at the heart of every project

مسك
MESC

# MESC

## PRODUCT CATLOGUE


لا إله إلا الله محمد رسول الله

# INDEX

# INDEX

مسك

MESC

Middle East Specialized Cables Company (MESC) is a leading manufacturer in the Middle East, specializing in LV Power, Instrumentation, Control, Data, Signaling, and Special Cables. With a strong reputation for excellence and a commitment to delivering high-quality products, MESC caters to the diverse needs of valued customers.

Since its establishment in 1993 as a privately owned company based in Riyadh, and then became a public listed company in 2008, MESC has become the market leader in Saudi Arabia (KSA). Expanding its operations to penetrate markets

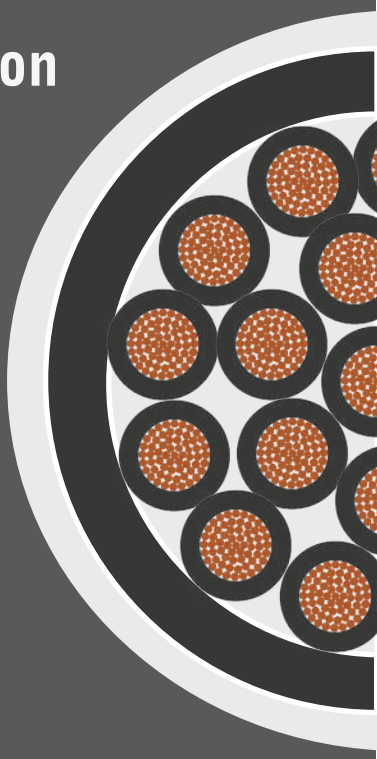
Across the gcc , Middle East, North Africa, Europe, and the USA, MESC has solidified its position as a reputable player in the industry.

In 2008, MESC established Middle East Specialized Cables (MESC) LLC, UAE, as a leading manufacturer and supplier of LV Power, Instrumentation, Control, Data, Signaling, and Special Cables. Located at Al Ghail Industrial Zone-NFZ in Ras Al Khaimah, UAE, MESC operates a state-of-the-art Production facility spread across 54,000 square meters, equipped with Production units, offices, Workshops and a Spacious Warehouse.

Since the commencement of its ultramodern production facility in 2010, inaugurated by His Highness Sheikh Saud bin Saqr Al Qasimi, Supreme Council Member and Ruler of Ras Al Khaimah, MESC has remained committed to delivering top-quality cables and meeting the stringent requirements of its esteemed clientele. MESC's product range covers all types and ranges of Low Voltage Cables, including Industrial, Instrumentation and Process Control Cable, Special Cable (BMS), Offshore Cables, Railway Signaling and Power Cables, and customized cables manufactured to meet customer specifications. MESC operates with clearly defined quality systems that are certified to ISO 9001, ISO 14001 and ISO 45001 ensuring total customer satisfaction through stringent quality control measures and policies. MESC's products are manufactured in accordance with international standards and undergo rigorous testing and certification processes by prestigious institutions. Approvals from renowned organizations such as TUV Saarland , BASEC (UK), KEMA (Netherlands), Saudi Arabia Standards Organization (SASO), UL (USA), VDE (Germany), and Warrington Fire Research (UK) , BVSAT (KSA) , DEKRA (Netherlands) , INTERTEK (USA) further validate MESC as a reliable and trusted partner in the field of specialized cables.

# WHY MESC?

- **"One Stop Shop" for Cables**
- **Customized solutions as per the customer's needs**
- **High quality products,competitive price and Reliable services**
- **Global "MESC" Brand recognition**
- **Proximity to the Mega Projects in the Region**



# MISSION & VISION

## Mission

To create long-term added value for our stakeholders through best-in-class products and services

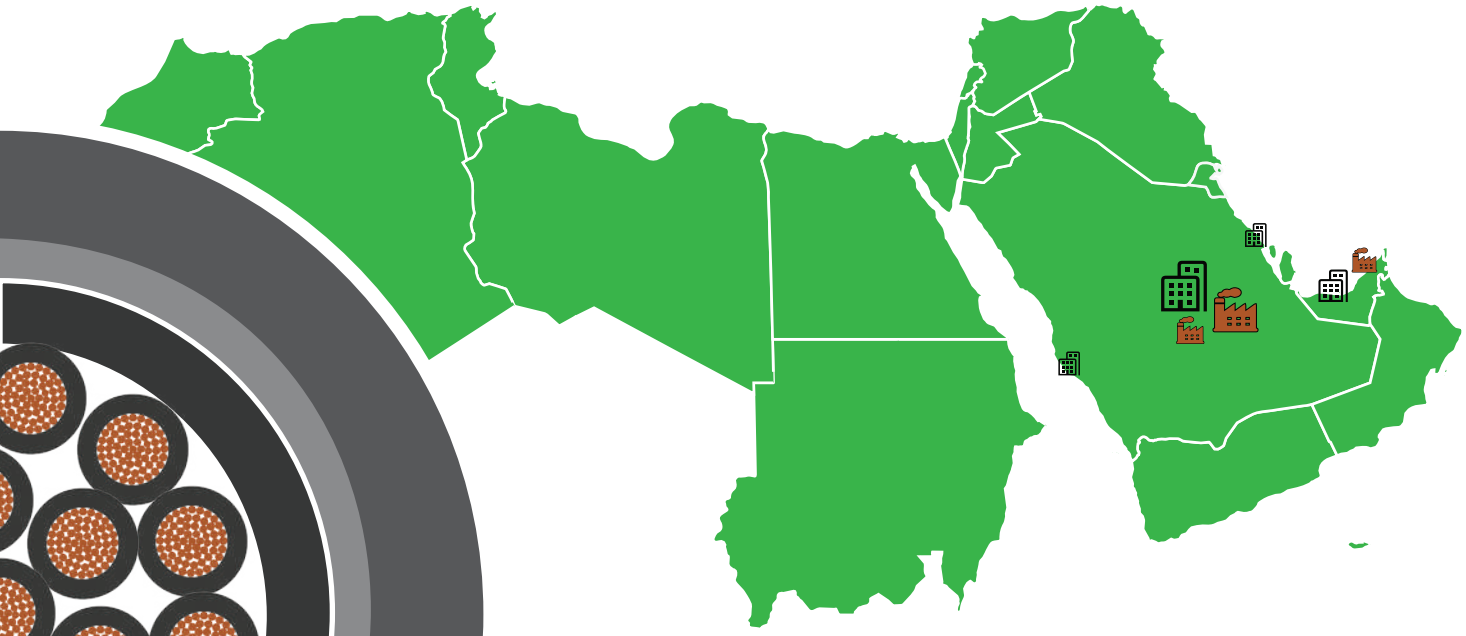
## Vision

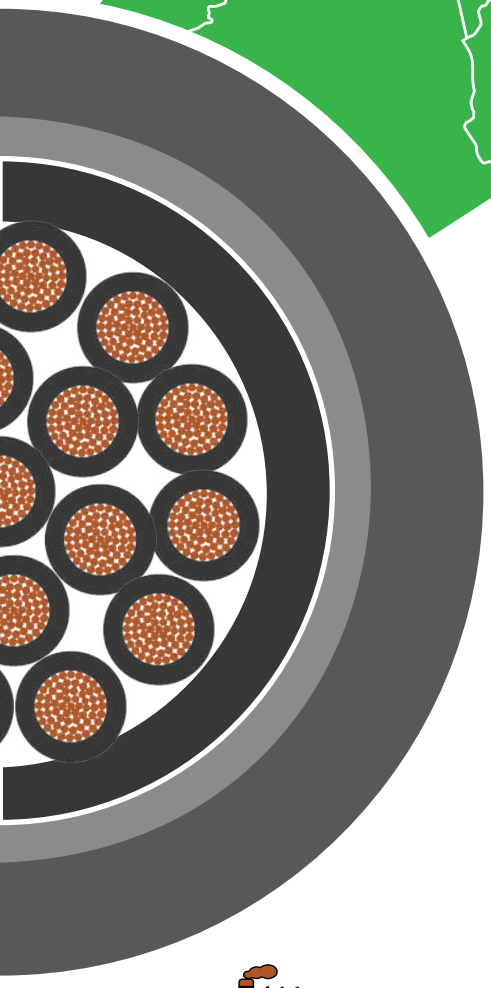
To be the trusted partner of choice for special cables and wire solutions

## Values

RISC - Q
Responsible
Integrity
Simplicity
Collabration
Quality

# FACTORIES & OFFICES LOCATIONS





## MANUFACTURING FACILITIES

**UAE**
**MESC Cable**
Location: Ras Al-Khaimah - UAE
PLN63, Al Ghail Industrial Zone - NFZ

**KSA**
**MESC Cable**
Location: Riyadh - KSA
2nd Industrial City, phase-3

**KSA**
**MESC PVC**
Location: Riyadh - KSA
2nd Industrial City, phase-2

## MESC SALES OFFICES

**UAE**
**Dubai Sales Office**
Shaik Zayed Road
Al Hawai Tower, 101
P.O. Box 73750,
Dubai, UAE
Tel: +97143437885
Fax: +97143437488
dubai.sales@MESCcables.com

**KSA**
**Riyadh Sales Office**
Salah Uddin Street,
Al Joud Building1 , Floor1
P.O. Box 11555 ,60536
Riyadh, KSA
Tel: +966114767373
Fax: +966114723192
general@MESCcables.com

**KSA**
**Eastern RGN Sales Office**
King Khalid Road,
NSH Towers ,5th Floor
P.O. Box 11555 ,60536
Khobar, KSA
Tel: +966114767373
Fax: +966114723192
general@MESCcables.com

**KSA**
**Western RGN Sales Office**
Baladiyah Street,
Al-Aziziya Center ,Office 32
P.O. Box 11555 ,60536
Jeddah, KSA
Tel: +966114767373
Fax: +966114723192
general@MESCcables.com

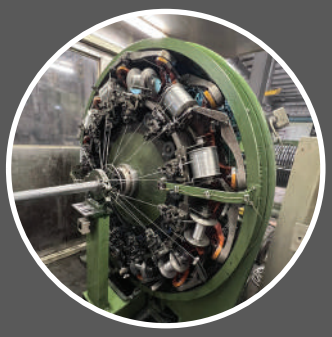
# PROCESSING CAPABILITIES

WIRE DRAWING

MICA TAPING


INSULATION

ARMOURING



BRAIDING

BEDDING SHEATHING

LEAD SHEATHING


TESTING

# MESC UAE FACILITY

**SINCE 2010**

# CERTIFIED BY

# CABLES CERTIFIED BY

# UTILITIES APPROVALS

# OUR CLIENTS


ADNOC
أدنوك
Saudi Aramco
أرامكو السعودية
Kuwait Oil Company
Bapco
بابكو
Petroleum Development Oman
QatarEnergy
قطر للطاقة
DALEEL PETROLEUM L.L.C.
TATWEER PETROLEUM
KNPC
DOLPHIN ENERGY
دولفين للطاقة
bp
QATARGAS
قطرغاز
sabic
سابك
Sadara
صدارة
MARAFIQ
SAMSUNG ENGINEERING
ABB
Saudi Electricity Company
الشركة السعودية للكهرباء
QAPCO
OQ
Borouge
بروج
sonatrach
Drydocks World
Reliance Industries Limited
BHEL
Enel
etisalat by e&
stc
CCTC
Combined Group Contracting Company (K.S.C.)
cpp
Galfar
جلفار
National Water Company
شركة المياه الوطنية
HYUNDAI ENGINEERING & CONSTRUCTION
TDE ThermoDesign
MCDERMOTT
Mechanical Engineering & Contracting Co. W.L.L.
NOV
NPCC
NATIONAL PETROLEUM CONSTRUCTION COMPANY
RAQ
SNC
sepcoIII
TECHNIP ENERGIES
MAIRE
wasl
وصل
Red Sea Global
Qiddiya
NEOM
نيوم
TotalEnergies
seplat
SAIPEM
jereh
Chevron
LARSEN & TOUBRO
YOKOGAWA
TECNICAS REUNIDAS
Cegelec
JGC
McDERMOTT
DOOSAN
Dodsal
Sinopec
ARCHIRODON
HEISCO
GS E&C
FLUOR
DAEWOO E&C
GOULDS PUMPS
SK E&C
Hanwha
IMCO
METITO
ALSTOM
TOYO ENGINEERING
BLACK CAT
SERVICES
ALTRAD
Petrofac
SIEMENS
PARSONS
Linde
DAELIM
FISIA ITALIMPIANTI
GRUPPO SALINI IMPREGILO
sesco
سسكو
MITSUBISHI
Alghanim INDUSTRIES
SNC·LAVALIN
BECHTEL
tyco
ALMEER
المير
MMEC
MANNESMANN
PETRONASH
TARGET

# SOFT DRAWN BARE COPPER CONDUCTOR

| | |
|---|---|
| APPLICATION | Soft Drawn : These conductors are used for earthing electrical systems where high conductivity is required. |

## CONSTRUCTION

| | |
|---|---|
| Soft Drawn | As per Class 2 of IEC-60228 |

### Soft Drawn

| SERIAL NO. | MESC MODEL NO. | SIZE mm2 | NO. OF STRANDS | Approx O. D. mm | Approx Weight Kg/Km | Max. D.C. Resistance Ω / Km |
|---|---|---|---|---|---|---|
| 1 | 9210-01C00100-U0008-00 | 1.0 | 7 | 1.29 | 9 | 18.1 |
| 2 | 9210-01C00150-U0008-00 | 1.5 | 7 | 1.59 | 14 | 12.1 |
| 3 | 9210-01C00250-U0008-00 | 2.5 | 7 | 2.01 | 22 | 7.41 |
| 4 | 9210-01C00400-U0008-00 | 4 | 7 | 2.55 | 36 | 4.61 |
| 5 | 9210-01C00600-U0008-00 | 6 | 7 | 3.10 | 52 | 3.08 |
| 6 | 9210-01C01000-U0008-00 | 10 | 7 | 4.05 | 88 | 1.83 |
| 7 | 9210-01C01600-U0008-00 | 16 | 7 | 5.1 | 138 | 1.15 |
| 8 | 9210-01C02500-U0008-00 | 25 | 7 | 6.4 | 213 | 0.727 |
| 9 | 9210-01C03500-U0008-00 | 35 | 7 | 7.5 | 300 | 0.524 |
| 10 | 9210-01C05000-U0008-00 | 50 | 19 | 8.9 | 406 | 0.387 |
| 11 | 9210-01C07000-U0008-00 | 70 | 19 | 10.7 | 592 | 0.268 |
| 12 | 9210-01C09500-U0008-00 | 95 | 19 | 12.6 | 815 | 0.193 |
| 13 | 9210-01C12000-U0008-00 | 120 | 37 | 14.2 | 1032 | 0.153 |
| 14 | 9210-01C15000-U0008-00 | 150 | 37 | 15.8 | 1278 | 0.124 |
| 15 | 9210-01C18500-U0008-00 | 185 | 37 | 17.6 | 1577 | 0.0991 |
| 16 | 9210-01C24000-U0008-00 | 240 | 37 | 20.1 | 2080 | 0.0754 |
| 17 | 9210-01C30000-U0008-00 | 300 | 61 | 22.2 | 2640 | 0.0601 |
| 18 | 9210-01C40000-U0008-00 | 400 | 61 | 25.0 | 3364 | 0.0470 |
| 19 | 9210-01C50000-U0008-00 | 500 | 61 | 27.9 | 4280 | 0.0366 |
| 20 | 9210-01C63000-U0008-00 | 630 | 91 | 31.5 | 5550 | 0.0283 |
| 21 | 9210-01C80000-U0008-00 | 800 | 91 | 37.0 | 7332 | 0.0221 |
| 22 | 9210-1C100000-U0008-00 | 1000 | 91 | 41.5 | 9223 | 0.0176 |

# HARD DRAWN BARE COPPER CONDUCTOR

APPLICATION

Hard Drawn : These conductors are used for overhead electrical transmission and distribution systems.

## CONSTRUCTION

Hard Drawn

As per BS 7884 & DIN 48201-1

### Hard Drawn

| SERIAL NO. | MESC MODEL NO. | SIZE mm2 | NO. OF STRANDS | Approx O. D. mm | Approx Weight Kg/Km | Calculated Breaking Load KN |
|---|---|---|---|---|---|---|
| 1 | 9110-01C01000-U0008-00 | 10 | 7 | 4.05 | 88 | 4.02 |
| 2 | 9110-01C01600-U0008-00 | 16 | 7 | 5.10 | 138 | 6.37 |
| 3 | 9110-01C02500-U0008-00 | 25 | 7 | 6.42 | 213 | 9.72 |
| 4 | 9110-01C03500-U0008-00 | 35 | 7 | 7.56 | 300 | 13.78 |
| 5 | 9110-01C05000-U0008-00 | 50 | 19 | 8.9 | 406 | 19.39 |
| 6 | 9110-01C07000-U0008-00 | 70 | 19 | 10.7 | 592 | 26.39 |
| 7 | 9110-01C09500-U0008-00 | 95 | 19 | 12.6 | 815 | 37.40 |
| 8 | 9110-01C12000-U0008-00 | 120 | 37 | 14.2 | 1032 | 46.91 |
| 9 | 9110-01C15000-U0008-00 | 150 | 37 | 15.8 | 1278 | 58.99 |
| 10 | 9110-01C18500-U0008-00 | 185 | 37 | 17.6 | 1577 | 72.83 |
| 11 | 9110-01C24000-U0008-00 | 240 | 37 | 20.1 | 2080 | 93.6 |
| 12 | 9110-01C30000-U0008-00 | 300 | 61 | 22.2 | 2640 | 118 |

**Packing :** Delivered in standard length of 500/1000 meters on wooden reels. Higher size with more length steel drum on request is available

# PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31

| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed stranded copper class 2 as per IEC 60228 |
| Insulation | PVC Type TI 1 Rated 70°C as per BS EN 50363-3. |
| Printing Text(Example) | Example: MESC 0.5mm2 CU/PVC 300/500 V H05V-R BS EN 50525-2-31 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/500V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

Non-Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/ km) |
|---|---|---|---|---|---|---|
| 1 | 7111-01C00050-U0BK8-00 | 0.5 | 7 | 0.6 | 2.1 | 9 |
| 2 | 7111-01C00075-U0BK8-00 | 0.75 | 7 | 0.6 | 2.3 | 13 |
| 3 | 7111-01C00100-U0BK8-00 | 1.0 | 7 | 0.6 | 2.5 | 15 |

**Available Colors:** "BK" = Black, BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

Packing:

**Packing :** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227

| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed stranded copper class 2 as per IEC 60228. |
| Insulation | PVC Type TI 1 Rated 70°C as per BS EN 50363-3. |
| Printing Text(Example) | Example: MESC 1.5mm2 CU/PVC 450/750 V H07V-R BS EN 50525-2-31 60227 IEC 01 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 450/750V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

Non-Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/ km) |
|---|---|---|---|---|---|---|
| 1 | 7111-01C00150-U0BK8-00 | 1.5 | 7 | 0.7 | 3.1 | 22 |
| 2 | 7111-01C00250-U0BK8-00 | 2.5 | 7 | 0.8 | 3.7 | 34 |
| 3 | 7111-01C00400-U0BK8-00 | 4 | 7 | 0.8 | 4.2 | 51 |
| 4 | 7111-01C00600-U0BK8-00 | 6 | 7 | 0.8 | 4.8 | 71 |
| 5 | 7111-01C01000-U0BK8-00 | 10 | 7 | 1.0 | 6.1 | 119 |
| 6 | 7111-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 7.2 | 170 |
| 7 | 7111-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.9 | 285 |
| 8 | 7111-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 10.1 | 380 |
| 9 | 7111-01C05000-U0BK8-00 | 50 | 19 | 1.4 | 11.8 | 509 |
| 10 | 7111-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 13.6 | 720 |
| 11 | 7111-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 16.0 | 990 |
| 12 | 7111-01C12000-U0BK8-00 | 120 | 37 | 1.6 | 17.6 | 1227 |
| 13 | 7111-01C15000-U0BK8-00 | 150 | 37 | 1.8 | 19.5 | 1510 |
| 14 | 7111-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 21.8 | 1890 |
| 15 | 7111-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 24.4 | 2385 |
| 16 | 7111-01C30000-U0BK8-00 | 300 | 61 | 2.4 | 27.2 | 2990 |
| 17 | 7111-01C40000-U0BK8-00 | 400 | 61 | 2.6 | 30.2 | 3750 |
| 18 | 7111-01C50000-U0BK8-00 | 500 | 61 | 2.8 | 34.0 | 4750 |
| 19 | 7111-01C63000-U0BK8-00 | 630 | 91 | 2.8 | 38.0 | 6100 |
| 20 | 7111-01C80000-U0BK8-00 | 800 | 91 | 2.8 | 42.7 | 7900 |
| 21 | 7111-1C100000-U0BK8-00 | 1000 | 91 | 3.0 | 47.6 | 9900 |

## TABLE:

Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/ km) |
|---|---|---|---|---|---|---|
| 1 | 71D1-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 6.6 | 165 |
| 2 | 71D1-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.2 | 265 |
| 3 | 71D1-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 9.3 | 355 |
| 4 | 71D1-01C05000-U0BK8-00 | 50 | 7 | 1.4 | 11.0 | 485 |
| 5 | 71D1-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 12.6 | 675 |
| 6 | 71D1-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 14.8 | 935 |
| 7 | 71D1-01C12000-U0BK8-00 | 120 | 19 | 1.6 | 16.2 | 1165 |
| 8 | 71D1-01C15000-U0BK8-00 | 150 | 19 | 1.8 | 18.1 | 1420 |
| 9 | 71D1-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 20.1 | 1785 |
| 10 | 71D1-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 22.7 | 2335 |
| 11 | 71D1-01C30000-U0BK8-00 | 300 | 37 | 2.4 | 25.3 | 2890 |
| 12 | 71D1-01C40000-U0BK8-00 | 400 | 61 | 2.6 | 28.8 | 3695 |
| 13 | 71D1-01C50000-U0BK8-00 | 500 | 61 | 2.8 | 32.0 | 4715 |
| 14 | 71D1-01C63000-U0BK8-00 | 630 | 61 | 2.8 | 35.5 | 6060 |
| 15 | 71D1-01C80000-U0BK8-00 | 800 | 61 | 2.8 | 39.3 | 7850 |
| 16 | 71D1-1C100000-U0BK8-00 | 1000 | 61 | 3.0 | 44.3 | 9845 |

**Available Colors:** Available Colors: "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing**: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

*IEC 60227-1 standard is applicable for size 1.5mm2 to 400 mm2.

Above 400mm2 are covered in only BS EN 50525-2-31, hence printing shall not be mark with "60227 IEC 01".

# PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31

| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for to earth DC when used for fixed installation inside appliances, switch gear and control gear. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed stranded copper class 2 as per IEC 60228. |
| Insulation | PVC Type TI 3 Rated 90°C as per BS EN 50363-3. |
| Printing Text (Example) | MESC 0.5mm2 CU/PVC 300/500V H05V2-K BS EN 50525-2-31 60227 IEC 08 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 300/500V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

Non-Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| 1 | 7C11-01C00050-U0BK8-00 | 0.5 | 7 | 0.6 | 2.1 | 9 |
| 2 | 7C11-01C00075-U0BK8-00 | 0.75 | 7 | 0.6 | 2.3 | 13 |
| 3 | 7C11-01C00100-U0BK8-00 | 1.0 | 7 | 0.6 | 2.5 | 15 |

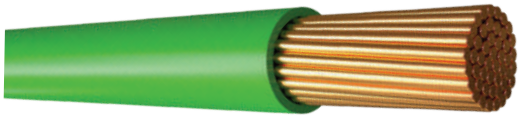
**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing**: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

**Special Features**: These cables are also available with rated Temperature 105°C according to UL\CSA standards.

# PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31



| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed stranded copper class 2 as per IEC 60228. |
| Insulation | PVC Type TI 3 Rated 90°C as per BS EN 50363-3. |
| Printing Text (Example) | MESC 1.5mm2 CU/PVC 450/750 V H07V2-R BS EN 50525-2-31 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 450/750V |
| Flame Retardant | IEC 60332-1-2 |

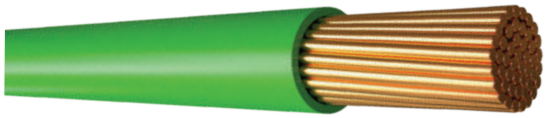
## TABLE:

Non-Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| 1 | 7C11-01C00150-U0BK8-00 | 1.5 | 7 | 0.7 | 3.1 | 22 |
| 2 | 7C11-01C00250-U0BK8-00 | 2.5 | 7 | 0.8 | 3.7 | 34 |
| 3 | 7C11-01C00400-U0BK8-00 | 4 | 7 | 0.8 | 4.2 | 51 |
| 4 | 7C11-01C00600-U0BK8-00 | 6 | 7 | 0.8 | 4.8 | 71 |
| 5 | 7C11-01C01000-U0BK8-00 | 10 | 7 | 1.0 | 6.1 | 119 |
| 6 | 7C11-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 7.2 | 170 |
| 7 | 7C11-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.9 | 285 |
| 8 | 7C11-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 10.1 | 380 |
| 9 | 7C11-01C05000-U0BK8-00 | 50 | 19 | 1.4 | 11.8 | 509 |
| 10 | 7C11-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 13.6 | 720 |
| 11 | 7C11-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 16.0 | 990 |
| 12 | 7C11-01C12000-U0BK8-00 | 120 | 37 | 1.6 | 17.6 | 1227 |
| 13 | 7C11-01C15000-U0BK8-00 | 150 | 37 | 1.8 | 19.5 | 1510 |
| 14 | 7C11-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 21.8 | 1890 |
| 15 | 7C11-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 24.4 | 2385 |
| 16 | 7C11-01C30000-U0BK8-00 | 300 | 61 | 2.4 | 27.2 | 2990 |
| 17 | 7C11-01C40000-U0BK8-00 | 400 | 61 | 2.6 | 30.2 | 3750 |
| 18 | 7C11-01C50000-U0BK8-00 | 500 | 61 | 2.8 | 34.0 | 4750 |
| 19 | 7C11-01C63000-U0BK8-00 | 630 | 91 | 2.8 | 38.0 | 6100 |
| 20 | 7C11-01C80000-U0BK8-00 | 800 | 91 | 2.8 | 42.7 | 7900 |
| 21 | 7C11-1C100000-U0BK8-00 | 1000 | 91 | 3.0 | 47.6 | 9900 |

## TABLE:

Compacted Circular Conductor:



| SERIAL NO. | MESC MODEL NO | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/ km) |
|---|---|---|---|---|---|---|
| 1 | 7CD1-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 6.6 | 165 |
| 2 | 7CD1-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.2 | 265 |
| 3 | 7CD1-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 9.3 | 355 |
| 4 | 7CD1-01C05000-U0BK8-00 | 50 | 7 | 1.4 | 11.0 | 485 |
| 5 | 7CD1-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 12.6 | 675 |
| 6 | 7CD1-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 14.8 | 935 |
| 7 | 7CD1-01C12000-U0BK8-00 | 120 | 19 | 1.6 | 16.2 | 1165 |
| 8 | 7CD1-01C15000-U0BK8-00 | 150 | 19 | 1.8 | 18.1 | 1420 |
| 9 | 7CD1-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 20.1 | 1785 |
| 10 | 7CD1-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 22.7 | 2335 |
| 11 | 7CD1-01C30000-U0BK8-00 | 300 | 37 | 2.4 | 25.3 | 2890 |
| 12 | 7CD1-01C40000-U0BK8-00 | 400 | 61 | 2.6 | 28.8 | 3695 |
| 13 | 7CD1-01C50000-U0BK8-00 | 500 | 61 | 2.8 | 32.0 | 4715 |
| 14 | 7CD1-01C63000-U0BK8-00 | 630 | 61 | 2.8 | 35.5 | 6060 |
| 15 | 7CD1-01C80000-U0BK8-00 | 800 | 61 | 2.8 | 39.3 | 7850 |
| 16 | 7CD1-1C100000-U0BK8-00 | 1000 | 61 | 3.0 | 44.3 | 9845 |

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

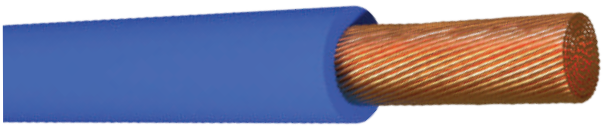
**Special Features:** These cables are also available with rated Temperature 105°C according to UL\CSA standards.

*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.

The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.

# FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3



| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228 |
| Insulation | PVC Type TI 1 Rated 70$^{0}$C as per BS EN 50363-3. |
| Printing Text (Example) | MESC 0.5mm2 CU/PVC 300/500V H05V-K BS EN 50525-2-31 60227 IEC 06 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/500V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE;

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|
| 1 | 5181-01C00050-U0BK8-00 | 0.5 | 0.6 | 2.2 | 9 |
| 2 | 5181-01C00075-U0BK8-00 | 0.75 | 0.6 | 2.4 | 12 |
| 3 | 5181-01C00100-U0BK8-00 | 1.0 | 0.6 | 2.6 | 15 |

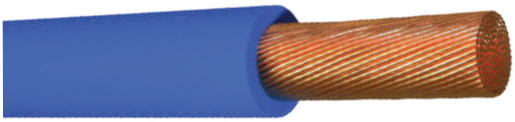
**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.
The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.

# FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3



| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 1 Rated 70°C as per BS EN 50363-3. |
| Printing Text (Example) | MESC 1.5mm2 CU/PVC 450/750 V H07V-K BS EN 50525-2-31 60227 IEC 02 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 450/750V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|
| 1 | 5181-01C00150-U0BK8-00 | 1.5 | 0.7 | 3.0 | 21 |
| 2 | 5181-01C00250-U0BK8-00 | 2.5 | 0.8 | 3.6 | 33 |
| 3 | 5181-01C00400-U0BK8-00 | 4 | 0.8 | 4.2 | 49 |
| 4 | 5181-01C00600-U0BK8-00 | 6 | 0.8 | 4.8 | 69 |
| 5 | 5181-01C01000-U0BK8-00 | 10 | 1.0 | 6.1 | 116 |
| 6 | 5181-01C01600-U0BK8-00 | 16 | 1.0 | 7.5 | 173 |
| 7 | 5181-01C02500-U0BK8-00 | 25 | 1.2 | 9.6 | 266 |
| 8 | 5181-01C03500-U0BK8-00 | 35 | 1.2 | 10.9 | 364 |
| 9 | 5181-01C05000-U0BK8-00 | 50 | 1.4 | 13.0 | 520 |
| 10 | 5181-01C07000-U0BK8-00 | 70 | 1.4 | 15.2 | 725 |
| 11 | 5181-01C09500-U0BK8-00 | 95 | 1.6 | 17.4 | 925 |
| 12 | 5181-01C12000-U0BK8-00 | 120 | 1.6 | 19.2 | 1175 |
| 13 | 5181-01C15000-U0BK8-00 | 150 | 1.8 | 21.5 | 1475 |
| 14 | 5181-01C18500-U0BK8-00 | 185 | 2.0 | 24.0 | 1850 |
| 15 | 5181-01C24000-U0BK8-00 | 240 | 2.2 | 27.1 | 2385 |

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.

The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.

# FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3

| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 3 Rated 90°C as per BS EN 50363-3. |
| Printing Text (Example) | MESC 0.5mm2 CU/PVC 300/500V H05V2-K BS EN 50525-2-31 60227 IEC 08 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 300/500V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|
| 1 | 5C81-01C00050-U0BK8-00 | 0.5 | 0.6 | 2.2 | 9 |
| 2 | 5C81-01C00075-U0BK8-00 | 0.75 | 0.6 | 2.4 | 12 |
| 3 | 5C81-01C00100-U0BK8-00 | 1.0 | 0.6 | 2.6 | 15 |

**Available Colors:** : "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

Special Features: These cables are also available with rated Temperature 105°C according to UL\CSA standards

*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.

The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.

# FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3

| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228 |
| Insulation | PVC Type TI 3 Rated 90°C as per BS EN 50363-3. |
| Printing Text (Example) | MESC 1.5mm2 CU/PVC 450/750 V H07V2-K BS EN 50525-2-31 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 450/750V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO | SIZE (mm2) | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|
| 1 | 5C81-01C00150-U0BK8-00 | 1.5 | 0.7 | 3.0 | 21 |
| 2 | 5C81-01C00250-U0BK8-00 | 2.5 | 0.8 | 3.6 | 33 |
| 3 | 5C81-01C00400-U0BK8-00 | 4 | 0.8 | 4.2 | 49 |
| 4 | 5C81-01C00600-U0BK8-00 | 6 | 0.8 | 4.8 | 69 |
| 5 | 5C81-01C01000-U0BK8-00 | 10 | 1.0 | 6.1 | 116 |
| 6 | 5C81-01C01600-U0BK8-00 | 16 | 1.0 | 7.5 | 173 |
| 7 | 5C81-01C02500-U0BK8-00 | 25 | 1.2 | 9.6 | 266 |
| 8 | 5C81-01C03500-U0BK8-00 | 35 | 1.2 | 10.9 | 364 |
| 9 | 5C81-01C05000-U0BK8-00 | 50 | 1.4 | 13.0 | 520 |
| 10 | 5C81-01C07000-U0BK8-00 | 70 | 1.4 | 15.2 | 725 |
| 11 | 5C81-01C09500-U0BK8-00 | 95 | 1.6 | 17.4 | 925 |
| 12 | 5C81-01C12000-U0BK8-00 | 120 | 1.6 | 19.2 | 1175 |
| 13 | 5C81-01C15000-U0BK8-00 | 150 | 1.8 | 21.5 | 1475 |
| 14 | 5C81-01C18500-U0BK8-00 | 185 | 2.0 | 24.0 | 1850 |
| 15 | 5C81-01C24000-U0BK8-00 | 240 | 2.2 | 27.1 | 2385 |

**Available Colors:** : "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

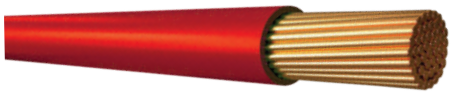
Special Features: These cables are also available with rated Temperature 105°C according to UL\CSA standards.

*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.

The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.

# HALOGEN FREE CROSSLINKED INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-3-41



| | |
|---|---|
| APPLICATION | These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear, where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed stranded copper class 2 as per IEC 60228 |
| Insulation | Flame Retardant Zero Halogen Cross-linked Compound Type EI-5 as per BSEN50363-5 |
| Printing Text (Example) | MESC 1.5mm2 CU/HFFR XLPE 450/750 V H07Z-R BS EN 50525-3-41 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 450/750V |
| Flame Retardant | IEC 60332-1-2 |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |
| Halogen Acid | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |

## TABLE:

Non-Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| 1 | 711X-01C00150-U0BK8-00 | 1.5 | 7 | 0.7 | 3.1 | 20 |
| 2 | 711X-01C00250-U0BK8-00 | 2.5 | 7 | 0.8 | 3.7 | 30 |
| 3 | 711X-01C00400-U0BK8-00 | 4 | 7 | 0.8 | 4.2 | 48 |
| 4 | 711X-01C00600-U0BK8-00 | 6 | 7 | 0.8 | 4.8 | 68 |
| 5 | 711X-01C01000-U0BK8-00 | 10 | 7 | 1.0 | 6.1 | 115 |
| 6 | 711X-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 7.2 | 160 |
| 7 | 711X-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.9 | 275 |
| 8 | 711X-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 10.1 | 370 |
| 9 | 711X-01C05000-U0BK8-00 | 50 | 19 | 1.4 | 11.8 | 498 |
| 10 | 711X-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 13.6 | 708 |
| 11 | 711X-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 16.0 | 978 |
| 12 | 711X-01C12000-U0BK8-00 | 120 | 37 | 1.6 | 17.6 | 1218 |
| 13 | 711X-01C15000-U0BK8-00 | 150 | 37 | 1.8 | 19.5 | 1500 |
| 14 | 711X-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 21.8 | 1880 |
| 15 | 711X-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 24.4 | 2375 |
| 16 | 711X-01C30000-U0BK8-00 | 300 | 61 | 2.4 | 27.2 | 2975 |
| 17 | 711X-01C40000-U0BK8-00 | 400 | 61 | 2.6 | 30.2 | 3740 |
| 18 | 711X-01C50000-U0BK8-00 | 500 | 61 | 2.8 | 34.0 | 4735 |
| 19 | 711X-01C63000-U0BK8-00 | 630 | 91 | 2.8 | 38.0 | 6085 |
| 20 | 711X-01C80000-U0BK8-00 | 800 | 91 | 2.8 | 42.7 | 7880 |
| 21 | 711X-1C100000-U0BK8-00 | 1000 | 91 | 3.0 | 47.6 | 9880 |

# HALOGEN FREE CROSSLINKED INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-3-41

**TABLE:**

Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| 1 | 71DX-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 6.6 | 160 |
| 2 | 71DX-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.2 | 260 |
| 3 | 71DX-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 9.3 | 350 |
| 4 | 71DX-01C05000-U0BK8-00 | 50 | 7 | 1.4 | 11.0 | 480 |
| 5 | 71DX-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 12.6 | 670 |
| 6 | 71DX-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 14.8 | 930 |
| 7 | 71DX-01C12000-U0BK8-00 | 120 | 19 | 1.6 | 16.2 | 1155 |
| 8 | 71DX-01C15000-U0BK8-00 | 150 | 19 | 1.8 | 18.1 | 1410 |
| 9 | 71DX-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 20.1 | 1775 |
| 10 | 71DX-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 22.7 | 2320 |
| 11 | 71DX-01C30000-U0BK8-00 | 300 | 37 | 2.4 | 25.3 | 2870 |
| 12 | 71DX-01C40000-U0BK8-00 | 400 | 61 | 2.6 | 28.8 | 3680 |
| 13 | 71DX-01C50000-U0BK8-00 | 500 | 61 | 2.8 | 32.0 | 4700 |
| 14 | 71DX-01C63000-U0BK8-00 | 630 | 61 | 2.8 | 35.5 | 6045 |
| 15 | 71DX-01C80000-U0BK8-00 | 800 | 61 | 2.8 | 39.3 | 7830 |
| 16 | 71DX-1C100000-U0BK8-00 | 1000 | 61 | 3.0 | 44.3 | 9830 |

**Available Colors:** :"BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

*BSEN 50252-3-41 includes sizes from 1.5 to 630 sqmm.

The sizes above 630 sqmm shall be 'GEN TO BSEN 50525-3-41'.

# PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: GEN. TO BS 6231 (TYPE BU)

| | |
|---|---|
| APPLICATION | These cables are useful for use in domestic premises, kitchens and offices for light duties for light portable appliances. Not suitable for cooking or heating appliances. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain solid annealed copper class 1 as per BS EN 60228. |
| Insulation | PVC Type TI 1 Rated $70^0$C as per BS EN 50363-3. |
| Printing Text (Example) | Example: TYPE BU 1.5 600/1000V MESC YEAR |

## TECHNICAL DATA:

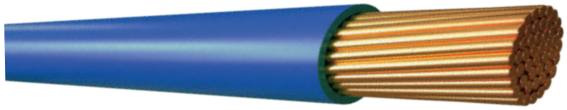
| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 600/1000V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| 1 | 7A61-01C00100-U0BK8-00 | 1.0 | 1 | 0.8 | 2.8 | 17 |
| 2 | 7A61-01C00150-U0BK8-00 | 1.5 | 1 | 0.8 | 3.1 | 22 |
| 3 | 7A61-01C00250-U0BK8-00 | 2.5 | 1 | 0.8 | 3.5 | 33 |

# PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: GEN. TO BS 6231 (TYPE BR)



| | |
|---|---|
| APPLICATION | These cables are useful for use in domestic premises, kitchens and offices for light duties for light portable appliances. These cables can be used in applications where extra flexibility is required provided there is no danger of damage. Not suitable for cooking or heating appliances. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed stranded copper class 2 as per BS EN 60228. |
| Insulation | PVC Type TI 1 Rated 70°C as per BS EN 50363-3. |
| Printing Text (Example) | Example: TYPE BR 1.5 600/1000V MESC YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 600/1000V |
| Flame Retardant | IEC 60332-1-2 |

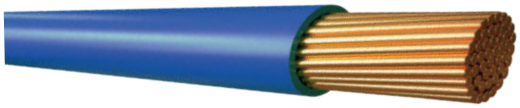
## TABLE:

Non-Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| 1 | 7A11-01C00100-U0BK8-00 | 1.0 | 7 | 0.8 | 2.9 | 18 |
| 2 | 7A11-01C00150-U0BK8-00 | 1.5 | 7 | 0.8 | 3.1 | 22 |
| 3 | 7A11-01C00250-U0BK8-00 | 2.5 | 7 | 0.8 | 3.7 | 34 |
| 4 | 7A11-01C00400-U0BK8-00 | 4 | 7 | 0.8 | 4.2 | 51 |
| 5 | 7A11-01C00600-U0BK8-00 | 6 | 7 | 0.8 | 4.8 | 71 |
| 6 | 7A11-01C01000-U0BK8-00 | 10 | 7 | 1.0 | 6.1 | 119 |
| 7 | 7A11-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 7.2 | 170 |
| 8 | 7A11-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.9 | 285 |
| 9 | 7A11-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 10.1 | 380 |
| 10 | 7A11-01C05000-U0BK8-00 | 50 | 19 | 1.4 | 11.8 | 509 |
| 11 | 7A11-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 13.6 | 720 |
| 12 | 7A11-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 16.0 | 990 |
| 13 | 7A11-01C12000-U0BK8-00 | 120 | 37 | 1.6 | 17.6 | 1227 |
| 14 | 7A11-01C15000-U0BK8-00 | 150 | 37 | 1.8 | 19.5 | 1510 |
| 15 | 7A11-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 21.8 | 1890 |
| 16 | 7A11-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 24.4 | 2385 |

## TABLE:

Compacted Circular Conductor:



| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/ km) |
|---|---|---|---|---|---|---|
| 1 | 7AD1-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 6.6 | 165 |
| 2 | 7AD1-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.2 | 265 |
| 3 | 7AD1-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 9.3 | 355 |
| 4 | 7AD1-01C05000-U0BK8-00 | 50 | 7 | 1.4 | 11.0 | 485 |
| 5 | 7AD1-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 12.6 | 675 |
| 6 | 7AD1-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 14.8 | 935 |
| 7 | 7AD1-01C12000-U0BK8-00 | 120 | 19 | 1.6 | 16.2 | 1165 |
| 8 | 7AD1-01C15000-U0BK8-00 | 150 | 19 | 1.8 | 18.1 | 1420 |
| 9 | 7AD1-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 20.1 | 1785 |
| 10 | 7AD1-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 22.7 | 2335 |

**Available Colors:** :: "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: GEN. TO BS 6231 (TYPE CU)

| | |
|---|---|
| APPLICATION | These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain solid annealed copper class 1 as per BS EN 60228. |
| Insulation | PVC Type TI 3 Rated 90°C as per BS EN 50363-3. |
| Printing Text (Example) | Example: TYPE CU 1.5 HEAT RESISTING 90 600/1000V MESC YEAR |

## TECHNICAL DATA:

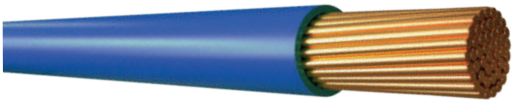
| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/ km) |
|---|---|---|---|---|---|---|
| 1 | 7B61-01C00100-U0BK8-00 | 1.0 | 1 | 0.8 | 2.8 | 17 |
| 2 | 7B61-01C00150-U0BK8-00 | 1.5 | 1 | 0.8 | 3.1 | 22 |
| 3 | 7B61-01C00250-U0BK8-00 | 2.5 | 1 | 0.8 | 3.5 | 33 |

# PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: GEN. TO BS 6231 (TYPE CR)



| | |
|---|---|
| APPLICATION | These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed stranded copper class 2 as per BS EN 60228. |
| Insulation | PVC Type TI 3 Rated 90°C as per BS EN 50363-3. |
| Printing Text (Example) | Example: TYPE CR 1.5 HEAT RESISTING 90 600/1000V MESC YEAR |

## TECHNICAL DATA:

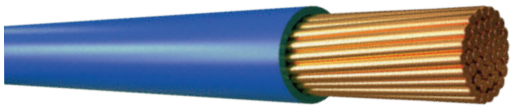
| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

Non - Compacted Circular Conductor:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| 1 | 7B11-01C00100-U0BK8-00 | 1.0 | 7 | 0.8 | 2.9 | 18 |
| 2 | 7B11-01C00150-U0BK8-00 | 1.5 | 7 | 0.8 | 3.1 | 22 |
| 3 | 7B11-01C00250-U0BK8-00 | 2.5 | 7 | 0.8 | 3.7 | 34 |
| 4 | 7B11-01C00400-U0BK8-00 | 4 | 7 | 0.8 | 4.2 | 51 |
| 5 | 7B11-01C00600-U0BK8-00 | 6 | 7 | 0.8 | 4.8 | 71 |
| 6 | 7B11-01C01000-U0BK8-00 | 10 | 7 | 1.0 | 7.2 | 119 |
| 7 | 7B11-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 7.2 | 170 |
| 8 | 7B11-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.9 | 285 |
| 9 | 7B11-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 10.1 | 380 |
| 10 | 7B11-01C05000-U0BK8-00 | 50 | 19 | 1.4 | 11.8 | 509 |
| 11 | 7B11-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 13.6 | 720 |
| 12 | 7B11-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 16.0 | 990 |
| 13 | 7B11-01C12000-U0BK8-00 | 120 | 37 | 1.6 | 17.6 | 1227 |
| 14 | 7B11-01C15000-U0BK8-00 | 150 | 37 | 1.8 | 19.5 | 1510 |
| 15 | 7B11-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 21.8 | 1890 |
| 16 | 7B11-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 24.4 | 2385 |

## TABLE:
Compacted Circular Conductor:



| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| 1 | 7BD1-01C01600-U0BK8-00 | 16 | 7 | 1.0 | 6.6 | 165 |
| 2 | 7BD1-01C02500-U0BK8-00 | 25 | 7 | 1.2 | 8.2 | 265 |
| 3 | 7BD1-01C03500-U0BK8-00 | 35 | 7 | 1.2 | 9.3 | 355 |
| 4 | 7BD1-01C05000-U0BK8-00 | 50 | 7 | 1.4 | 11.0 | 485 |
| 5 | 7BD1-01C07000-U0BK8-00 | 70 | 19 | 1.4 | 12.6 | 675 |
| 6 | 7BD1-01C09500-U0BK8-00 | 95 | 19 | 1.6 | 14.8 | 935 |
| 7 | 7BD1-01C12000-U0BK8-00 | 120 | 19 | 1.6 | 16.2 | 1165 |
| 8 | 7BD1-01C15000-U0BK8-00 | 150 | 19 | 1.8 | 18.1 | 1420 |
| 9 | 7BD1-01C18500-U0BK8-00 | 185 | 37 | 2.0 | 20.1 | 1785 |
| 10 | 7BD1-01C24000-U0BK8-00 | 240 | 37 | 2.2 | 22.7 | 2335 |

**Available Colors:** :"BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS 6231 TYPE BK

| | |
|---|---|
| APPLICATION | These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 1 Rated 70°C as per BS EN 50363-3. |
| Printing Text (Example) | MESC 1.5mm2 CU/PVC 600/1000 V TYPE BK BS 6231 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 600/1000 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

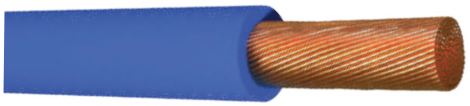
| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|
| 1 | 5B81-01C00050-U0BK8-00 | 0.5 | 0.8 | 2.6 | 13 |
| 2 | 5B81-01C00075-U0BK8-00 | 0.75 | 0.8 | 2.8 | 17 |
| 3 | 5B81-01C00100-U0BK8-00 | 1.0 | 0.8 | 3.0 | 20 |
| 4 | 5B81-01C00150-U0BK8-00 | 1.5 | 0.8 | 3.2 | 24 |
| 5 | 5B81-01C00250-U0BK8-00 | 2.5 | 0.8 | 3.7 | 35 |
| 6 | 5B81-01C00400-U0BK8-00 | 4 | 0.8 | 4.2 | 51 |
| 7 | 5B81-01C00600-U0BK8-00 | 6 | 0.8 | 4.8 | 71 |
| 8 | 5B81-01C01000-U0BK8-00 | 10 | 1.0 | 6.2 | 119 |
| 9 | 5B81-01C01600-U0BK8-00 | 16 | 1.0 | 7.6 | 179 |
| 10 | 5B81-01C02500-U0BK8-00 | 25 | 1.2 | 9.7 | 277 |
| 11 | 5B81-01C03500-U0BK8-00 | 35 | 1.2 | 11.1 | 375 |
| 12 | 5B81-01C05000-U0BK8-00 | 50 | 1.4 | 13.1 | 535 |
| 13 | 5B81-01C07000-U0BK8-00 | 70 | 1.4 | 15.3 | 755 |
| 14 | 5B81-01C09500-U0BK8-00 | 95 | 1.6 | 17.5 | 950 |
| 15 | 5B81-01C12000-U0BK8-00 | 120 | 1.6 | 19.3 | 1195 |
| 16 | 5B81-01C15000-U0BK8-00 | 150 | 1.8 | 21.6 | 1505 |
| 17 | 5B81-01C18500-U0BK8-00 | 185 | 2.0 | 24.1 | 1865 |
| 18 | 5B81-01C24000-U0BK8-00 | 240 | 2.2 | 27.2 | 2400 |

**Available Colors:** :"BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS 6231 TYPE CK (*TRI-RATED CABLE)



| | |
|---|---|
| APPLICATION | These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC rated 105°C. |
| Printing Text (Example) | **TYPE CK**<br>MESC 1.5mm2 CU/PVC 600/1000 V TYPE CK HEAT RESISTING 90 BS 6231 YEAR<br>**TRI-RATED**<br>MESC TRI-RATED PANEL WIRE CU/PVC 1.5 SQMM GEN TO BS 6231 105C 600/1000V YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000 V |
| Flame Retardant | IEC 60332-1-2 |

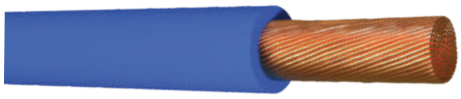
## TABLE:

TYPE CK

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|
| 1 | 5781-01C00050-U0BK8-00 | 0.5 | 0.8 | 2.6 | 13 |
| 2 | 5781-01C00075-U0BK8-00 | 0.75 | 0.8 | 2.8 | 17 |
| 3 | 5781-01C00100-U0BK8-00 | 1.0 | 0.8 | 3.0 | 20 |
| 4 | 5781-01C00150-U0BK8-00 | 1.5 | 0.8 | 3.2 | 24 |
| 5 | 5781-01C00250-U0BK8-00 | 2.5 | 0.8 | 3.7 | 35 |
| 6 | 5781-01C00400-U0BK8-00 | 4 | 0.8 | 4.2 | 51 |
| 7 | 5781-01C00600-U0BK8-00 | 6 | 0.8 | 4.8 | 71 |
| 8 | 5781-01C01000-U0BK8-00 | 10 | 1.0 | 6.2 | 119 |
| 9 | 5781-01C01600-U0BK8-00 | 16 | 1.0 | 7.6 | 179 |
| 10 | 5781-01C02500-U0BK8-00 | 25 | 1.2 | 9.7 | 277 |
| 11 | 5781-01C03500-U0BK8-00 | 35 | 1.2 | 11.1 | 375 |
| 12 | 5781-01C05000-U0BK8-00 | 50 | 1.4 | 13.1 | 535 |
| 13 | 5781-01C07000-U0BK8-00 | 70 | 1.4 | 15.3 | 755 |
| 14 | 5781-01C09500-U0BK8-00 | 95 | 1.6 | 17.5 | 950 |
| 15 | 5781-01C12000-U0BK8-00 | 120 | 1.6 | 19.3 | 1195 |
| 16 | 5781-01C15000-U0BK8-00 | 150 | 1.8 | 21.6 | 1505 |
| 17 | 5781-01C18500-U0BK8-00 | 185 | 2.0 | 24.1 | 1865 |
| 18 | 5781-01C24000-U0BK8-00 | 240 | 2.2 | 27.2 | 2400 |

## TABLE:

TRI-RATED CABLE



| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|
| 1 | 5D81-01C00050-U0BK8-00 | 0.5 | 0.8 | 2.6 | 13 |
| 2 | 5D81-01C00075-U0BK8-00 | 0.75 | 0.8 | 2.8 | 17 |
| 3 | 5D81-01C00100-U0BK8-00 | 1.0 | 0.8 | 3.0 | 20 |
| 4 | 5D81-01C00150-U0BK8-00 | 1.5 | 0.8 | 3.2 | 24 |
| 5 | 5D81-01C00250-U0BK8-00 | 2.5 | 0.8 | 3.7 | 35 |
| 6 | 5D81-01C00400-U0BK8-00 | 4 | 0.8 | 4.2 | 51 |
| 7 | 5D81-01C00600-U0BK8-00 | 6 | 0.8 | 4.8 | 71 |
| 8 | 5D81-01C01000-U0BK8-00 | 10 | 1.0 | 6.2 | 119 |
| 9 | 5D81-01C01600-U0BK8-00 | 16 | 1.0 | 7.6 | 179 |
| 10 | 5D81-01C02500-U0BK8-00 | 25 | 1.2 | 9.7 | 277 |
| 11 | 5D81-01C03500-U0BK8-00 | 35 | 1.2 | 11.1 | 375 |
| 12 | 5D81-01C05000-U0BK8-00 | 50 | 1.4 | 13.1 | 535 |
| 13 | 5D81-01C07000-U0BK8-00 | 70 | 1.4 | 15.3 | 755 |
| 14 | 5D81-01C09500-U0BK8-00 | 95 | 1.6 | 17.5 | 950 |
| 15 | 5D81-01C12000-U0BK8-00 | 120 | 1.6 | 19.3 | 1195 |
| 16 | 5D81-01C15000-U0BK8-00 | 150 | 1.8 | 21.6 | 1505 |
| 17 | 5D81-01C18500-U0BK8-00 | 185 | 2.0 | 24.1 | 1865 |
| 18 | 5D81-01C24000-U0BK8-00 | 240 | 2.2 | 27.2 | 2400 |

**Available Colors:** :"BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

*Special Features: TYPE CK cables are also known as TRI-RATED cables, according to UL\CSA standards.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE

SPECIFICATION: BS EN 50525-2-11 & IEC 60227-5

| | |
|---|---|
| APPLICATION | These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 2 Rated 70°C as per BS EN 50363-3. |
| Core color | Two Core: Blue & Brown.<br>Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 2 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC H03VV-F 3X0.5 MM2 CU/PVC/PVC 300/300V BS EN 50525-2-11 60227 IEC 52 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/300 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 5381-02C00050-U0WT8-00 | 2 | 0.50 | 0.5 | 0.6 | 5.2 | 40 |
| 2 | 5381-02C00075-U0WT8-00 | 2 | 0.75 | 0.5 | 0.6 | 5.7 | 49 |
| 3 | 5381-03C00050-U0WT8-00 | 3 | 0.50 | 0.5 | 0.6 | 5.6 | 48 |
| 4 | 5381-03C00075-U0WT8-00 | 3 | 0.75 | 0.5 | 0.6 | 6.0 | 60 |
| 5 | 5381-04C00050-U0WT8-00 | 4 | 0.50 | 0.5 | 0.6 | 6.1 | 58 |
| 6 | 5381-04C00075-U0WT8-00 | 4 | 0.75 | 0.5 | 0.6 | 6.6 | 71 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

*4-core cable printing shall not be mark with "60227 IEC 52".
IEC 60227-5 standard is applicable for 2 & 3 core cables only.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE
## SPECIFICATION: BS EN 50525-2-11 & IEC 60227-5

| | |
|---|---|
| APPLICATION | These cables are useful for use in dry or damp locations for medium duties in domestic premises, kitchens and offices. Suitable for washing machines, refrigerators etc. Can be used for cooking and heating appliances provided that the cable does not come in contact with the hot parts. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 2 Rated 70°C as per BS EN 50363-3. |
| Core color | Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown. Five Core: Green/Yellow, Black, Blue, Brown & Black. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 2 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC H05VV-F 3X1.5MM2 CU/PVC/PVC 300/500V BS EN 50525-2-11 60227 IEC 53 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/500 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 5481-02C00075-U0WT8-00 | 2 | 0.75 | 0.6 | 0.8 | 6.5 | 61 |
| 2 | 5481-02C00100-U0WT8-00 | 2 | 1.0 | 0.6 | 0.8 | 6.8 | 70 |
| 3 | 5481-02C00150-U0WT8-00 | 2 | 1.5 | 0.7 | 0.8 | 7.7 | 91 |
| 4 | 5481-02C00250-U0WT8-00 | 2 | 2.5 | 0.8 | 1.0 | 9.4 | 139 |
| 5 | 5481-02C00400-U0WT8-00 | 2 | 4.0 | 0.8 | 1.1 | 10.7 | 192 |
| 6 | 5481-03C00075-U0WT8-00 | 3 | 0.75 | 0.6 | 0.8 | 6.9 | 73 |
| 7 | 5481-03C00100-U0WT8-00 | 3 | 1.0 | 0.6 | 0.8 | 7.2 | 85 |
| 8 | 5481-03C00150-U0WT8-00 | 3 | 1.5 | 0.7 | 0.9 | 8.4 | 114 |
| 9 | 5481-03C00250-U0WT8-00 | 3 | 2.5 | 0.8 | 1.1 | 10.2 | 175 |
| 10 | 5481-03C00400-U0WT8-00 | 3 | 4.0 | 0.8 | 1.2 | 11.5 | 240 |
| 11 | 5481-04C00075-U0WT8-00 | 4 | 0.75 | 0.6 | 0.8 | 7.5 | 91 |
| 12 | 5481-04C00100-U0WT8-00 | 4 | 1.0 | 0.6 | 0.9 | 8.1 | 106 |
| 13 | 5481-04C00150-U0WT8-00 | 4 | 1.5 | 0.7 | 1.0 | 9.3 | 142 |
| 14 | 5481-04C00250-U0WT8-00 | 4 | 2.5 | 0.8 | 1.1 | 11.1 | 211 |
| 15 | 5481-04C00400-U0WT8-00 | 4 | 4.0 | 0.8 | 1.2 | 12.6 | 297 |
| 16 | 5481-05C00075-U0WT8-00 | 5 | 0.75 | 0.6 | 0.9 | 8.4 | 112 |
| 17 | 5481-05C00100-U0WT8-00 | 5 | 1.0 | 0.6 | 0.9 | 8.8 | 131 |
| 18 | 5481-05C00150-U0WT8-00 | 5 | 1.5 | 0.7 | 1.1 | 10.4 | 181 |
| 19 | 5481-05C00250-U0WT8-00 | 5 | 2.5 | 0.8 | 1.2 | 12.4 | 268 |
| 20 | 5481-05C00400-U0WT8-00 | 5 | 4.0 | 0.8 | 1.4 | 14.1 | 356 |



**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet. Other lengths are available upon request.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE
## SPECIFICATION: Adapted from BS EN 50525-2-11, VDE-0281 & VDE-0250

| | |
|---|---|
| APPLICATION | This flexible control cable is suitable for all electrical installations in dry or humid locations, under industrial conditions, but not in the open air. Applications include machine tool manufacture, power stations, heating and air conditioning installations etc. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 2 Rated 70°C as per BS EN 50363-3. |
| Core color | Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown. Five Core: Green/Yellow, Black, Blue, Brown & Black. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 2 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC 3X10 MM2 CU/PVC/PVC 450/750V GEN TO BS EN 50525-2-11 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 450/750 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 5481-02C00600-U0WT8-00 | 2 | 6 | 0.8 | 1.1 | 11.7 | 240 |
| 2 | 5481-02C01000-U0WT8-00 | 2 | 10 | 1.0 | 1.1 | 14.4 | 380 |
| 3 | 5481-02C01600-U0WT8-00 | 2 | 16 | 1.0 | 1.2 | 17.4 | 560 |
| 4 | 5481-02C02500-U0WT8-00 | 2 | 25 | 1.2 | 1.4 | 22.0 | 870 |
| 5 | 5481-02C03500-U0WT8-00 | 2 | 35 | 1.2 | 1.5 | 24.9 | 1150 |
| 6 | 5481-03C00600-U0WT8-00 | 3 | 6 | 0.8 | 1.2 | 12.6 | 310 |
| 7 | 5481-03C01000-U0WT8-00 | 3 | 10 | 1.0 | 1.2 | 15.5 | 485 |
| 8 | 5481-03C01600-U0WT8-00 | 3 | 16 | 1.0 | 1.4 | 19.0 | 715 |
| 9 | 5481-03C02500-U0WT8-00 | 3 | 25 | 1.2 | 1.6 | 23.9 | 1115 |
| 10 | 5481-03C03500-U0WT8-00 | 3 | 35 | 1.2 | 1.6 | 26.8 | 1455 |
| 11 | 5481-04C00600-U0WT8-00 | 4 | 6 | 0.8 | 1.2 | 13.7 | 375 |
| 12 | 5481-04C01000-U0WT8-00 | 4 | 10 | 1.0 | 1.4 | 17.4 | 610 |
| 13 | 5481-04C01600-U0WT8-00 | 4 | 16 | 1.0 | 1.6 | 21.2 | 910 |
| 14 | 5481-04C02500-U0WT8-00 | 4 | 25 | 1.2 | 1.6 | 26.3 | 1390 |
| 15 | 5481-04C03500-U0WT8-00 | 4 | 35 | 1.2 | 1.6 | 29.5 | 1825 |
| 16 | 5481-05C00600-U0WT8-00 | 5 | 6 | 0.8 | 1.4 | 15.5 | 470 |
| 17 | 5481-05C01000-U0WT8-00 | 5 | 10 | 1.0 | 1.6 | 19.5 | 750 |
| 18 | 5481-05C01600-U0WT8-00 | 5 | 16 | 1.0 | 1.6 | 23.4 | 1105 |
| 19 | 5481-05C02500-U0WT8-00 | 5 | 25 | 1.2 | 1.6 | 29.1 | 1690 |
| 20 | 5481-05C03500-U0WT8-00 | 5 | 35 | 1.2 | 1.6 | 32.7 | 2225 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE
## SPECIFICATION: GEN TO BS EN 50525-2-11 & IEC 60227-5

| | |
|---|---|
| APPLICATION | These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 2 Rated 70°C as per BS EN 50363-3. |
| Core color | Two Core + Reduced Neutral Conductor: Blue, Brown & Green/Yellow. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 2 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC H05VV-F 2CX1.0 + 0.75 MM2 CU/PVC/PVC 300/500V BS EN 50525-2-11 60227 IEC 53 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/500 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | INSULATION THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 5481-2/500100-U0WT8-00 | 2C+E | 1.0<br>+0.75 | 0.6<br>0.6 | 0.8 | 6.8 | 73 |
| 2 | 5481-2/500150-U0WT8-00 | 2C+E | 1.5<br>+1.0 | 0.7<br>0.6 | 0.9 | 7.7 | 95 |
| 3 | 5481-2/500250-U0WT8-00 | 2C+E | 2.5<br>+1.5 | 0.8<br>0.7 | 1.1 | 9.4 | 145 |
| 4 | 5481-2/500400-U0WT8-00 | 2C+E | 4.0<br>+2.5 | 0.8<br>0.8 | 1.2 | 10.8 | 205 |
| 5 | 5481-2/500600-U0WT8-00 | 2C+E | 6.0<br>+2.5 | 1.0<br>0.8 | 1.4 | 12.6 | 275 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE

SPECIFICATION: BS EN 50525-2-11 & IEC 60227-5

| | |
|---|---|
| APPLICATION | These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 3 Rated 90°C as per BS EN 50363-3. |
| Core color | Two Core: Blue & Brown.<br>Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC H03V2V2-F 3X0.5 MM2 CU/PVC/PVC 300/300V BS EN 50525-2-11 60227 IEC 56 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 300/300 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 5A81-02C00050-U0WT8-00 | 2 | 0.50 | 0.5 | 0.6 | 5.2 | 40 |
| 2 | 5A81-02C00075-U0WT8-00 | 2 | 0.75 | 0.5 | 0.6 | 5.7 | 49 |
| 3 | 5A81-03C00050-U0WT8-00 | 3 | 0.50 | 0.5 | 0.6 | 5.6 | 48 |
| 4 | 5A81-03C00075-U0WT8-00 | 3 | 0.75 | 0.5 | 0.6 | 6.0 | 60 |
| 5 | 5A81-04C00050-U0WT8-00 | 4 | 0.50 | 0.5 | 0.6 | 6.1 | 58 |
| 6 | 5A81-04C00075-U0WT8-00 | 4 | 0.75 | 0.5 | 0.6 | 6.6 | 71 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.
Special Features: These cables are also available with rated Temperature 105°C according to UL\CSA standards

*4-core cable printing shall not be mark with "60227 IEC 56".
IEC 60227-5 standard is applicable for 2 & 3 core cables only.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE

SPECIFICATION: BS EN 50525-2-11 & IEC 60227-5

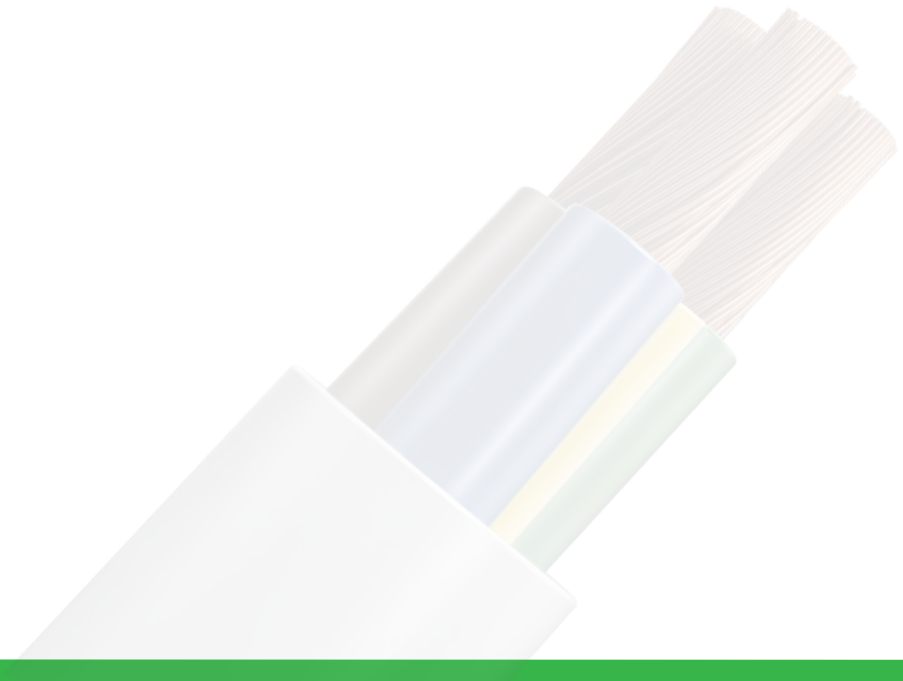
| | |
|---|---|
| APPLICATION | These cables are useful for use in dry or damp locations for medium duties in domestic premises, kitchens and offices. Suitable for washing machines, refrigerators etc. Can be used for cooking and heating appliances provided that the cable does not come in contact with the hot parts. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 3 Rated 90°C as per BS EN 50363-3. |
| Core color | Two Core: Blue & Brown.<br>Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown.<br>Five Core: Green/Yellow, Black, Blue, Brown & Black. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC H05V2V2-F 3X1.5MM2 CU/PVC/PVC 300/500V BS EN 50525-2-11 60227 IEC 57 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 300/500 V |
| Flame Retardant | IEC 60332-1-2 |



## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 5S81-02C00075-U0WT8-00 | 2 | 0.75 | 0.6 | 0.8 | 6.5 | 61 |
| 2 | 5S81-02C00100-U0WT8-00 | 2 | 1.0 | 0.6 | 0.8 | 6.8 | 70 |
| 3 | 5S81-02C00150-U0WT8-00 | 2 | 1.5 | 0.7 | 0.8 | 7.7 | 91 |
| 4 | 5S81-02C00250-U0WT8-00 | 2 | 2.5 | 0.8 | 1.0 | 9.4 | 139 |
| 5 | 5S81-02C00400-U0WT8-00 | 2 | 4.0 | 0.8 | 1.1 | 10.7 | 192 |
| 6 | 5S81-03C00075-U0WT8-00 | 3 | 0.75 | 0.6 | 0.8 | 6.9 | 73 |
| 7 | 5S81-03C00100-U0WT8-00 | 3 | 1.0 | 0.6 | 0.8 | 7.2 | 85 |
| 8 | 5S81-03C00150-U0WT8-00 | 3 | 1.5 | 0.7 | 0.9 | 8.4 | 114 |
| 9 | 5S81-03C00250-U0WT8-00 | 3 | 2.5 | 0.8 | 1.1 | 10.2 | 175 |
| 10 | 5S81-03C00400-U0WT8-00 | 3 | 4.0 | 0.8 | 1.2 | 11.5 | 240 |
| 11 | 5S81-04C00075-U0WT8-00 | 4 | 0.75 | 0.6 | 0.8 | 7.5 | 91 |
| 12 | 5S81-04C00100-U0WT8-00 | 4 | 1.0 | 0.6 | 0.9 | 8.1 | 106 |
| 13 | 5S81-04C00150-U0WT8-00 | 4 | 1.5 | 0.7 | 1.0 | 9.3 | 142 |
| 14 | 5S81-04C00250-U0WT8-00 | 4 | 2.5 | 0.8 | 1.1 | 11.1 | 211 |
| 15 | 5S81-04C00400-U0WT8-00 | 4 | 4.0 | 0.8 | 1.2 | 12.6 | 297 |
| 16 | 5S81-05C00075-U0WT8-00 | 5 | 0.75 | 0.6 | 0.9 | 8.4 | 112 |
| 17 | 5S81-05C00100-U0WT8-00 | 5 | 1.0 | 0.6 | 0.9 | 8.8 | 131 |
| 18 | 5S81-05C00150-U0WT8-00 | 5 | 1.5 | 0.7 | 1.1 | 10.4 | 181 |
| 19 | 5S81-05C00250-U0WT8-00 | 5 | 2.5 | 0.8 | 1.2 | 12.4 | 268 |
| 20 | 5S81-05C00400-U0WT8-00 | 5 | 4.0 | 0.8 | 1.4 | 14.1 | 356 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.
**Special Features:** These cables are also available with rated Temperature 105°C according to UL\CSA standards.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE
SPECIFICATION: Adapted from VDE-0281 & VDE-0250

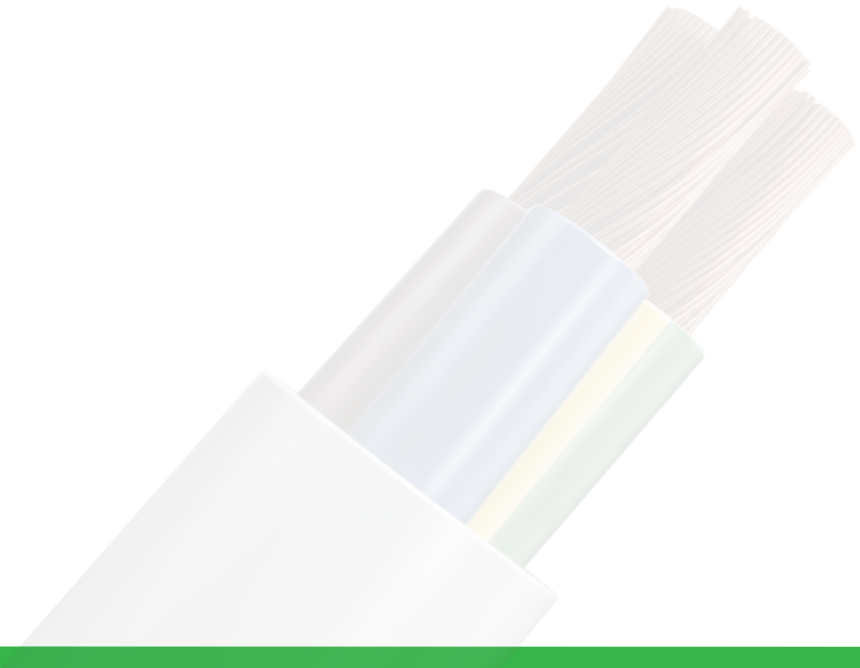
| | |
|---|---|
| APPLICATION | This flexible control cable is suitable for all electrical installations in dry or humid locations, under industrial conditions, but not in the open air. Applications include machine tool manufacture, power stations, heating and air conditioning installations etc. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 3 Rated 90$^{0}$C as per BS EN 50363-3. |
| Core color | Two Core: Blue & Brown.<br>Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown.<br>Five Core: Green/Yellow, Black, Blue, Brown & Black. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC 3X10 MM2 CU/PVC/PVC 450/750V GEN TO BS EN 50525-2-11 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 450/750 V |
| Flame Retardant | IEC 60332-1-2 |



## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 5S81-02C00600-U0WT8-00 | 2 | 6 | 0.8 | 1.1 | 11.7 | 240 |
| 2 | 5S81-02C01000-U0WT8-00 | 2 | 10 | 1.0 | 1.1 | 14.4 | 380 |
| 3 | 5S81-02C01600-U0WT8-00 | 2 | 16 | 1.0 | 1.2 | 17.4 | 560 |
| 4 | 5S81-02C02500-U0WT8-00 | 2 | 25 | 1.2 | 1.4 | 22.0 | 870 |
| 5 | 5S81-02C03500-U0WT8-00 | 2 | 35 | 1.2 | 1.5 | 24.9 | 1150 |
| 6 | 5S81-03C00600-U0WT8-00 | 3 | 6 | 0.8 | 1.2 | 12.6 | 310 |
| 7 | 5S81-03C01000-U0WT8-00 | 3 | 10 | 1.0 | 1.2 | 15.5 | 485 |
| 8 | 5S81-03C01600-U0WT8-00 | 3 | 16 | 1.0 | 1.4 | 19.0 | 715 |
| 9 | 5S81-03C02500-U0WT8-00 | 3 | 25 | 1.2 | 1.6 | 23.9 | 1115 |
| 10 | 5S81-03C03500-U0WT8-00 | 3 | 35 | 1.2 | 1.6 | 26.8 | 1455 |
| 11 | 5S81-04C00600-U0WT8-00 | 4 | 6 | 0.8 | 1.2 | 13.7 | 375 |
| 12 | 5S81-04C01000-U0WT8-00 | 4 | 10 | 1.0 | 1.4 | 17.4 | 610 |
| 13 | 5S81-04C01600-U0WT8-00 | 4 | 16 | 1.0 | 1.6 | 21.2 | 910 |
| 14 | 5S81-04C02500-U0WT8-00 | 4 | 25 | 1.2 | 1.6 | 26.3 | 1390 |
| 15 | 5S81-04C03500-U0WT8-00 | 4 | 35 | 1.2 | 1.6 | 29.5 | 1825 |
| 16 | 5S81-05C00600-U0WT8-00 | 5 | 6 | 0.8 | 1.4 | 15.5 | 470 |
| 17 | 5S81-05C01000-U0WT8-00 | 5 | 10 | 1.0 | 1.6 | 19.5 | 750 |
| 18 | 5S81-05C01600-U0WT8-00 | 5 | 16 | 1.0 | 1.6 | 23.4 | 1105 |
| 19 | 5S81-05C02500-U0WT8-00 | 5 | 25 | 1.2 | 1.6 | 29.1 | 1690 |
| 20 | 5S81-05C03500-U0WT8-00 | 5 | 35 | 1.2 | 1.6 | 32.7 | 2225 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.
**Special Features:** These cables are also available with rated Temperature 105°C according to UL\CSA standards

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE
## SPECIFICATION: GEN TO BS EN 50525-2-11 & IEC 60227-5

| | |
|---|---|
| APPLICATION | These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC rated 105°C |
| Core color | Two Core: Blue & Brown.<br>Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC H03V2V2-F 3X0.5 MM2 CU/PVC/PVC 300/300V 105C GEN TO BS EN 50525-2-11 60227 IEC 56 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 105°C |
| Voltage Rating | 300/300 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 538B-02C00050-U0WT8-00 | 2 | 0.50 | 0.5 | 0.6 | 5.2 | 40 |
| 2 | 538B-02C00075-U0WT8-00 | 2 | 0.75 | 0.5 | 0.6 | 5.7 | 49 |
| 3 | 538B-03C00050-U0WT8-00 | 3 | 0.50 | 0.5 | 0.6 | 5.6 | 48 |
| 4 | 538B-03C00075-U0WT8-00 | 3 | 0.75 | 0.5 | 0.6 | 6.0 | 60 |
| 5 | 538B-04C00050-U0WT8-00 | 4 | 0.50 | 0.5 | 0.6 | 6.1 | 58 |
| 6 | 538B-04C00075-U0WT8-00 | 4 | 0.75 | 0.5 | 0.6 | 6.6 | 71 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

*4-core cable printing shall not be mark with "60227 IEC 56".
IEC 60227-5 standard is applicable for 2 & 3 core cables only.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE
## SPECIFICATION: GEN TO BS EN 50525-2-11 & IEC 60227-5

| | |
|---|---|
| APPLICATION | These cables are useful for use in dry or damp locations for medium duties in domestic premises, kitchens and offices. Suitable for washing machines, refrigerators etc. Can be used for cooking and heating appliances provided that the cable does not come in contact with the hot parts. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC rated 105°C |
| Core color | Two Core: Blue & Brown.<br>Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown.<br>Five Core: Green/Yellow, Black, and Blue & Brown. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also available on request. |
| Printing Text (Example) | MESC H05V2V2-F 3X1.5MM2 CU/PVC/PVC 300/500V 105C GEN TO BS EN 50525-2-11 60227 IEC 57 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 105°C |
| Voltage Rating | 300/300 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 548B-02C00075-U0WT8-00 | 2 | 0.75 | 0.6 | 0.8 | 6.5 | 61 |
| 2 | 548B-02C00100-U0WT8-00 | 2 | 1.0 | 0.6 | 0.8 | 6.8 | 70 |
| 3 | 548B-02C00150-U0WT8-00 | 2 | 1.5 | 0.7 | 0.8 | 7.7 | 91 |
| 4 | 548B-02C00250-U0WT8-00 | 2 | 2.5 | 0.8 | 1.0 | 9.4 | 139 |
| 5 | 548B-02C00400-U0WT8-00 | 2 | 4.0 | 0.8 | 1.1 | 10.7 | 192 |
| 6 | 548B-03C00075-U0WT8-00 | 3 | 0.75 | 0.6 | 0.8 | 6.9 | 73 |
| 7 | 548B-03C00100-U0WT8-00 | 3 | 1.0 | 0.6 | 0.8 | 7.2 | 85 |
| 8 | 548B-03C00150-U0WT8-00 | 3 | 1.5 | 0.7 | 0.9 | 8.4 | 114 |
| 9 | 548B-03C00250-U0WT8-00 | 3 | 2.5 | 0.8 | 1.1 | 10.2 | 175 |
| 10 | 548B-03C00400-U0WT8-00 | 3 | 4.0 | 0.8 | 1.2 | 11.5 | 240 |
| 11 | 548B-04C00075-U0WT8-00 | 4 | 0.75 | 0.6 | 0.8 | 7.5 | 91 |
| 12 | 548B-04C00100-U0WT8-00 | 4 | 1.0 | 0.6 | 0.9 | 8.1 | 106 |
| 13 | 548B-04C00150-U0WT8-00 | 4 | 1.5 | 0.7 | 1.0 | 9.3 | 142 |
| 14 | 548B-04C00250-U0WT8-00 | 4 | 2.5 | 0.8 | 1.1 | 11.1 | 211 |
| 15 | 548B-04C00400-U0WT8-00 | 4 | 4.0 | 0.8 | 1.2 | 12.6 | 297 |
| 16 | 548B-05C00075-U0WT8-00 | 5 | 0.75 | 0.6 | 0.9 | 8.4 | 112 |
| 17 | 548B-05C00100-U0WT8-00 | 5 | 1.0 | 0.6 | 0.9 | 8.8 | 131 |
| 18 | 548B-05C00150-U0WT8-00 | 5 | 1.5 | 0.7 | 1.1 | 10.4 | 181 |
| 19 | 548B-05C00250-U0WT8-00 | 5 | 2.5 | 0.8 | 1.2 | 12.4 | 268 |
| 20 | 548B-05C00400-U0WT8-00 | 5 | 4.0 | 0.8 | 1.4 | 14.1 | 356 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE
## SPECIFICATION: Adapted from VDE-0281 & VDE-0250

| | |
|---|---|
| APPLICATION | This flexible control cable is suitable for all electrical installations in dry or humid locations, under industrial conditions, . Applications include machine tool manufacture, power stations, heating and air conditioning installations etc. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228 |
| Insulation | PVC rated 105°C |
| Core color | Two Core: Blue & Brown.<br>Three Core: Green/Yellow, Blue & Brown.<br>Four Core: Green/Yellow, Black, and Blue & Brown.<br>Five Core: Green/Yellow, Black, Blue, Brown & Black. |
| Assembly | Cores twisted together to make a round assembly with fillers wherever necessary. |
| Outer Sheath | PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White.<br>Other colors are also availabtle on request. |
| Printing Text (Example) | MESC 3X10 MM2 CU/PVC/PVC 450/750V 105C GEN TO BS EN 50525-2-11 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 105°C |
| Voltage Rating | 450/750 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|
| 1 | 548B-02C00600-U0WT8-00 | 2 | 6 | 0.8 | 1.1 | 11.7 | 240 |
| 2 | 548B-02C01000-U0WT8-00 | 2 | 10 | 1.0 | 1.1 | 14.4 | 380 |
| 3 | 548B-02C01600-U0WT8-00 | 2 | 16 | 1.0 | 1.2 | 17.4 | 560 |
| 4 | 548B-02C02500-U0WT8-00 | 2 | 25 | 1.2 | 1.4 | 22.0 | 870 |
| 5 | 548B-02C03500-U0WT8-00 | 2 | 35 | 1.2 | 1.5 | 24.9 | 1150 |
| 6 | 548B-03C00600-U0WT8-00 | 3 | 6 | 0.8 | 1.2 | 12.6 | 310 |
| 7 | 548B-03C01000-U0WT8-00 | 3 | 10 | 1.0 | 1.2 | 15.5 | 485 |
| 8 | 548B-03C01600-U0WT8-00 | 3 | 16 | 1.0 | 1.4 | 19.0 | 715 |
| 9 | 548B-03C02500-U0WT8-00 | 3 | 25 | 1.2 | 1.6 | 23.9 | 1115 |
| 10 | 548B-03C03500-U0WT8-00 | 3 | 35 | 1.2 | 1.6 | 26.8 | 1455 |
| 11 | 548B-04C00600-U0WT8-00 | 4 | 6 | 0.8 | 1.2 | 13.7 | 375 |
| 12 | 548B-04C01000-U0WT8-00 | 4 | 10 | 1.0 | 1.4 | 17.4 | 610 |
| 13 | 548B-04C01600-U0WT8-00 | 4 | 16 | 1.0 | 1.6 | 21.2 | 910 |
| 14 | 548B-04C02500-U0WT8-00 | 4 | 25 | 1.2 | 1.6 | 26.3 | 1390 |
| 15 | 548B-04C03500-U0WT8-00 | 4 | 35 | 1.2 | 1.6 | 29.5 | 1825 |
| 16 | 548B-05C00600-U0WT8-00 | 5 | 6 | 0.8 | 1.4 | 15.5 | 470 |
| 17 | 548B-05C01000-U0WT8-00 | 5 | 10 | 1.0 | 1.6 | 19.5 | 750 |
| 18 | 548B-05C01600-U0WT8-00 | 5 | 16 | 1.0 | 1.6 | 23.4 | 1105 |
| 19 | 548B-05C02500-U0WT8-00 | 5 | 25 | 1.2 | 1.6 | 29.1 | 1690 |
| 20 | 548B-05C03500-U0WT8-00 | 5 | 35 | 1.2 | 1.6 | 32.7 | 2225 |



**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# PVC INSULATED PVC SHEATHED CABLE FLAT TWIN AND FLAT THREE CORE CABLE
SPECIFICATION: BS 6004

| | |
|---|---|
| APPLICATION | These cables are used in dry or damp locations for fixed installation. Suitable for Installation in walls, on boards or embedded in plaster. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed copper as per class 1 or class 2 of IEC-60228. |
| Insulation | PVC Type TI 1 as per BS EN 50363-3.<br>Two or Three insulated cores laid parallel and sheathed. |
| Core color | Twin core: Red & Black.<br>Three core: Red, Yellow (Centre core) and Blue. |
| Outer Sheath | PVC Type TM-1 as per BS EN 50363-4.1. Outer Sheath color shall be Grey.<br>Other color are also available on request. |
| Printing Text (Example) | TWIN FLAT- MESC FLAT TWIN CU/PVC/PVC 2CX1.5MM2 300/500V YEAR<br>FLAT THREE CORE - MESC FLAT THREE CORE CU/PVC/PVC 3CX1.5MM2 300/500V YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/500V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | CONDUCTOR CROSS SECTIONAL AREA (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | APPROX OVERALL DIA. (mm) | APPROX. WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|---|
| 1 | 7561-02C00100-U0GY8-00 | 2 | 1.0 | 1 | 0.6 | 0.9 | 6.8 X 4.4 | 53 |
| 2 | 7561-02C00150-U0GY8-00 | 2 | 1.5 | 1 | 0.7 | 0.9 | 7.7 X 4.8 | 70 |
| 3 | 7561-02C00250-U0GY8-00 | 2 | 2.5 | 1 | 0.8 | 0.9 | 8.9 X 5.4 | 100 |
| 4 | 7561-02C00400-U0GY8-00 | 2 | 4 | 1 | 0.8 | 1.0 | 10.1 X 6.1 | 139 |
| 5 | 7561-02C00600-U0GY8-00 | 2 | 6 | 1 | 0.8 | 1.0 | 11.1 X 6.6 | 185 |
| 6 | 7511-02C00150-U0GY8-00 | 2 | 1.5 | 7 | 0.7 | 0.9 | 8.1 X 5.0 | 76 |
| 7 | 7511-02C00250-U0GY8-00 | 2 | 2.5 | 7 | 0.8 | 1.0 | 9.5 X 5.9 | 110 |
| 8 | 7511-02C00400-U0GY8-00 | 2 | 4 | 7 | 0.8 | 1.0 | 10.7 X 6.4 | 148 |
| 9 | 7511-02C00600-U0GY8-00 | 2 | 6 | 7 | 0.8 | 1.1 | 12.0 X 7.2 | 201 |
| 10 | 7511-02C01000-U0GY8-00 | 2 | 10 | 7 | 1.0 | 1.2 | 14.9 X 8.8 | 319 |
| 11 | 7511-02C01600-U0GY8-00 | 2 | 16 | 7 | 1.0 | 1.3 | 17.3 X 10.1 | 461 |
| 12 | 7561-03C00100-U0GY8-00 | 3 | 1.0 | 1 | 0.6 | 0.9 | 9.2 X 4.4 | 76 |
| 13 | 7561-03C00150-U0GY8-00 | 3 | 1.5 | 1 | 0.7 | 0.9 | 10.5 X 4.8 | 102 |
| 14 | 7561-03C00250-U0GY8-00 | 3 | 2.5 | 1 | 0.8 | 1.0 | 12.6 X 5.7 | 152 |
| 15 | 7511-03C00400-U0GY8-00 | 3 | 4 | 7 | 0.8 | 1.1 | 15.1 X 6.7 | 224 |
| 16 | 7511-03C00600-U0GY8-00 | 3 | 6 | 7 | 0.8 | 1.1 | 16.8 X 7.2 | 296 |
| 17 | 7511-03C01000-U0GY8-00 | 3 | 10 | 7 | 1.0 | 1.2 | 21.1 X 8.8 | 474 |
| 18 | 7511-03C01600-U0GY8-00 | 3 | 16 | 7 | 1.0 | 1.3 | 24.5 X 10.1 | 686 |

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# PVC INSULATED PVC SHEATHED FLAT CABLES

SPECIFICATION: BS 6004

| | |
|---|---|
| APPLICATION | These cables are used in dry or dump locations for fixed installation. Suitable for installation in walls, on boards or embedded in plaster. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed stranded copper class 2 as per IEC 60228 |
| Insulation | Flame retardant PVC |
| Color Code | Blue & Black. |
| Outer Sheath | Two insulated cores laid in parallel with suitable distance between each core and extruded with Black colored PVC. |
| Printing Text (Example) | MESC FLAT CABLE 2CX4MM2 BS 6004 YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/500V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | NO. OF STRANDS | APPROX. OVERALL DIMENSION | | APPROX. CABLE WEIGHT (kg/km) |
|---|---|---|---|---|---|---|
| | | | | Minor (mm) | Major (mm) | |
| 1 | 7511-02C00050-U0BK8-FB-09 | 0.5 | 7 | 3.5 | 9.03 | 42 |
| 2 | 7511-02C00075-U0BK8-FB-09 | 0.75 | 7 | 3.71 | 9.57 | 50 |
| 3 | 7511-02C00100-U0BK8-FB-09 | 1.0 | 7 | 4.08 | 10.54 | 62 |
| 4 | 7511-02C00150-U0BK8-FB-09 | 1.5 | 7 | 4.52 | 11.66 | 79 |
| 5 | 7511-02C00250-U0BK8-FB-09 | 2.5 | 7 | 4.94 | 12.75 | 103 |
| 6 | 7511-02C00400-U0BK8-FB-09 | 4.0 | 7 | 5.86 | 15.13 | 152 |

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# PVC INSULATED PVC SHEATHED FLAT CABLES WITH EARTH CONTINUITY (E.C.C)

SPECIFICATION: BS 6004

| | |
|---|---|
| APPLICATION | Mainly for domestic and industrial wiring where, there is little risk of mechanical damage. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed copper as per IEC 60228. |
| Insulation | PVC Type TI 1 as per BS EN 50363-3.<br>Two Cores laid parallel with bare ECC at center and sheathed. |
| Color Code | Blue & Brown. |
| Outer Sheath | PVC Type TM-1 as per BS EN 50363-4.1. Outer Sheath color shall be Grey.<br>Other color are also available on request. |
| Printing Text (Example) | MESC FLAT TWIN CU/PVC/PVC 2CX1.5 MM2 + 1.0MM2 ECC 300/500V YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/500V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | CLASS OF CONDUCTOR | ECC Area (mm2) | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | APPROX. OVERALL DIA. Lower Limit (mm) | APPROX. OVERALL DIA. Upper Limit (mm) | APPROX. CABLE WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7561-02C00150-U0GY8-EC | 1.5 | 1 | 1.0 | 0.7 | 0.9 | 4.2x8.0 | 5.0x9.2 | 100 |
| 2 | 7561-02C00250-U0GY8-EC | 2.5 | 1 | 1.5 | 0.7 | 1.0 | 5.2x9.6 | 6.0x11.2 | 145 |
| 3 | 7511-02C00400-U0GY8-EC | 4.0 | 2 | 1.5 | 0.8 | 1.0 | 5.7x10.8 | 6.9x13.1 | 180 |
| 4 | 7511-02C00600-U0GY8-EC | 6.0 | 2 | 2.5 | 0.8 | 1.1 | 6.4x12.4 | 7.8x15.0 | 255 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# PVC INSULATED FLAT SPEAKER CABLE

SPECIFICATION: GEN TO BS 6004

| | |
|---|---|
| APPLICATION | The cables are intended for the connection of domestic appliances and speaker to the fixed supply. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | PVC Type TI 1 to EN 50363-3. |
| Color Code | 1-RED & 2-WHITE |
| Cable Construction | Two Conductors laid parallel. |
| Printing Text (Example) | MESC SPEAKER CABLE 2X2.5 MM2 CU/PVC YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 70°C |
| Voltage Rating | 300/300 V |
| Flame Retardant | IEC 60332-1-2 |

## TABLE:

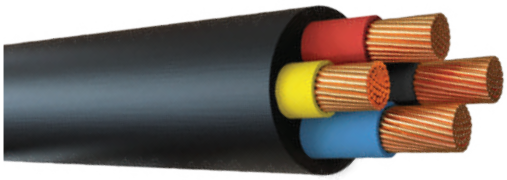
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | INSULATION THICKNESS (mm) | OVERALL DIMENSIONS Nominal Limit (H X W) (mm) | APPROX. WEIGHT (kg/ km) |
|---|---|---|---|---|---|---|
| 1 | 5281-02C00050-U0RD8-HH-07 | 2C | 0.5 | 0.8 | 2.5x5.2 | 25 |
| 2 | 5281-02C00075-U0RD8-HH-07 | 2C | 0.75 | 0.8 | 2.7x5.5 | 30 |
| 3 | 5281-02C00100-U0RD8-HH-07 | 2C | 1.0 | 0.8 | 2.9x5.8 | 35 |
| 4 | 5281-02C00150-U0RD8-HH-07 | 2C | 1.5 | 0.8 | 3.1x6.3 | 45 |
| 5 | 5281-02C00250-U0RD8-HH-07 | 2C | 2.5 | 1.0 | 4.0x8.0 | 70 |

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

# LV POWER, SINGLE & MULTI CORE, UNARMOURED CABLE

CU/XLPE/PVC

SPECIFICATION: BS 7889



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays or conduits in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to BS 7655-1.3. |
| Color Code* | 1C: Black<br>2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling** | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape. |
| Outer Sheath*** | Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black. |
| Marking on the sheath | Example – ELECTRIC CABLE CU/XLPE/PVC 600/1000V BS 7889 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

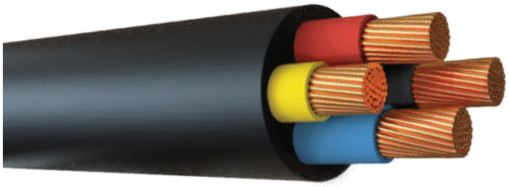
*Other Insulation color available on request.
**Applicable only for Multi-Core cables.
*** Other sheath color available on request.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-01C00150-U0BK8-NE* | 1C | 1.5 | 7 | 0.7 | 1.4 | 1.09 | 5.8 | 50 | 14 |
| 2 | 7614-01C00250-U0BK8-NE* | 1C | 2.5 | 7 | 0.7 | 1.4 | 1.09 | 6.2 | 61 | 15 |
| 3 | 7614-01C00400-U0BK8-NE* | 1C | 4 | 7 | 0.7 | 1.4 | 1.09 | 6.7 | 75 | 16 |
| 4 | 7614-01C00600-U0BK8-NE* | 1C | 6 | 7 | 0.7 | 1.4 | 1.09 | 7.3 | 100 | 18 |
| 5 | 7614-01C01000-U0BK8-NE* | 1C | 10 | 7 | 0.7 | 1.4 | 1.09 | 8.3 | 150 | 21 |
| 6 | 76D4-01C01600-U0BK8-NE | 1C | 16 | 7 | 0.7 | 1.4 | 1.09 | 8.9 | 205 | 23 |
| 7 | 76D4-01C02500-U0BK8-NE | 1C | 25 | 7 | 0.9 | 1.4 | 1.09 | 10.5 | 300 | 28 |
| 8 | 76D4-01C03500-U0BK8-NE | 1C | 35 | 7 | 0.9 | 1.4 | 1.09 | 11.6 | 400 | 31 |
| 9 | 76D4-01C05000-U0BK8-NE | 1C | 50 | 19 | 1.0 | 1.4 | 1.09 | 13.1 | 525 | 36 |
| 10 | 76D4-01C07000-U0BK8-NE | 1C | 70 | 19 | 1.1 | 1.4 | 1.09 | 14.9 | 725 | 42 |
| 11 | 76D4-01C09500-U0BK8-NE | 1C | 95 | 19 | 1.1 | 1.5 | 1.18 | 16.7 | 970 | 47 |
| 12 | 76D4-01C12000-U0BK8-NE | 1C | 120 | 19 | 1.2 | 1.5 | 1.18 | 18.3 | 1215 | 55 |
| 13 | 76D4-01C15000-U0BK8-NE | 1C | 150 | 19 | 1.4 | 1.6 | 1.26 | 20.5 | 1500 | 66 |
| 14 | 76D4-01C18500-U0BK8-NE | 1C | 185 | 37 | 1.6 | 1.6 | 1.26 | 22.5 | 1835 | 73 |
| 15 | 76D4-01C24000-U0BK8-NE | 1C | 240 | 37 | 1.7 | 1.7 | 1.35 | 25.1 | 2385 | 87 |
| 16 | 76D4-01C30000-U0BK8-NE | 1C | 300 | 37 | 1.8 | 1.8 | 1.43 | 27.6 | 2950 | 102 |
| 17 | 76D4-01C40000-U0BK8-NE | 1C | 400 | 61 | 2.0 | 1.9 | 1.52 | 31.4 | 3775 | 123 |
| 18 | 76D4-01C50000-U0BK8-NE | 1C | 500 | 61 | 2.2 | 2.0 | 1.60 | 34.8 | 4800 | 144 |
| 19 | 76D4-01C63000-U0BK8-NE | 1C | 630 | 61 | 2.4 | 2.2 | 1.77 | 39.1 | 6200 | 178 |
| 20 | 76D4-01C80000-U0BK8-NE | 1C | 800 | 61 | 2.6 | 2.3 | 1.86 | 43.5 | 8100 | 208 |
| 21 | 76D4-1C100000-U0BK8-NE | 1C | 1000 | 61 | 2.8 | 2.4 | 1.94 | 48.7 | 10125 | 244 |
| 22 | 7614-01C80000-U0BK8-NE* | 1C | 800 | 91 | 2.6 | 2.3 | 1.86 | 46.9 | 8150 | 226 |
| 23 | 7614-1C100000-U0BK8-NE* | 1C | 1000 | 91 | 2.8 | 2.4 | 1.94 | 52.0 | 10200 | 262 |

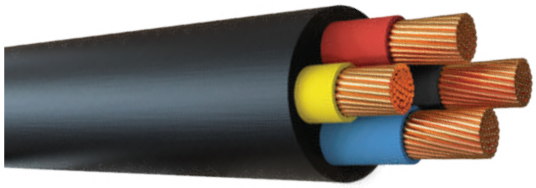
*Non-Compacted circular conductor, other compacted circular conductor

**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:



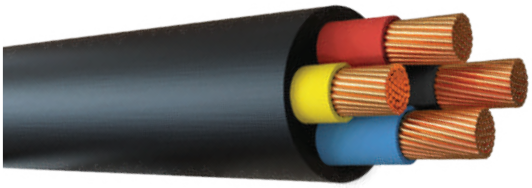
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-NE | 2C | 1.5 | 7 | 0.7 | 1.8 | 1.43 | 9.8 | 110 | 32 |
| 2 | 7614-02C00250-U0BK8-NE | 2C | 2.5 | 7 | 0.7 | 1.8 | 1.43 | 10.6 | 135 | 35 |
| 3 | 7614-02C00400-U0BK8-NE | 2C | 4 | 7 | 0.7 | 1.8 | 1.43 | 11.6 | 175 | 39 |
| 4 | 7614-02C00600-U0BK8-NE | 2C | 6 | 7 | 0.7 | 1.8 | 1.43 | 12.8 | 230 | 43 |
| 5 | 7614-02C01000-U0BK8-NE | 2C | 10 | 7 | 0.7 | 1.8 | 1.43 | 14.7 | 325 | 51 |
| 6 | 7614-03C00150-U0BK8-NE | 3C | 1.5 | 7 | 0.7 | 1.8 | 1.43 | 10.3 | 140 | 34 |
| 7 | 7614-03C00250-U0BK8-NE | 3C | 2.5 | 7 | 0.7 | 1.8 | 1.43 | 11.2 | 175 | 37 |
| 8 | 7614-03C00400-U0BK8-NE | 3C | 4 | 7 | 0.7 | 1.8 | 1.43 | 12.3 | 230 | 42 |
| 9 | 7614-03C00600-U0BK8-NE | 3C | 6 | 7 | 0.7 | 1.8 | 1.43 | 13.4 | 300 | 46 |
| 10 | 7614-03C01000-U0BK8-NE | 3C | 10 | 7 | 0.7 | 1.8 | 1.43 | 15.6 | 440 | 55 |
| 11 | 7614-04C00150-U0BK8-NE | 4C | 1.5 | 7 | 0.7 | 1.8 | 1.43 | 11.0 | 165 | 36 |
| 12 | 7614-04C00250-U0BK8-NE | 4C | 2.5 | 7 | 0.7 | 1.8 | 1.43 | 12.1 | 210 | 41 |
| 13 | 7614-04C00400-U0BK8-NE | 4C | 4 | 7 | 0.7 | 1.8 | 1.43 | 13.3 | 280 | 45 |
| 14 | 7614-04C00600-U0BK8-NE | 4C | 6 | 7 | 0.7 | 1.8 | 1.43 | 14.7 | 375 | 51 |
| 15 | 7614-04C01000-U0BK8-NE | 4C | 10 | 7 | 0.7 | 1.8 | 1.43 | 17.0 | 550 | 60 |
| 16 | 7614-05C00150-U0BK8-NE-02 | 5C | 1.5 | 7 | 0.7 | 1.8 | 1.43 | 11.9 | 190 | 40 |
| 17 | 7614-05C00250-U0BK8-NE-02 | 5C | 2.5 | 7 | 0.7 | 1.8 | 1.43 | 13.0 | 250 | 44 |
| 18 | 7614-05C00400-U0BK8-NE-02 | 5C | 4 | 7 | 0.7 | 1.8 | 1.43 | 14.4 | 330 | 50 |
| 19 | 7614-05C00600-U0BK8-NE-02 | 5C | 6 | 7 | 0.7 | 1.8 | 1.43 | 16.0 | 450 | 56 |
| 20 | 7614-05C01000-U0BK8-NE-02 | 5C | 10 | 7 | 0.7 | 1.8 | 1.43 | 18.5 | 675 | 66 |

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:



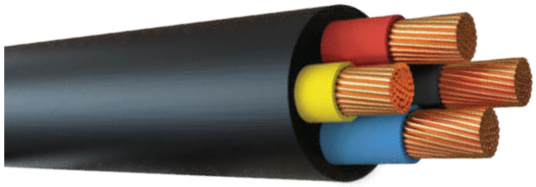
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-ND | 2C | 1.5 | 7 | 0.7 | 1.8 | 1.43 | 9.8 | 110 | 32 |
| 2 | 7614-02C00250-U0BK8-ND | 2C | 2.5 | 7 | 0.7 | 1.8 | 1.43 | 10.6 | 135 | 35 |
| 3 | 7614-02C00400-U0BK8-ND | 2C | 4 | 7 | 0.7 | 1.8 | 1.43 | 11.6 | 175 | 39 |
| 4 | 7614-02C00600-U0BK8-ND | 2C | 6 | 7 | 0.7 | 1.8 | 1.43 | 12.8 | 230 | 43 |
| 5 | 7614-02C01000-U0BK8-ND | 2C | 10 | 7 | 0.7 | 1.8 | 1.43 | 14.7 | 325 | 51 |
| 6 | 7614-03C00150-U0BK8-ND | 3C | 1.5 | 7 | 0.7 | 1.8 | 1.43 | 10.3 | 140 | 34 |
| 7 | 7614-03C00250-U0BK8-ND | 3C | 2.5 | 7 | 0.7 | 1.8 | 1.43 | 11.2 | 175 | 37 |
| 8 | 7614-03C00400-U0BK8-ND | 3C | 4 | 7 | 0.7 | 1.8 | 1.43 | 12.3 | 230 | 42 |
| 9 | 7614-03C00600-U0BK8-ND | 3C | 6 | 7 | 0.7 | 1.8 | 1.43 | 13.4 | 300 | 46 |
| 10 | 7614-03C01000-U0BK8-ND | 3C | 10 | 7 | 0.7 | 1.8 | 1.43 | 15.6 | 440 | 55 |
| 11 | 7614-04C00150-U0BK8-ND | 4C | 1.5 | 7 | 0.7 | 1.8 | 1.43 | 11.0 | 165 | 36 |
| 12 | 7614-04C00250-U0BK8-ND | 4C | 2.5 | 7 | 0.7 | 1.8 | 1.43 | 12.1 | 210 | 41 |
| 13 | 7614-04C00400-U0BK8-ND | 4C | 4 | 7 | 0.7 | 1.8 | 1.43 | 13.3 | 280 | 45 |
| 14 | 7614-04C00600-U0BK8-ND | 4C | 6 | 7 | 0.7 | 1.8 | 1.43 | 14.7 | 375 | 51 |
| 15 | 7614-04C01000-U0BK8-ND | 4C | 10 | 7 | 0.7 | 1.8 | 1.43 | 17.0 | 550 | 60 |
| 16 | 7614-05C00150-U0BK8-ND-02 | 5C | 1.5 | 7 | 0.7 | 1.8 | 1.43 | 11.9 | 190 | 40 |
| 17 | 7614-05C00250-U0BK8-ND-02 | 5C | 2.5 | 7 | 0.7 | 1.8 | 1.43 | 13.0 | 250 | 44 |
| 18 | 7614-05C00400-U0BK8-ND-02 | 5C | 4 | 7 | 0.7 | 1.8 | 1.43 | 14.4 | 330 | 50 |
| 19 | 7614-05C00600-U0BK8-ND-02 | 5C | 6 | 7 | 0.7 | 1.8 | 1.43 | 16.0 | 450 | 56 |
| 20 | 7614-05C01000-U0BK8-ND-02 | 5C | 10 | 7 | 0.7 | 1.8 | 1.43 | 18.5 | 675 | 66 |

**TABLE: IEC 60332-1-2**
COMPACTED CIRCULAR CONDUCTOR:



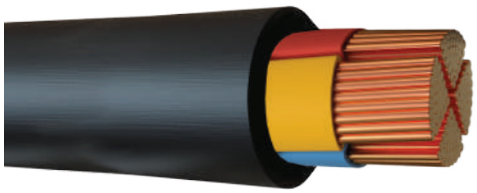
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76D4-02C01600-U0BK8-NE | 2C | 16 | 7 | 0.7 | 1.8 | 1.43 | 15.8 | 440 | 55 |
| 2 | 76D4-02C02500-U0BK8-NE | 2C | 25 | 7 | 0.9 | 1.8 | 1.43 | 19.2 | 640 | 69 |
| 3 | 76D4-02C03500-U0BK8-NE | 2C | 35 | 7 | 0.9 | 1.8 | 1.43 | 21.4 | 845 | 78 |
| 4 | 76D4-02C05000-U0BK8-NE | 2C | 50 | 19 | 1.0 | 1.8 | 1.43 | 24.5 | 1110 | 90 |
| 5 | 76D4-02C07000-U0BK8-NE | 2C | 70 | 19 | 1.1 | 1.8 | 1.43 | 27.9 | 1520 | 103 |
| 6 | 76D4-02C09500-U0BK8-NE | 2C | 95 | 19 | 1.1 | 1.9 | 1.52 | 31.4 | 2010 | 123 |
| 7 | 76D4-02C12000-U0BK8-NE | 2C | 120 | 19 | 1.2 | 2.0 | 1.60 | 34.9 | 2530 | 145 |
| 8 | 76D4-03C01600-U0BK8-NE | 3C | 16 | 7 | 0.7 | 1.8 | 1.43 | 17.0 | 600 | 60 |
| 9 | 76D4-03C02500-U0BK8-NE | 3C | 25 | 7 | 0.9 | 1.8 | 1.43 | 20.4 | 885 | 74 |
| 10 | 76D4-03C03500-U0BK8-NE | 3C | 35 | 7 | 0.9 | 1.8 | 1.43 | 22.8 | 1185 | 83 |
| 11 | 76D4-04C01600-U0BK8-NE | 4C | 16 | 7 | 0.7 | 1.8 | 1.43 | 18.6 | 770 | 66 |
| 12 | 76D4-05C01600-U0BK8-NE-02 | 5C | 16 | 7 | 0.7 | 1.8 | 1.43 | 20.1 | 935 | 72 |
| 13 | 76D4-05C02500-U0BK8-NE-02 | 5C | 25 | 7 | 0.9 | 1.8 | 1.43 | 24.6 | 1400 | 90 |
| 14 | 76D4-05C03500-U0BK8-NE-02 | 5C | 35 | 7 | 0.9 | 1.8 | 1.43 | 27.5 | 1885 | 102 |
| 15 | 76D4-05C05000-U0BK8-NE-02 | 5C | 50 | 19 | 1.0 | 1.9 | 1.52 | 31.9 | 2550 | 125 |
| 16 | 76D4-05C07000-U0BK8-NE-02 | 5C | 70 | 19 | 1.1 | 2.1 | 1.69 | 37.0 | 3575 | 161 |
| 17 | 76D4-05C09500-U0BK8-NE-02 | 5C | 95 | 19 | 1.1 | 2.2 | 1.77 | 41.6 | 4750 | 191 |
| 18 | 76D4-05C12000-U0BK8-NE-02 | 5C | 120 | 19 | 1.2 | 2.4 | 1.94 | 46.4 | 6000 | 232 |

**TABLE: IEC 60332-3-24 (CAT C)**
COMPACTED CIRCULAR CONDUCTOR:



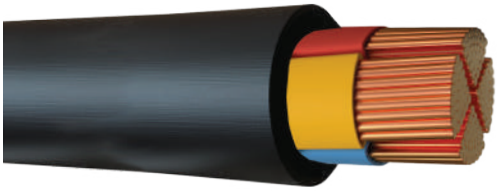
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76D4-02C01600-U0BK8-ND | 2C | 16 | 7 | 0.7 | 1.8 | 1.43 | 15.8 | 440 | 55 |
| 2 | 76D4-02C02500-U0BK8-ND | 2C | 25 | 7 | 0.9 | 1.8 | 1.43 | 19.2 | 640 | 69 |
| 3 | 76D4-02C03500-U0BK8-ND | 2C | 35 | 7 | 0.9 | 1.8 | 1.43 | 21.4 | 845 | 78 |
| 4 | 76D4-02C05000-U0BK8-ND | 2C | 50 | 19 | 1.0 | 1.8 | 1.43 | 24.5 | 1110 | 90 |
| 5 | 76D4-02C07000-U0BK8-ND | 2C | 70 | 19 | 1.1 | 1.8 | 1.43 | 27.9 | 1520 | 103 |
| 6 | 76D4-02C09500-U0BK8-ND | 2C | 95 | 19 | 1.1 | 1.9 | 1.52 | 31.4 | 2010 | 123 |
| 7 | 76D4-02C12000-U0BK8-ND | 2C | 120 | 19 | 1.2 | 2.0 | 1.60 | 34.9 | 2530 | 145 |
| 8 | 76D4-03C01600-U0BK8-ND | 3C | 16 | 7 | 0.7 | 1.8 | 1.43 | 17.0 | 600 | 60 |
| 9 | 76D4-03C02500-U0BK8-ND | 3C | 25 | 7 | 0.9 | 1.8 | 1.43 | 20.4 | 885 | 74 |
| 10 | 76D4-03C03500-U0BK8-ND | 3C | 35 | 7 | 0.9 | 1.8 | 1.43 | 22.8 | 1185 | 83 |
| 11 | 76D4-04C01600-U0BK8-ND | 4C | 16 | 7 | 0.7 | 1.8 | 1.43 | 18.6 | 770 | 66 |
| 12 | 76D4-05C01600-U0BK8-ND-02 | 5C | 16 | 7 | 0.7 | 1.8 | 1.43 | 20.1 | 935 | 72 |
| 13 | 76D4-05C02500-U0BK8-ND-02 | 5C | 25 | 7 | 0.9 | 1.8 | 1.43 | 24.6 | 1400 | 90 |
| 14 | 76D4-05C03500-U0BK8-ND-02 | 5C | 35 | 7 | 0.9 | 1.8 | 1.43 | 27.5 | 1885 | 102 |
| 15 | 76D4-05C05000-U0BK8-ND-02 | 5C | 50 | 19 | 1.0 | 1.9 | 1.52 | 31.9 | 2550 | 125 |
| 16 | 76D4-05C07000-U0BK8-ND-02 | 5C | 70 | 19 | 1.1 | 2.1 | 1.69 | 37.0 | 3575 | 161 |
| 17 | 76D4-05C09500-U0BK8-ND-02 | 5C | 95 | 19 | 1.1 | 2.2 | 1.77 | 41.6 | 4750 | 191 |
| 18 | 76D4-05C12000-U0BK8-ND-02 | 5C | 120 | 19 | 1.2 | 2.4 | 1.94 | 46.4 | 6000 | 232 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-U0BK8-NE | 3C | 25 | 7 | 0.9 | 1.8 | 1.43 | 17.9 | 850 | 64 |
| 2 | 76F4-03C03500-U0BK8-NE | 3C | 35 | 7 | 0.9 | 1.8 | 1.43 | 19.8 | 1140 | 71 |
| 3 | 76F4-03C05000-U0BK8-NE | 3C | 50 | 19 | 1.0 | 1.8 | 1.43 | 22.6 | 1525 | 82 |
| 4 | 76F4-03C07000-U0BK8-NE | 3C | 70 | 19 | 1.1 | 1.9 | 1.52 | 25.9 | 2150 | 100 |
| 5 | 76F4-03C09500-U0BK8-NE | 3C | 95 | 19 | 1.1 | 2.0 | 1.60 | 29.0 | 2850 | 119 |
| 6 | 76F4-03C12000-U0BK8-NE | 3C | 120 | 19 | 1.2 | 2.1 | 1.69 | 32.1 | 3590 | 138 |
| 7 | 76F4-04C02500-U0BK8-NE | 4C | 25 | 7 | 0.9 | 1.8 | 1.43 | 20.8 | 1125 | 75 |
| 8 | 76F4-04C03500-U0BK8-NE | 4C | 35 | 7 | 0.9 | 1.8 | 1.43 | 23.2 | 1500 | 85 |
| 9 | 76F4-04C05000-U0BK8-NE | 4C | 50 | 19 | 1.0 | 1.8 | 1.43 | 26.7 | 2040 | 99 |
| 10 | 76F4-04C07000-U0BK8-NE | 4C | 70 | 19 | 1.1 | 2.0 | 1.60 | 30.9 | 2870 | 127 |
| 11 | 76F4-04C09500-U0BK8-NE | 4C | 95 | 19 | 1.1 | 2.1 | 1.69 | 34.6 | 3800 | 150 |
| 12 | 76F4-04C12000-U0BK8-NE | 4C | 120 | 19 | 1.2 | 2.3 | 1.86 | 38.6 | 4810 | 184 |

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-U0BK8-ND | 3C | 25 | 7 | 0.9 | 1.8 | 1.43 | 17.9 | 850 | 64 |
| 2 | 76F4-03C03500-U0BK8-ND | 3C | 35 | 7 | 0.9 | 1.8 | 1.43 | 19.8 | 1140 | 71 |
| 3 | 76F4-03C05000-U0BK8-ND | 3C | 50 | 19 | 1.0 | 1.8 | 1.43 | 22.6 | 1525 | 82 |
| 4 | 76F4-03C07000-U0BK8-ND | 3C | 70 | 19 | 1.1 | 1.9 | 1.52 | 25.9 | 2150 | 100 |
| 5 | 76F4-03C09500-U0BK8-ND | 3C | 95 | 19 | 1.1 | 2.0 | 1.60 | 29.0 | 2850 | 119 |
| 6 | 76F4-03C12000-U0BK8-ND | 3C | 120 | 19 | 1.2 | 2.1 | 1.69 | 32.1 | 3590 | 138 |
| 7 | 76F4-04C02500-U0BK8-ND | 4C | 25 | 7 | 0.9 | 1.8 | 1.43 | 20.8 | 1125 | 75 |
| 8 | 76F4-04C03500-U0BK8-ND | 4C | 35 | 7 | 0.9 | 1.8 | 1.43 | 23.2 | 1500 | 85 |
| 9 | 76F4-04C05000-U0BK8-ND | 4C | 50 | 19 | 1.0 | 1.8 | 1.43 | 26.7 | 2040 | 99 |
| 10 | 76F4-04C07000-U0BK8-ND | 4C | 70 | 19 | 1.1 | 2.0 | 1.60 | 30.9 | 2870 | 127 |
| 11 | 76F4-04C09500-U0BK8-ND | 4C | 95 | 19 | 1.1 | 2.1 | 1.69 | 34.6 | 3800 | 150 |
| 12 | 76F4-04C12000-U0BK8-ND | 4C | 120 | 19 | 1.2 | 2.3 | 1.86 | 38.6 | 4810 | 184 |

# LV POWER, SINGLE CORE, ARMOURED CABLE

CU/XLPE/PVC/AWA/PVC

SPECIFICATION: BS 5467

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to BS 7655-1.3. |
| Color Code* | 1C: Black |
| Bedding | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of Aluminium wire armor is applied over the inner sheath. |
| Outer Sheath** | Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black. |
| Marking on the sheath | Example – ELECTRIC CABLE CU/XLPE/AWA/PVC 600/1000V BS 5467 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2**
**CIRCULAR CONDUCTOR:**

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | MIN. NO. OF STRANDS | INSULATION THICKNESS (MM) | BEDDING THICKNESS (MM) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76D4-01C05000-A0BK8-NF | 1C | 50 | 19 | 1.0 | 0.8 | 12.1 | 1.6** | 15.1 | 1.5 | 1.00 | 18.1 | 736 | 54 |
| 2 | 76D4-01C07000-A0BK8-NF | 1C | 70 | 19 | 1.1 | 0.8 | 13.9 | 1.6** | 17.1 | 1.5 | 1.00 | 19.9 | 953 | 60 |
| 3 | 76D4-01C09500-A0BK8-NF | 1C | 95 | 19 | 1.1 | 0.8 | 15.5 | 1.6** | 18.7 | 1.6 | 1.08 | 21.7 | 1230 | 70 |
| 4 | 76D4-01C12000-A0BK8-NF | 1C | 120 | 19 | 1.2 | 0.8 | 17.1 | 1.6** | 20.3 | 1.6 | 1.08 | 23.3 | 1495 | 76 |
| 5 | 76D4-01C15000-A0BK8-NF | 1C | 150 | 19 | 1.4 | 1.0 | 19.5 | 1.6 | 22.7 | 1.7 | 1.16 | 25.7 | 1825 | 90 |
| 6 | 76D4-01C18500-A0BK8-NF | 1C | 185 | 37 | 1.6 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 2225 | 103 |
| 7 | 76D4-01C24000-A0BK8-NF | 1C | 240 | 37 | 1.7 | 1.0 | 23.9 | 1.6 | 27.1 | 1.8 | 1.24 | 30.3 | 2800 | 113 |
| 8 | 76D4-01C30000-A0BK8-NF | 1C | 300 | 37 | 1.8 | 1.0 | 26.2 | 1.6 | 29.4 | 1.9 | 1.32 | 32.8 | 3400 | 129 |
| 9 | 76D4-01C40000-A0BK8-NF | 1C | 400 | 61 | 2.0 | 1.2 | 30.2 | 2.0 | 34.2 | 2.0 | 1.40 | 37.8 | 4400 | 157 |
| 10 | 76D4-01C50000-A0BK8-NF | 1C | 500 | 61 | 2.2 | 1.2 | 33.4 | 2.0 | 37.4 | 2.1 | 1.48 | 41.2 | 5525 | 181 |
| 11 | 76D4-01C63000-A0BK8-NF | 1C | 630 | 61 | 2.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.2 | 1.56 | 45.3 | 6950 | 208 |
| 12 | 76D4-01C80000-A0BK8-NF | 1C | 800 | 61 | 2.6 | 1.4 | 41.9 | 2.5 | 46.9 | 2.4 | 1.72 | 51.3 | 9180 | 258 |
| 13 | 76D4-1C100000-A0BK8-NF | 1C | 1000 | 61 | 2.8 | 1.4 | 46.9 | 2.5 | 51.9 | 2.5 | 1.80 | 56.5 | 11350 | 297 |
| 14 | 7614-01C80000-A0BK8-NF* | 1C | 800 | 91 | 2.6 | 1.4 | 45.3 | 2.5 | 50.3 | 2.4 | 1.72 | 54.7 | 9300 | 276 |
| 15 | 7614-1C100000-A0BK8-NF* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.5 | 1.80 | 59.8 | 11450 | 315 |

*Non-Compacted circular conductor, all other compacted circular conductor
** Wire diameter larger from specified BS 5467

**TABLE: IEC 60332-3-24 (CAT C)**
**CIRCULAR CONDUCTOR:**

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | MIN. NO. OF STRANDS | INSULATION THICKNESS (MM) | BEDDING THICKNESS (MM) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76D4-01C05000-A0BK8-01 | 1C | 50 | 19 | 1.0 | 0.8 | 12.1 | 1.6** | 15.1 | 1.5 | 1.00 | 18.1 | 736 | 54 |
| 2 | 76D4-01C07000-A0BK8-01 | 1C | 70 | 19 | 1.1 | 0.8 | 13.9 | 1.6** | 17.1 | 1.5 | 1.00 | 19.9 | 953 | 60 |
| 3 | 76D4-01C09500-A0BK8-01 | 1C | 95 | 19 | 1.1 | 0.8 | 15.5 | 1.6** | 18.7 | 1.6 | 1.08 | 21.7 | 1230 | 70 |
| 4 | 76D4-01C12000-A0BK8-01 | 1C | 120 | 19 | 1.2 | 0.8 | 17.1 | 1.6** | 20.3 | 1.6 | 1.08 | 23.3 | 1495 | 76 |
| 5 | 76D4-01C15000-A0BK8-01 | 1C | 150 | 19 | 1.4 | 1.0 | 19.5 | 1.6 | 22.7 | 1.7 | 1.16 | 25.7 | 1825 | 90 |
| 6 | 76D4-01C18500-A0BK8-01 | 1C | 185 | 37 | 1.6 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 2225 | 103 |
| 7 | 76D4-01C24000-A0BK8-01 | 1C | 240 | 37 | 1.7 | 1.0 | 23.9 | 1.6 | 27.1 | 1.8 | 1.24 | 30.3 | 2800 | 113 |
| 8 | 76D4-01C30000-A0BK8-01 | 1C | 300 | 37 | 1.8 | 1.0 | 26.2 | 1.6 | 29.4 | 1.9 | 1.32 | 32.8 | 3400 | 129 |
| 9 | 76D4-01C40000-A0BK8-01 | 1C | 400 | 61 | 2.0 | 1.2 | 30.2 | 2.0 | 34.2 | 2.0 | 1.40 | 37.8 | 4400 | 157 |
| 10 | 76D4-01C50000-A0BK8-01 | 1C | 500 | 61 | 2.2 | 1.2 | 33.4 | 2.0 | 37.4 | 2.1 | 1.48 | 41.2 | 5525 | 181 |
| 11 | 76D4-01C63000-A0BK8-01 | 1C | 630 | 61 | 2.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.2 | 1.56 | 45.3 | 6950 | 208 |
| 12 | 76D4-01C80000-A0BK8-01 | 1C | 800 | 61 | 2.6 | 1.4 | 41.9 | 2.5 | 46.9 | 2.4 | 1.72 | 51.3 | 9180 | 258 |
| 13 | 76D4-1C100000-A0BK8-01 | 1C | 1000 | 61 | 2.8 | 1.4 | 46.9 | 2.5 | 51.9 | 2.5 | 1.80 | 56.5 | 11350 | 297 |
| 14 | 7614-01C80000-A0BK8-01* | 1C | 800 | 91 | 2.6 | 1.4 | 45.3 | 2.5 | 50.3 | 2.4 | 1.72 | 54.7 | 9300 | 276 |
| 15 | 7614-1C100000-A0BK8-01* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.5 | 1.80 | 59.8 | 11450 | 315 |

*Non-Compacted circular conductor, all other compacted circular conductor
** Wire diameter larger from specified BS 5467

# LV POWER, MULTI CORE, ARMOURED CABLE

CU/XLPE/PVC/SWA/PVC

SPECIFICATION: BS 5467

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to BS 7655-1.3. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Bedding | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of galvanized steel wire armor is applied over the inner sheath. |
| Outer Sheath** | Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black. |
| Marking on the sheath | Example – ELECTRIC CABLE CU/XLPE/SWA/PVC 600/1000V BS 5467 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-NF* | 2C | 1.5 | 7 | 0.6 | 0.8 | 7.6 | 0.9 | 9.4 | 1.3 | 0.84 | 11.6 | 265 | 29 |
| 2 | 7614-02C00250-W0BK8-NF* | 2C | 2.5 | 7 | 0.7 | 0.8 | 8.8 | 0.9 | 10.6 | 1.4 | 0.92 | 13.0 | 320 | 36 |
| 3 | 7614-02C00400-W0BK8-NF* | 2C | 4 | 7 | 0.7 | 0.8 | 9.8 | 0.9 | 11.6 | 1.4 | 0.92 | 14.0 | 370 | 39 |
| 4 | 7614-02C00600-W0BK8-NF* | 2C | 6 | 7 | 0.7 | 0.8 | 11.0 | 0.9 | 12.8 | 1.4 | 0.92 | 15.2 | 445 | 42 |
| 5 | 7614-02C01000-W0BK8-NF* | 2C | 10 | 7 | 0.7 | 0.8 | 12.9 | 0.9 | 14.7 | 1.5 | 1.00 | 17.3 | 585 | 52 |
| 6 | 76D4-02C01600-W0BK8-NF | 2C | 16 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 19.3 | 815 | 59 |
| 7 | 76D4-02C02500-W0BK8-NF | 2C | 25 | 7 | 0.9 | 0.8 | 17.4 | 1.25 | 19.9 | 1.6 | 1.08 | 22.7 | 1105 | 74 |
| 8 | 76D4-02C03500-W0BK8-NF | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.6 | 23.2 | 1.7 | 1.16 | 26.2 | 1550 | 92 |
| 9 | 76D4-02C05000-W0BK8-NF | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.6 | 26.3 | 1.9 | 1.32 | 29.7 | 1950 | 116 |
| 10 | 76D4-02C07000-W0BK8-NF | 2C | 70 | 19 | 1.1 | 1.2 | 26.9 | 2.0 | 30.9 | 2.0 | 1.40 | 34.5 | 2745 | 143 |
| 11 | 76D4-02C09500-W0BK8-NF | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3385 | 166 |
| 12 | 76D4-02C12000-W0BK8-NF | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.0 | 37.5 | 2.1 | 1.48 | 41.3 | 4010 | 181 |
| 13 | 7614-03C00150-W0BK8-NF* | 3C | 1.5 | 7 | 0.6 | 0.8 | 8.0 | 0.9 | 9.8 | 1.3 | 0.84 | 12.0 | 290 | 31 |
| 14 | 7614-03C00250-W0BK8-NF* | 3C | 2.5 | 7 | 0.7 | 0.8 | 9.4 | 0.9 | 11.2 | 1.4 | 0.92 | 13.6 | 360 | 38 |
| 15 | 7614-03C00400-W0BK8-NF* | 3C | 4 | 7 | 0.7 | 0.8 | 10.5 | 0.9 | 12.3 | 1.4 | 0.92 | 14.7 | 425 | 41 |
| 16 | 7614-03C00600-W0BK8-NF* | 3C | 6 | 7 | 0.7 | 0.8 | 11.8 | 0.9 | 13.6 | 1.4 | 0.92 | 16.0 | 525 | 45 |
| 17 | 7614-03C01000-W0BK8-NF* | 3C | 10 | 7 | 0.7 | 0.8 | 13.8 | 1.25 | 16.3 | 1.5 | 1.00 | 18.9 | 810 | 57 |
| 18 | 76D4-03C01600-W0BK8-NF | 3C | 16 | 7 | 0.7 | 0.8 | 15.2 | 1.25 | 17.7 | 1.6 | 1.08 | 20.5 | 1015 | 66 |
| 19 | 76D4-03C02500-W0BK8-NF | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.6 | 22.2 | 1.7 | 1.16 | 25.2 | 1550 | 88 |
| 20 | 76D4-03C03500-W0BK8-NF | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.6 | 24.6 | 1.8 | 1.24 | 27.8 | 1950 | 103 |
| 21 | 7614-04C00150-W0BK8-NF* | 4C | 1.5 | 7 | 0.6 | 0.8 | 8.8 | 0.9 | 10.6 | 1.3 | 0.84 | 12.8 | 330 | 33 |
| 22 | 7614-04C00250-W0BK8-NF* | 4C | 2.5 | 7 | 0.7 | 0.8 | 10.3 | 0.9 | 12.1 | 1.4 | 0.92 | 14.5 | 410 | 40 |
| 23 | 7614-04C00400-W0BK8-NF* | 4C | 4 | 7 | 0.7 | 0.8 | 11.5 | 0.9 | 13.3 | 1.4 | 0.92 | 15.7 | 505 | 44 |
| 24 | 7614-04C00600-W0BK8-NF* | 4C | 6 | 7 | 0.7 | 0.8 | 13.0 | 1.25 | 15.4 | 1.5 | 1.00 | 18.0 | 720 | 54 |
| 25 | 7614-04C01000-W0BK8-NF* | 4C | 10 | 7 | 0.7 | 0.8 | 15.2 | 1.25 | 17.7 | 1.5 | 1.00 | 20.3 | 950 | 62 |
| 26 | 76D4-04C01600-W0BK8-NF | 4C | 16 | 7 | 0.7 | 0.8 | 16.8 | 1.25 | 19.3 | 1.6 | 1.08 | 22.1 | 1225 | 72 |
| 27 | 7614-05C00150-W0BK8-NF-02* | 5C | 1.5 | 7 | 0.6 | 0.8 | 9.5 | 0.9 | 11.3 | 1.4 | 0.92 | 13.7 | 350 | 38 |
| 28 | 7614-05C00250-W0BK8-NF-02* | 5C | 2.5 | 7 | 0.7 | 0.8 | 11.2 | 0.9 | 13.0 | 1.4 | 0.92 | 15.4 | 455 | 43 |
| 29 | 7614-05C00400-W0BK8-NF-02* | 5C | 4 | 7 | 0.7 | 0.8 | 12.6 | 0.9 | 14.4 | 1.5 | 1.00 | 17.0 | 575 | 51 |
| 30 | 7614-05C00600-W0BK8-NF-02* | 5C | 6 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 19.3 | 825 | 59 |
| 31 | 7614-05C01000-W0BK8-NF-02* | 5C | 10 | 7 | 0.7 | 0.8 | 16.7 | 1.25 | 19.2 | 1.6 | 1.08 | 22.0 | 1125 | 72 |
| 32 | 76D4-05C01600-W0BK8-NF-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.6 | 22.1 | 1.7 | 1.16 | 25.1 | 1600 | 87 |
| 33 | 76D4-05C02500-W0BK8-NF-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.6 | 26.4 | 1.8 | 1.24 | 29.6 | 2225 | 110 |
| 34 | 76D4-05C03500-W0BK8-NF-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2825 | 129 |
| 35 | 76D4-05C05000-W0BK8-NF-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 34.7 | 2.0 | 1.40 | 38.3 | 3890 | 160 |
| 36 | 76D4-05C07000-W0BK8-NF-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.0 | 39.4 | 2.2 | 1.56 | 43.4 | 5150 | 199 |

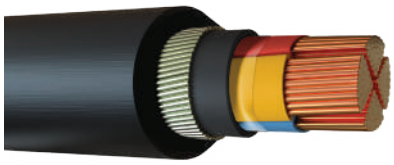
*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-01* | 2C | 1.5 | 7 | 0.6 | 0.8 | 7.6 | 0.9 | 9.4 | 1.3 | 0.84 | 11.6 | 265 | 29 |
| 2 | 7614-02C00250-W0BK8-01* | 2C | 2.5 | 7 | 0.7 | 0.8 | 8.8 | 0.9 | 10.6 | 1.4 | 0.92 | 13.0 | 320 | 36 |
| 3 | 7614-02C00400-W0BK8-01* | 2C | 4 | 7 | 0.7 | 0.8 | 9.8 | 0.9 | 11.6 | 1.4 | 0.92 | 14.0 | 370 | 39 |
| 4 | 7614-02C00600-W0BK8-01* | 2C | 6 | 7 | 0.7 | 0.8 | 11.0 | 0.9 | 12.8 | 1.4 | 0.92 | 15.2 | 445 | 42 |
| 5 | 7614-02C01000-W0BK8-01* | 2C | 10 | 7 | 0.7 | 0.8 | 12.9 | 0.9 | 14.7 | 1.5 | 1.00 | 17.3 | 585 | 52 |
| 6 | 76D4-02C01600-W0BK8-01 | 2C | 16 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 19.3 | 815 | 59 |
| 7 | 76D4-02C02500-W0BK8-01 | 2C | 25 | 7 | 0.9 | 0.8 | 17.4 | 1.25 | 19.9 | 1.6 | 1.08 | 22.7 | 1105 | 74 |
| 8 | 76D4-02C03500-W0BK8-01 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.6 | 23.2 | 1.7 | 1.16 | 26.2 | 1550 | 92 |
| 9 | 76D4-02C05000-W0BK8-01 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.6 | 26.3 | 1.9 | 1.32 | 29.7 | 1950 | 116 |
| 10 | 76D4-02C07000-W0BK8-01 | 2C | 70 | 19 | 1.1 | 1.2 | 26.9 | 2.0 | 30.9 | 2.0 | 1.40 | 34.5 | 2745 | 143 |
| 11 | 76D4-02C09500-W0BK8-01 | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3385 | 166 |
| 12 | 76D4-02C12000-W0BK8-01 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.0 | 37.5 | 2.1 | 1.48 | 41.3 | 4010 | 181 |
| 13 | 7614-03C00150-W0BK8-01* | 3C | 1.5 | 7 | 0.6 | 0.8 | 8.0 | 0.9 | 9.8 | 1.3 | 0.84 | 12.0 | 290 | 31 |
| 14 | 7614-03C00250-W0BK8-01* | 3C | 2.5 | 7 | 0.7 | 0.8 | 9.4 | 0.9 | 11.2 | 1.4 | 0.92 | 13.6 | 360 | 38 |
| 15 | 7614-03C00400-W0BK8-01* | 3C | 4 | 7 | 0.7 | 0.8 | 10.5 | 0.9 | 12.3 | 1.4 | 0.92 | 14.7 | 425 | 41 |
| 16 | 7614-03C00600-W0BK8-01* | 3C | 6 | 7 | 0.7 | 0.8 | 11.8 | 0.9 | 13.6 | 1.4 | 0.92 | 16.0 | 525 | 45 |
| 17 | 7614-03C01000-W0BK8-01* | 3C | 10 | 7 | 0.7 | 0.8 | 13.8 | 1.25 | 16.3 | 1.5 | 1.00 | 18.9 | 810 | 57 |
| 18 | 76D4-03C01600-W0BK8-01 | 3C | 16 | 7 | 0.7 | 0.8 | 15.2 | 1.25 | 17.7 | 1.6 | 1.08 | 20.5 | 1015 | 66 |
| 19 | 76D4-03C02500-W0BK8-01 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.6 | 22.2 | 1.7 | 1.16 | 25.2 | 1550 | 88 |
| 20 | 76D4-03C03500-W0BK8-01 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.6 | 24.6 | 1.8 | 1.24 | 27.8 | 1950 | 103 |
| 21 | 7614-04C00150-W0BK8-01* | 4C | 1.5 | 7 | 0.6 | 0.8 | 8.8 | 0.9 | 10.6 | 1.3 | 0.84 | 12.8 | 330 | 33 |
| 22 | 7614-04C00250-W0BK8-01* | 4C | 2.5 | 7 | 0.7 | 0.8 | 10.3 | 0.9 | 12.1 | 1.4 | 0.92 | 14.5 | 410 | 40 |
| 23 | 7614-04C00400-W0BK8-01* | 4C | 4 | 7 | 0.7 | 0.8 | 11.5 | 0.9 | 13.3 | 1.4 | 0.92 | 15.7 | 505 | 44 |
| 24 | 7614-04C00600-W0BK8-01* | 4C | 6 | 7 | 0.7 | 0.8 | 13.0 | 1.25 | 15.4 | 1.5 | 1.00 | 18.0 | 720 | 54 |
| 25 | 7614-04C01000-W0BK8-01* | 4C | 10 | 7 | 0.7 | 0.8 | 15.2 | 1.25 | 17.7 | 1.5 | 1.00 | 20.3 | 950 | 62 |
| 26 | 76D4-04C01600-W0BK8-01 | 4C | 16 | 7 | 0.7 | 0.8 | 16.8 | 1.25 | 19.3 | 1.6 | 1.08 | 22.1 | 1225 | 72 |
| 27 | 7614-05C00150-W0BK8-01-02* | 5C | 1.5 | 7 | 0.6 | 0.8 | 9.5 | 0.9 | 11.3 | 1.4 | 0.92 | 13.7 | 350 | 38 |
| 28 | 7614-05C00250-W0BK8-01-02* | 5C | 2.5 | 7 | 0.7 | 0.8 | 11.2 | 0.9 | 13.0 | 1.4 | 0.92 | 15.4 | 455 | 43 |
| 29 | 7614-05C00400-W0BK8-01-02* | 5C | 4 | 7 | 0.7 | 0.8 | 12.6 | 0.9 | 14.4 | 1.5 | 1.00 | 17.0 | 575 | 51 |
| 30 | 7614-05C00600-W0BK8-01-02* | 5C | 6 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 19.3 | 825 | 59 |
| 31 | 7614-05C01000-W0BK8-01-02* | 5C | 10 | 7 | 0.7 | 0.8 | 16.7 | 1.25 | 19.2 | 1.6 | 1.08 | 22.0 | 1125 | 72 |
| 32 | 76D4-05C01600-W0BK8-01-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.6 | 22.1 | 1.7 | 1.16 | 25.1 | 1600 | 87 |
| 33 | 76D4-05C02500-W0BK8-01-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.6 | 26.4 | 1.8 | 1.24 | 29.6 | 2225 | 110 |
| 34 | 76D4-05C03500-W0BK8-01-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2825 | 129 |
| 35 | 76D4-05C05000-W0BK8-01-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 34.7 | 2.0 | 1.40 | 38.3 | 3890 | 160 |
| 36 | 76D4-05C07000-W0BK8-01-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.0 | 39.4 | 2.2 | 1.56 | 43.4 | 5150 | 199 |

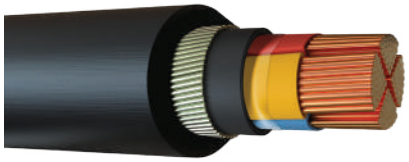
*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-02C15000-W0BK8-NF | 2C | 150 | 19 | 1.4 | 1.2 | 27.9 | 2.0 | 31.9 | 2.2 | 1.56 | 35.9 | 4200 | 163 |
| 2 | 76F4-02C18500-W0BK8-NF | 2C | 185 | 37 | 1.6 | 1.4 | 31.3 | 2.5 | 36.3 | 2.4 | 1.72 | 40.7 | 5400 | 202 |
| 3 | 76F4-02C24000-W0BK8-NF | 2C | 240 | 37 | 1.7 | 1.4 | 34.7 | 2.5 | 39.7 | 2.5 | 1.80 | 44.3 | 6700 | 230 |
| 4 | 76F4-02C30000-W0BK8-NF | 2C | 300 | 37 | 1.8 | 1.6 | 38.4 | 2.5 | 43.4 | 2.6 | 1.88 | 48.2 | 8150 | 261 |
| 5 | 76F4-02C40000-W0BK8-NF | 2C | 400 | 61 | 2.0 | 1.6 | 43.5 | 2.5 | 48.5 | 2.8 | 2.04 | 53.7 | 10005 | 313 |
| 6 | 76F4-03C02500-W0BK8-NF | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.6 | 19.7 | 1.7 | 1.16 | 22.7 | 1450 | 78 |
| 7 | 76F4-03C03500-W0BK8-NF | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1800 | 91 |
| 8 | 76F4-03C05000-W0BK8-NF | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.6 | 24.4 | 1.8 | 1.24 | 27.6 | 2290 | 102 |
| 9 | 76F4-03C07000-W0BK8-NF | 3C | 70 | 19 | 1.1 | 1.0 | 24.3 | 1.6 | 27.5 | 1.9 | 1.32 | 30.9 | 3020 | 121 |
| 10 | 76F4-03C09500-W0BK8-NF | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.0 | 31.6 | 2.1 | 1.48 | 35.4 | 4100 | 154 |
| 11 | 76F4-03C12000-W0BK8-NF | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.0 | 34.5 | 2.2 | 1.56 | 38.5 | 4950 | 176 |
| 12 | 76F4-03C15000-W0BK8-NF | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 2.5 | 39.4 | 2.3 | 1.64 | 43.6 | 6350 | 209 |
| 13 | 76F4-03C18500-W0BK8-NF | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.5 | 43.0 | 2.4 | 1.72 | 47.4 | 7550 | 237 |
| 14 | 76F4-03C24000-W0BK8-NF | 3C | 240 | 37 | 1.7 | 1.4 | 42.3 | 2.5 | 47.3 | 2.6 | 1.88 | 52.1 | 9470 | 283 |
| 15 | 76F4-03C30000-W0BK8-NF | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 2.5 | 51.9 | 2.7 | 1.96 | 56.9 | 11600 | 322 |
| 16 | 76F4-03C40000-W0BK8-NF | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 2.5 | 58.3 | 2.9 | 2.12 | 63.7 | 14275 | 388 |
| 17 | 76F4-04C02500-W0BK8-NF | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.6 | 22.6 | 1.7 | 1.16 | 25.6 | 1800 | 89 |
| 18 | 76F4-04C03500-W0BK8-NF | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.6 | 25.0 | 1.8 | 1.24 | 28.2 | 2275 | 104 |
| 19 | 76F4-04C05000-W0BK8-NF | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 1.6 | 28.5 | 1.9 | 1.32 | 31.9 | 2945 | 125 |
| 20 | 76F4-04C07000-W0BK8-NF | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.0 | 33.5 | 2.1 | 1.48 | 37.3 | 4175 | 163 |
| 21 | 76F4-04C09500-W0BK8-NF | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.0 | 37.0 | 2.2 | 1.56 | 41.0 | 5280 | 188 |
| 22 | 76F4-04C12000-W0BK8-NF | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.5 | 42.0 | 2.3 | 1.64 | 46.2 | 6845 | 222 |
| 23 | 76F4-04C15000-W0BK8-NF | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.5 | 46.3 | 2.4 | 1.72 | 50.7 | 8170 | 255 |
| 24 | 76F4-04C18500-W0BK8-NF | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.5 | 50.7 | 2.6 | 1.88 | 55.5 | 9800 | 302 |
| 25 | 76F4-04C24000-W0BK8-NF | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 2.5 | 56.4 | 2.7 | 1.96 | 61.4 | 12375 | 348 |
| 26 | 76F4-04C30000-W0BK8-NF | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 2.5 | 61.6 | 2.9 | 2.12 | 67.0 | 15150 | 409 |
| 27 | 76F4-04C40000-W0BK8-NF | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 3.15 | 71.2 | 3.2 | 2.36 | 77.2 | 19600 | 521 |

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-02C15000-W0BK8-01 | 2C | 150 | 19 | 1.4 | 1.2 | 27.9 | 2.0 | 31.9 | 2.2 | 1.56 | 35.9 | 4200 | 163 |
| 2 | 76F4-02C18500-W0BK8-01 | 2C | 185 | 37 | 1.6 | 1.4 | 31.3 | 2.5 | 36.3 | 2.4 | 1.72 | 40.7 | 5400 | 202 |
| 3 | 76F4-02C24000-W0BK8-01 | 2C | 240 | 37 | 1.7 | 1.4 | 34.7 | 2.5 | 39.7 | 2.5 | 1.80 | 44.3 | 6700 | 230 |
| 4 | 76F4-02C30000-W0BK8-01 | 2C | 300 | 37 | 1.8 | 1.6 | 38.4 | 2.5 | 43.4 | 2.6 | 1.88 | 48.2 | 8150 | 261 |
| 5 | 76F4-02C40000-W0BK8-01 | 2C | 400 | 61 | 2.0 | 1.6 | 43.5 | 2.5 | 48.5 | 2.8 | 2.04 | 53.7 | 10005 | 313 |
| 6 | 76F4-03C02500-W0BK8-01 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.6 | 19.7 | 1.7 | 1.16 | 22.7 | 1450 | 78 |
| 7 | 76F4-03C03500-W0BK8-01 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1800 | 91 |
| 8 | 76F4-03C05000-W0BK8-01 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.6 | 24.4 | 1.8 | 1.24 | 27.6 | 2290 | 102 |
| 9 | 76F4-03C07000-W0BK8-01 | 3C | 70 | 19 | 1.1 | 1.0 | 24.3 | 1.6 | 27.5 | 1.9 | 1.32 | 30.9 | 3020 | 121 |
| 10 | 76F4-03C09500-W0BK8-01 | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.0 | 31.6 | 2.1 | 1.48 | 35.4 | 4100 | 154 |
| 11 | 76F4-03C12000-W0BK8-01 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.0 | 34.5 | 2.2 | 1.56 | 38.5 | 4950 | 176 |
| 12 | 76F4-03C15000-W0BK8-01 | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 2.5 | 39.4 | 2.3 | 1.64 | 43.6 | 6350 | 209 |
| 13 | 76F4-03C18500-W0BK8-01 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.5 | 43.0 | 2.4 | 1.72 | 47.4 | 7550 | 237 |
| 14 | 76F4-03C24000-W0BK8-01 | 3C | 240 | 37 | 1.7 | 1.4 | 42.3 | 2.5 | 47.3 | 2.6 | 1.88 | 52.1 | 9470 | 283 |
| 15 | 76F4-03C30000-W0BK8-01 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 2.5 | 51.9 | 2.7 | 1.96 | 56.9 | 11600 | 322 |
| 16 | 76F4-03C40000-W0BK8-01 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 2.5 | 58.3 | 2.9 | 2.12 | 63.7 | 14275 | 388 |
| 17 | 76F4-04C02500-W0BK8-01 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.6 | 22.6 | 1.7 | 1.16 | 25.6 | 1800 | 89 |
| 18 | 76F4-04C03500-W0BK8-01 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.6 | 25.0 | 1.8 | 1.24 | 28.2 | 2275 | 104 |
| 19 | 76F4-04C05000-W0BK8-01 | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 1.6 | 28.5 | 1.9 | 1.32 | 31.9 | 2945 | 125 |
| 20 | 76F4-04C07000-W0BK8-01 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.0 | 33.5 | 2.1 | 1.48 | 37.3 | 4175 | 163 |
| 21 | 76F4-04C09500-W0BK8-01 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.0 | 37.0 | 2.2 | 1.56 | 41.0 | 5280 | 188 |
| 22 | 76F4-04C12000-W0BK8-01 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.5 | 42.0 | 2.3 | 1.64 | 46.2 | 6845 | 222 |
| 23 | 76F4-04C15000-W0BK8-01 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.5 | 46.3 | 2.4 | 1.72 | 50.7 | 8170 | 255 |
| 24 | 76F4-04C18500-W0BK8-01 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.5 | 50.7 | 2.6 | 1.88 | 55.5 | 9800 | 302 |
| 25 | 76F4-04C24000-W0BK8-01 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 2.5 | 56.4 | 2.7 | 1.96 | 61.4 | 12375 | 348 |
| 26 | 76F4-04C30000-W0BK8-01 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 2.5 | 61.6 | 2.9 | 2.12 | 67.0 | 15150 | 409 |
| 27 | 76F4-04C40000-W0BK8-01 | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 3.15 | 71.2 | 3.2 | 2.36 | 77.2 | 19600 | 521 |

# CONTROL MULTI CORE, ARMOURED CABLE

CU/XLPE/PVC/SWA/PVC

SPECIFICATION: BS 5467


| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to BS 7655-1.3. |
| Color Code* | Black cores with number printing on each core |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Bedding | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of galvanized steel wire armor is applied over the inner sheath. |
| Outer Sheath** | Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black. |
| Marking on the sheath | Example – ELECTRIC CABLE CU/XLPE/SWA/PVC 600/1000V AUX BS 5467 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1**
**NON-COMPACTED CIRCULAR CONDUCTOR:**


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-07C00150-W0BK8-NF | 7C | 1.5 | 7 | 0.6 | 0.8 | 10.6 | 0.9 | 12.4 | 1.4 | 0.92 | 15.2 | 453 | 42 |
| 2 | 7614-12C00150-W0BK8-NF | 12C | 1.5 | 7 | 0.6 | 0.8 | 13.9 | 1.25 | 16.4 | 1.5 | 1.00 | 19.5 | 760 | 59 |
| 3 | 7614-19C00150-W0BK8-NF | 19C | 1.5 | 7 | 0.6 | 0.8 | 16.3 | 1.25 | 18.8 | 1.6 | 1.08 | 22.1 | 982 | 72 |
| 4 | 7614-27C00150-W0BK8-NF | 27C | 1.5 | 7 | 0.6 | 1.0 | 20.1 | 1.6 | 23.3 | 1.7 | 1.16 | 26.7 | 1429 | 94 |
| 5 | 7614-37C00150-W0BK8-NF | 37C | 1.5 | 7 | 0.6 | 1.0 | 22.5 | 1.6 | 25.7 | 1.7 | 1.16 | 29.2 | 1736 | 103 |
| 6 | 7614-07C00250-W0BK8-NF | 7C | 2.5 | 7 | 0.7 | 0.8 | 12.5 | 0.9 | 14.3 | 1.4 | 0.92 | 17.7 | 621 | 50 |
| 7 | 7614-12C00250-W0BK8-NF | 12C | 2.5 | 7 | 0.7 | 0.8 | 16.6 | 1.25 | 19.1 | 1.6 | 1.08 | 22.9 | 1041 | 75 |
| 8 | 7614-19C00250-W0BK8-NF | 19C | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 1.6 | 22.6 | 1.7 | 1.16 | 25.6 | 1430 | 95 |
| 9 | 7614-27C00250-W0BK8-NF | 27C | 2.5 | 7 | 0.7 | 1.0 | 23.3 | 1.6 | 26.5 | 1.8 | 1.24 | 29.7 | 1825 | 118 |
| 10 | 7614-37C00250-W0BK8-NF | 37C | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 1.6 | 29.4 | 1.8 | 1.24 | 32.6 | 2235 | 129 |
| 11 | 7614-07C00400-W0BK8-NF | 7C | 4 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 20.3 | 880 | 62 |
| 12 | 7614-12C00400-W0BK8-NF | 12C | 4 | 7 | 0.7 | 1.0 | 19.3 | 1.6 | 22.5 | 1.6 | 1.08 | 26.3 | 1465 | 87 |
| 13 | 7614-19C00400-W0BK8-NF | 19C | 4 | 7 | 0.7 | 1.0 | 22.0 | 1.6 | 25.2 | 1.7 | 1.16 | 28.1 | 1800 | 105 |
| 14 | 7614-27C00400-W0BK8-NF | 27C | 4 | 7 | 0.7 | 1.0 | 26.5 | 1.6 | 29.7 | 1.9 | 1.32 | 33.1 | 2375 | 139 |
| 15 | 7614-37C00400-W0BK8-NF | 37C | 4 | 7 | 0.7 | 1.2 | 30.2 | 2.0 | 34.2 | 2.0 | 1.40 | 37.8 | 3220 | 167 |

Others numbers up to a maximum of 37 cores are available upon request.
Control (Auxiliary) cable with 2-5 cores will be made in accordance with power cable dimensions.

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-07C00150-W0BK8-01 | 7C | 1.5 | 7 | 0.6 | 0.8 | 10.6 | 0.9 | 12.4 | 1.4 | 0.92 | 15.2 | 453 | 42 |
| 2 | 7614-12C00150-W0BK8-01 | 12C | 1.5 | 7 | 0.6 | 0.8 | 13.9 | 1.25 | 16.4 | 1.5 | 1.00 | 19.5 | 760 | 59 |
| 3 | 7614-19C00150-W0BK8-01 | 19C | 1.5 | 7 | 0.6 | 0.8 | 16.3 | 1.25 | 18.8 | 1.6 | 1.08 | 22.1 | 982 | 72 |
| 4 | 7614-27C00150-W0BK8-01 | 27C | 1.5 | 7 | 0.6 | 1.0 | 20.1 | 1.6 | 23.3 | 1.7 | 1.16 | 26.7 | 1429 | 94 |
| 5 | 7614-37C00150-W0BK8-01 | 37C | 1.5 | 7 | 0.6 | 1.0 | 22.5 | 1.6 | 25.7 | 1.7 | 1.16 | 29.2 | 1736 | 103 |
| 6 | 7614-07C00250-W0BK8-01 | 7C | 2.5 | 7 | 0.7 | 0.8 | 12.5 | 0.9 | 14.3 | 1.4 | 0.92 | 17.7 | 621 | 50 |
| 7 | 7614-12C00250-W0BK8-01 | 12C | 2.5 | 7 | 0.7 | 0.8 | 16.6 | 1.25 | 19.1 | 1.6 | 1.08 | 22.9 | 1041 | 75 |
| 8 | 7614-19C00250-W0BK8-01 | 19C | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 1.6 | 22.6 | 1.7 | 1.16 | 25.6 | 1430 | 95 |
| 9 | 7614-27C00250-W0BK8-01 | 27C | 2.5 | 7 | 0.7 | 1.0 | 23.3 | 1.6 | 26.5 | 1.8 | 1.24 | 29.7 | 1825 | 118 |
| 10 | 7614-37C00250-W0BK8-01 | 37C | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 1.6 | 29.4 | 1.8 | 1.24 | 32.6 | 2235 | 129 |
| 11 | 7614-07C00400-W0BK8-01 | 7C | 4 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 20.3 | 880 | 62 |
| 12 | 7614-12C00400-W0BK8-01 | 12C | 4 | 7 | 0.7 | 1.0 | 19.3 | 1.6 | 22.5 | 1.6 | 1.08 | 26.3 | 1465 | 87 |
| 13 | 7614-19C00400-W0BK8-01 | 19C | 4 | 7 | 0.7 | 1.0 | 22.0 | 1.6 | 25.2 | 1.7 | 1.16 | 28.1 | 1800 | 105 |
| 14 | 7614-27C00400-W0BK8-01 | 27C | 4 | 7 | 0.7 | 1.0 | 26.5 | 1.6 | 29.7 | 1.9 | 1.32 | 33.1 | 2375 | 139 |
| 15 | 7614-37C00400-W0BK8-01 | 37C | 4 | 7 | 0.7 | 1.2 | 30.2 | 2.0 | 34.2 | 2.0 | 1.40 | 37.8 | 3220 | 167 |

Others numbers up to a maximum of 37 cores are available upon request.
Control (Auxiliary) cable with 2-5 cores will be made in accordance with power cable dimensions.

# LV POWER, SINGLE CORE, ARMOURED CABLE

CU/XLPE/LSZH/AWA/LSZH

SPECIFICATION: BS 6724

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

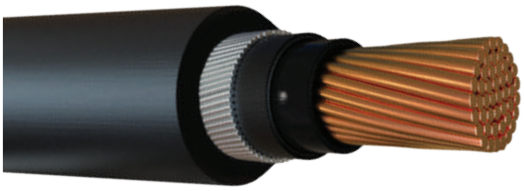
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to BS 7655-1.3. |
| Color Code* | 1C: Black |
| Bedding | Low Smoke Zero Halogen (LSZH) thermoplastic in Black color. |
| Armor | A single layer of Aluminium wire armor is applied over the inner sheath. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) thermoplastic Type LTS 1 to BS 7655-6.1. The color of the sheath shall be Black. |
| Marking on the sheath | Example – ELECTRIC CABLE CU/XLPE/AWA/LSZH 600/1000V BS 6724 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid | IEC 60754-1 (≤ 0.5%) |
| Smoke Emission | IEC 61034-2 (Light Transmittance ≥ 70%) |

*Other Insulation color available on request.
**Other sheath color available on request.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A), UV/Sunlight resistance,
Anti-Termite / Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE (IEC 60332-1 & IEC 60332-3-24):**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76D4-01C05000-A0BK8-BH | 1C | 50 | 19 | 1.0 | 0.8 | 12.1 | 1.6** | 15.1 | 1.5 | 1.00 | 18.1 | 736 | 54 |
| 2 | 76D4-01C07000-A0BK8-BH | 1C | 70 | 19 | 1.1 | 0.8 | 13.9 | 1.6** | 17.1 | 1.5 | 1.00 | 19.9 | 953 | 60 |
| 3 | 76D4-01C09500-A0BK8-BH | 1C | 95 | 19 | 1.1 | 0.8 | 15.5 | 1.6** | 18.7 | 1.6 | 1.08 | 21.7 | 1230 | 70 |
| 4 | 76D4-01C12000-A0BK8-BH | 1C | 120 | 19 | 1.2 | 0.8 | 17.1 | 1.6** | 20.3 | 1.6 | 1.08 | 23.3 | 1495 | 76 |
| 5 | 76D4-01C15000-A0BK8-BH | 1C | 150 | 19 | 1.4 | 1.0 | 19.5 | 1.6 | 22.7 | 1.7 | 1.16 | 25.7 | 1825 | 90 |
| 6 | 76D4-01C18500-A0BK8-BH | 1C | 185 | 37 | 1.6 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 2205 | 103 |
| 7 | 76D4-01C24000-A0BK8-BH | 1C | 240 | 37 | 1.7 | 1.0 | 23.9 | 1.6 | 27.1 | 1.8 | 1.24 | 30.3 | 2780 | 113 |
| 8 | 76D4-01C30000-A0BK8-BH | 1C | 300 | 37 | 1.8 | 1.0 | 26.2 | 1.6 | 29.4 | 1.9 | 1.32 | 32.8 | 3400 | 129 |
| 9 | 76D4-01C40000-A0BK8-BH | 1C | 400 | 61 | 2.0 | 1.2 | 30.2 | 2.0 | 34.2 | 2.0 | 1.40 | 37.8 | 4400 | 157 |
| 10 | 76D4-01C50000-A0BK8-BH | 1C | 500 | 61 | 2.2 | 1.2 | 33.4 | 2.0 | 37.4 | 2.1 | 1.48 | 41.2 | 5475 | 181 |
| 11 | 76D4-01C63000-A0BK8-BH | 1C | 630 | 61 | 2.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.2 | 1.56 | 45.3 | 6925 | 208 |
| 12 | 76D4-01C80000-A0BK8-BH | 1C | 800 | 61 | 2.6 | 1.4 | 41.9 | 2.5 | 46.9 | 2.4 | 1.72 | 51.3 | 9150 | 258 |
| 13 | 76D4-1C100000-A0BK8-BH | 1C | 1000 | 61 | 2.8 | 1.4 | 46.9 | 2.5 | 51.9 | 2.5 | 1.80 | 56.5 | 11325 | 297 |
| 14 | 7614-01C80000-A0BK8-BH* | 1C | 800 | 91 | 2.6 | 1.4 | 45.3 | 2.5 | 50.3 | 2.4 | 1.72 | 54.7 | 9300 | 276 |
| 15 | 7614-1C100000-A0BK8-BH* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.5 | 1.80 | 59.8 | 11450 | 315 |

*Non-Compacted circular conductor, all other compacted circular conductor
** Wire diameter larger from specified BS 6724

# LV POWER, MULTI CORE, ARMOURED CABLE

CU/XLPE/LSZH/SWA/LSZH

SPECIFICATION: BS 6724

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

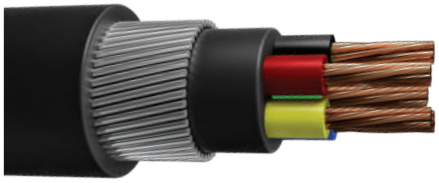
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to BS 7655-1.3. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Bedding | Low Smoke Zero Halogen (LSZH) thermoplastic in Black color. |
| Armor | A single layer of galvanized steel wire armor is applied over the inner sheath. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) thermoplastic Type LTS 1 to BS 7655-6.1. The color of the sheath shall be Black. |
| Marking on the sheath | Example – ELECTRIC CABLE CU/XLPE/SWA/LSZH 600/1000V BS 6724 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | 15°C to 90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |
| Halogen Acid | IEC 60754-1 (≤ 0.5%) |
| Smoke Emission | IEC 61034-2 (Light Transmittance ≥ 70%) |

*Other Insulation color available on request.
**Other sheath color available on request.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A), UV/Sunlight resistance,
Anti-Termite / Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

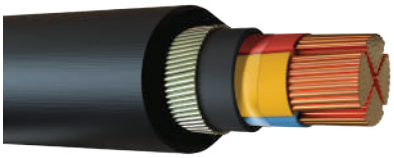
## TABLE: IEC 60332-1 & IEC 60332-3-24 (CAT C)
## CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-BH* | 2C | 1.5 | 7 | 0.6 | 0.8 | 7.6 | 0.9 | 9.4 | 1.3 | 0.84 | 11.6 | 260 | 29 |
| 2 | 7614-02C00250-W0BK8-BH* | 2C | 2.5 | 7 | 0.7 | 0.8 | 8.8 | 0.9 | 10.6 | 1.4 | 0.92 | 13.0 | 310 | 36 |
| 3 | 7614-02C00400-W0BK8-BH* | 2C | 4 | 7 | 0.7 | 0.8 | 9.8 | 0.9 | 11.6 | 1.4 | 0.92 | 14.0 | 370 | 39 |
| 4 | 7614-02C00600-W0BK8-BH* | 2C | 6 | 7 | 0.7 | 0.8 | 11.0 | 0.9 | 12.8 | 1.4 | 0.92 | 15.2 | 445 | 42 |
| 5 | 7614-02C01000-W0BK8-BH* | 2C | 10 | 7 | 0.7 | 0.8 | 12.9 | 0.9 | 14.7 | 1.5 | 1.00 | 17.3 | 585 | 52 |
| 6 | 76D4-02C01600-W0BK8-BH | 2C | 16 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 19.3 | 820 | 59 |
| 7 | 76D4-02C02500-W0BK8-BH | 2C | 25 | 7 | 0.9 | 0.8 | 17.4 | 1.25 | 19.9 | 1.6 | 1.08 | 22.7 | 1100 | 74 |
| 8 | 76D4-02C03500-W0BK8-BH | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.6 | 23.2 | 1.7 | 1.16 | 26.2 | 1540 | 92 |
| 9 | 76D4-02C05000-W0BK8-BH | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.6 | 26.3 | 1.9 | 1.32 | 29.7 | 1950 | 116 |
| 10 | 76D4-02C07000-W0BK8-BH | 2C | 70 | 19 | 1.1 | 1.2 | 26.9 | 2.0 | 30.9 | 2.0 | 1.40 | 34.5 | 2730 | 143 |
| 11 | 76D4-02C09500-W0BK8-BH | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3370 | 166 |
| 12 | 76D4-02C12000-W0BK8-BH | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.0 | 37.5 | 2.1 | 1.48 | 41.3 | 3995 | 181 |
| 13 | 7614-03C00150-W0BK8-BH* | 3C | 1.5 | 7 | 0.6 | 0.8 | 8.0 | 0.9 | 9.8 | 1.3 | 0.84 | 12.0 | 290 | 31 |
| 14 | 7614-03C00250-W0BK8-BH* | 3C | 2.5 | 7 | 0.7 | 0.8 | 9.4 | 0.9 | 11.2 | 1.4 | 0.92 | 13.6 | 360 | 38 |
| 15 | 7614-03C00400-W0BK8-BH* | 3C | 4 | 7 | 0.7 | 0.8 | 10.5 | 0.9 | 12.3 | 1.4 | 0.92 | 14.7 | 425 | 41 |
| 16 | 7614-03C00600-W0BK8-BH* | 3C | 6 | 7 | 0.7 | 0.8 | 11.8 | 0.9 | 13.6 | 1.4 | 0.92 | 16.0 | 525 | 45 |
| 17 | 7614-03C01000-W0BK8-BH* | 3C | 10 | 7 | 0.7 | 0.8 | 13.8 | 1.25 | 16.3 | 1.5 | 1.00 | 18.9 | 805 | 57 |
| 18 | 76D4-03C01600-W0BK8-BH | 3C | 16 | 7 | 0.7 | 0.8 | 15.2 | 1.25 | 17.7 | 1.6 | 1.08 | 20.5 | 1000 | 66 |
| 19 | 76D4-03C02500-W0BK8-BH | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.6 | 22.2 | 1.7 | 1.16 | 25.2 | 1540 | 88 |
| 20 | 76D4-03C03500-W0BK8-BH | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.6 | 24.6 | 1.8 | 1.24 | 27.8 | 1945 | 103 |
| 21 | 7614-04C00150-W0BK8-BH* | 4C | 1.5 | 7 | 0.6 | 0.8 | 8.8 | 0.9 | 10.6 | 1.3 | 0.84 | 12.8 | 330 | 33 |
| 22 | 7614-04C00250-W0BK8-BH* | 4C | 2.5 | 7 | 0.7 | 0.8 | 10.3 | 0.9 | 12.1 | 1.4 | 0.92 | 14.5 | 410 | 40 |
| 23 | 7614-04C00400-W0BK8-BH* | 4C | 4 | 7 | 0.7 | 0.8 | 11.5 | 0.9 | 13.3 | 1.4 | 0.92 | 15.7 | 500 | 44 |
| 24 | 7614-04C00600-W0BK8-BH* | 4C | 6 | 7 | 0.7 | 0.8 | 13.0 | 1.25 | 15.4 | 1.5 | 1.00 | 18.0 | 720 | 54 |
| 25 | 7614-04C01000-W0BK8-BH* | 4C | 10 | 7 | 0.7 | 0.8 | 15.2 | 1.25 | 17.7 | 1.5 | 1.00 | 20.3 | 950 | 62 |
| 26 | 76D4-04C01600-W0BK8-BH | 4C | 16 | 7 | 0.7 | 0.8 | 16.8 | 1.25 | 19.3 | 1.6 | 1.08 | 22.1 | 1215 | 72 |
| 27 | 7614-05C00150-W0BK8-BH-02* | 5C | 1.5 | 7 | 0.6 | 0.8 | 9.5 | 0.9 | 11.3 | 1.4 | 0.92 | 13.7 | 355 | 38 |
| 28 | 7614-05C00250-W0BK8-BH-02* | 5C | 2.5 | 7 | 0.7 | 0.8 | 11.2 | 0.9 | 13.0 | 1.4 | 0.92 | 15.4 | 455 | 43 |
| 29 | 7614-05C00400-W0BK8-BH-02* | 5C | 4 | 7 | 0.7 | 0.8 | 12.6 | 0.9 | 14.4 | 1.5 | 1.00 | 17.0 | 575 | 51 |
| 30 | 7614-05C00600-W0BK8-BH-02* | 5C | 6 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 19.3 | 825 | 59 |
| 31 | 7614-05C01000-W0BK8-BH-02* | 5C | 10 | 7 | 0.7 | 0.8 | 16.7 | 1.25 | 19.2 | 1.6 | 1.08 | 22.0 | 1125 | 72 |
| 32 | 76D4-05C01600-W0BK8-BH-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.6 | 22.1 | 1.7 | 1.16 | 25.1 | 1590 | 87 |
| 33 | 76D4-05C02500-W0BK8-BH-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.6 | 26.4 | 1.8 | 1.24 | 29.6 | 2215 | 110 |
| 34 | 76D4-05C03500-W0BK8-BH-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2810 | 129 |
| 35 | 76D4-05C05000-W0BK8-BH-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 34.7 | 2.0 | 1.40 | 38.3 | 3870 | 160 |
| 36 | 76D4-05C07000-W0BK8-BH-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.0 | 39.4 | 2.2 | 1.56 | 43.4 | 5125 | 199 |

*Non-Compacted conductor, all other compacted conductor

## TABLE: IEC 60332-1 & IEC 60332-3-24 (CAT C)
## SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-02C15000-W0BK8-BH | 2C | 150 | 19 | 1.4 | 1.2 | 27.9 | 2.0 | 31.9 | 2.2 | 1.56 | 35.9 | 4200 | 163 |
| 2 | 76F4-02C18500-W0BK8-BH | 2C | 185 | 37 | 1.6 | 1.4 | 31.3 | 2.5 | 36.3 | 2.4 | 1.72 | 40.7 | 5380 | 202 |
| 3 | 76F4-02C24000-W0BK8-BH | 2C | 240 | 37 | 1.7 | 1.4 | 34.7 | 2.5 | 39.7 | 2.5 | 1.80 | 44.3 | 6685 | 230 |
| 4 | 76F4-02C30000-W0BK8-BH | 2C | 300 | 37 | 1.8 | 1.6 | 38.4 | 2.5 | 43.4 | 2.6 | 1.88 | 48.2 | 8150 | 261 |
| 5 | 76F4-02C40000-W0BK8-BH | 2C | 400 | 61 | 2.0 | 1.6 | 43.5 | 2.5 | 48.5 | 2.8 | 2.04 | 53.7 | 9995 | 313 |
| 6 | 76F4-03C02500-W0BK8-BH | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.6 | 19.7 | 1.7 | 1.16 | 22.7 | 1440 | 78 |
| 7 | 76F4-03C03500-W0BK8-BH | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1800 | 91 |
| 8 | 76F4-03C05000-W0BK8-BH | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.6 | 24.4 | 1.8 | 1.24 | 27.6 | 2280 | 102 |
| 9 | 76F4-03C07000-W0BK8-BH | 3C | 70 | 19 | 1.1 | 1.0 | 24.3 | 1.6 | 27.5 | 1.9 | 1.32 | 30.9 | 3010 | 121 |
| 10 | 76F4-03C09500-W0BK8-BH | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.0 | 31.6 | 2.1 | 1.48 | 35.4 | 4080 | 154 |
| 11 | 76F4-03C12000-W0BK8-BH | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.0 | 34.5 | 2.2 | 1.56 | 38.5 | 4945 | 176 |
| 12 | 76F4-03C15000-W0BK8-BH | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 2.5 | 39.4 | 2.3 | 1.64 | 43.6 | 6345 | 209 |
| 13 | 76F4-03C18500-W0BK8-BH | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.5 | 43.0 | 2.4 | 1.72 | 47.4 | 7525 | 237 |
| 14 | 76F4-03C24000-W0BK8-BH | 3C | 240 | 37 | 1.7 | 1.4 | 42.3 | 2.5 | 47.3 | 2.6 | 1.88 | 52.1 | 9440 | 283 |
| 15 | 76F4-03C30000-W0BK8-BH | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 2.5 | 51.9 | 2.7 | 1.96 | 56.9 | 11575 | 322 |
| 16 | 76F4-03C40000-W0BK8-BH | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 2.5 | 58.3 | 2.9 | 2.12 | 63.7 | 14250 | 388 |
| 17 | 76F4-04C02500-W0BK8-BH | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.6 | 22.6 | 1.7 | 1.16 | 25.6 | 1800 | 89 |
| 18 | 76F4-04C03500-W0BK8-BH | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.6 | 25.0 | 1.8 | 1.24 | 28.2 | 2270 | 104 |
| 19 | 76F4-04C05000-W0BK8-BH | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 1.6 | 28.5 | 1.9 | 1.32 | 31.9 | 2930 | 125 |
| 20 | 76F4-04C07000-W0BK8-BH | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.0 | 33.5 | 2.1 | 1.48 | 37.3 | 4160 | 163 |
| 21 | 76F4-04C09500-W0BK8-BH | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.0 | 37.0 | 2.2 | 1.56 | 41.0 | 5260 | 188 |
| 22 | 76F4-04C12000-W0BK8-BH | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.5 | 42.0 | 2.3 | 1.64 | 46.2 | 6825 | 222 |
| 23 | 76F4-04C15000-W0BK8-BH | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.5 | 46.3 | 2.4 | 1.72 | 50.7 | 8150 | 255 |
| 24 | 76F4-04C18500-W0BK8-BH | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.5 | 50.7 | 2.6 | 1.88 | 55.5 | 9725 | 302 |
| 25 | 76F4-04C24000-W0BK8-BH | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 2.5 | 56.4 | 2.7 | 1.96 | 61.4 | 12330 | 348 |
| 26 | 76F4-04C30000-W0BK8-BH | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 2.5 | 61.6 | 2.9 | 2.12 | 67.0 | 15110 | 409 |
| 27 | 76F4-04C40000-W0BK8-BH | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 3.15 | 71.2 | 3.2 | 2.36 | 77.2 | 19580 | 521 |

# CONTROL, MULTI CORE, ARMOURED CABLE

CU/XLPE/LSZH/SWA/LSZH

SPECIFICATION: BS 6724


| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.t |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to BS 7655-1.3. |
| Color Code* | Black cores with number printing on each core |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Bedding | Low Smoke Zero Halogen (LSZH) thermoplastic in Black color. |
| Armor | A single layer of galvanized steel wire armor is applied over the inner sheath. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) thermoplastic Type LTS 1 to BS 7655-6.1. The color of the sheath shall be Black. |
| Marking on the sheath | Example – ELECTRIC CABLE CU/XLPE/SWA/LSZH 600/1000V AUX BS 6724 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |
| Halogen Acid | IEC 60754-1 (≤ 0.5%) |
| Smoke Emission | IEC 61034-2 (Light Transmittance ≥ 70%) |

*Other Insulation color available on request.
**Other sheath color available on request.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A), UV/Sunlight resistance,
Anti-Termite / Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1 & IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:

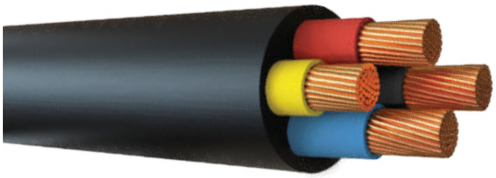

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-07C00150-W0BK8-BH | 7C | 1.5 | 7 | 0.6 | 0.8 | 10.6 | 0.9 | 12.4 | 1.4 | 0.92 | 15.2 | 445 | 42 |
| 2 | 7614-12C00150-W0BK8-BH | 12C | 1.5 | 7 | 0.6 | 0.8 | 13.9 | 1.25 | 16.4 | 1.5 | 1.00 | 19.5 | 745 | 59 |
| 3 | 7614-19C00150-W0BK8-BH | 19C | 1.5 | 7 | 0.6 | 0.8 | 16.3 | 1.25 | 18.8 | 1.6 | 1.08 | 22.1 | 962 | 72 |
| 4 | 7614-27C00150-W0BK8-BH | 27C | 1.5 | 7 | 0.6 | 1.0 | 20.1 | 1.6 | 23.3 | 1.7 | 1.16 | 26.7 | 1400 | 94 |
| 5 | 7614-37C00150-W0BK8-BH | 37C | 1.5 | 7 | 0.6 | 1.0 | 22.5 | 1.6 | 25.7 | 1.7 | 1.16 | 29.2 | 1700 | 103 |
| 6 | 7614-07C00250-W0BK8-BH | 7C | 2.5 | 7 | 0.7 | 0.8 | 12.5 | 0.9 | 14.3 | 1.4 | 0.92 | 17.7 | 610 | 50 |
| 7 | 7614-12C00250-W0BK8-BH | 12C | 2.5 | 7 | 0.7 | 0.8 | 16.6 | 1.25 | 19.1 | 1.6 | 1.08 | 22.9 | 1020 | 75 |
| 8 | 7614-19C00250-W0BK8-BH | 19C | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 1.6 | 22.6 | 1.7 | 1.16 | 25.6 | 1430 | 95 |
| 9 | 7614-27C00250-W0BK8-BH | 27C | 2.5 | 7 | 0.7 | 1.0 | 23.3 | 1.6 | 26.5 | 1.8 | 1.24 | 29.7 | 1825 | 118 |
| 10 | 7614-37C00250-W0BK8-BH | 37C | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 1.6 | 29.4 | 1.8 | 1.24 | 32.6 | 2235 | 129 |
| 11 | 7614-07C00400-W0BK8-BH | 7C | 4 | 7 | 0.7 | 0.8 | 14.2 | 1.25 | 16.7 | 1.5 | 1.00 | 20.3 | 860 | 62 |
| 12 | 7614-12C00400-W0BK8-BH | 12C | 4 | 7 | 0.7 | 1.0 | 19.3 | 1.6 | 22.5 | 1.6 | 1.08 | 26.3 | 1445 | 87 |
| 13 | 7614-19C00400-W0BK8-BH | 19C | 4 | 7 | 0.7 | 1.0 | 22.0 | 1.6 | 25.2 | 1.7 | 1.16 | 28.1 | 1800 | 105 |
| 14 | 7614-27C00400-W0BK8-BH | 27C | 4 | 7 | 0.7 | 1.0 | 26.5 | 1.6 | 29.7 | 1.9 | 1.32 | 33.1 | 2375 | 139 |
| 15 | 7614-37C00400-W0BK8-BH | 37C | 4 | 7 | 0.7 | 1.2 | 30.2 | 2.0 | 34.2 | 2.0 | 1.40 | 37.8 | 3220 | 167 |

Others numbers, more than 37 cores are available upon request.
Control (Auxiliary) cable with 2-5 cores will be made in accordance with power cable dimensions.

# LV POWER, SINGLE/MULTI CORE, UNARMOURED CABLE

CU/PVC/PVC

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

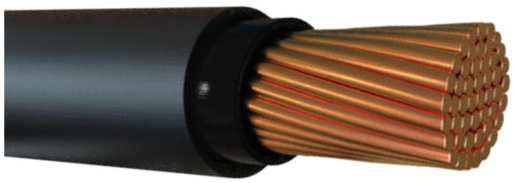
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | PVC TI-3 |
| Color Code* | 1C: Black<br>2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling** | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/PVC/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 V DC / 5 |

*Other Insulation color available on request.
**Applicable only for Multi-Core cables.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm

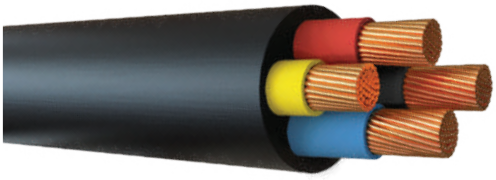
**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7311-01C00150-U0BK8-NI* | 1C | 1.5 | 7 | 0.8 | 1.4 | 0.92 | 6.0 | 55 | 14 |
| 2 | 7311-01C00250-U0BK8-NI* | 1C | 2.5 | 7 | 0.8 | 1.4 | 0.92 | 6.4 | 65 | 15 |
| 3 | 7311-01C00400-U0BK8-NI* | 1C | 4 | 7 | 1.0 | 1.4 | 0.92 | 7.3 | 95 | 18 |
| 4 | 7311-01C00600-U0BK8-NI* | 1C | 6 | 7 | 1.0 | 1.4 | 0.92 | 7.9 | 120 | 20 |
| 5 | 7311-01C01000-U0BK8-NI* | 1C | 10 | 7 | 1.0 | 1.4 | 0.92 | 8.9 | 170 | 23 |
| 6 | 73D1-01C01600-U0BK8-NI | 1C | 16 | 7 | 1.0 | 1.4 | 0.92 | 9.5 | 225 | 25 |
| 7 | 73D1-01C02500-U0BK8-NI | 1C | 25 | 7 | 1.2 | 1.4 | 0.92 | 11.1 | 330 | 30 |
| 8 | 73D1-01C03500-U0BK8-NI | 1C | 35 | 7 | 1.2 | 1.4 | 0.92 | 12.2 | 435 | 33 |
| 9 | 73D1-01C05000-U0BK8-NI | 1C | 50 | 19 | 1.4 | 1.4 | 0.92 | 13.9 | 570 | 38 |
| 10 | 73D1-01C07000-U0BK8-NI | 1C | 70 | 19 | 1.4 | 1.4 | 0.92 | 15.5 | 780 | 43 |
| 11 | 73D1-01C09500-U0BK8-NI | 1C | 95 | 19 | 1.6 | 1.5 | 1.00 | 17.7 | 1040 | 53 |
| 12 | 73D1-01C12000-U0BK8-NI | 1C | 120 | 19 | 1.6 | 1.5 | 1.00 | 19.1 | 1285 | 58 |
| 13 | 73D1-01C15000-U0BK8-NI | 1C | 150 | 19 | 1.8 | 1.6 | 1.08 | 21.3 | 1590 | 69 |
| 14 | 73D1-01C18500-U0BK8-NI | 1C | 185 | 37 | 2.0 | 1.7 | 1.16 | 23.5 | 1945 | 81 |
| 15 | 73D1-01C24000-U0BK8-NI | 1C | 240 | 37 | 2.2 | 1.8 | 1.24 | 26.3 | 2530 | 97 |
| 16 | 73D1-01C30000-U0BK8-NI | 1C | 300 | 37 | 2.4 | 1.9 | 1.32 | 29.0 | 3145 | 113 |
| 17 | 73D1-01C40000-U0BK8-NI | 1C | 400 | 61 | 2.6 | 2.0 | 1.40 | 32.8 | 3990 | 135 |
| 18 | 73D1-01C50000-U0BK8-NI | 1C | 500 | 61 | 2.8 | 2.1 | 1.48 | 36.2 | 5040 | 157 |
| 19 | 73D1-01C63000-U0BK8-NI | 1C | 630 | 61 | 2.8 | 2.2 | 1.56 | 39.9 | 6420 | 182 |
| 20 | 73D1-01C80000-U0BK8-NI | 1C | 800 | 61 | 2.8 | 2.3 | 1.64 | 43.9 | 8315 | 210 |
| 21 | 73D1-1C100000-U0BK8-NI | 1C | 1000 | 61 | 3.0 | 2.5 | 1.80 | 49.3 | 10420 | 257 |
| 22 | 7311-01C80000-U0BK8-NI* | 1C | 800 | 91 | 2.8 | 2.3 | 1.64 | 47.3 | 8400 | 228 |
| 23 | 7311-1C100000-U0BK8-NI* | 1C | 1000 | 91 | 3.0 | 2.5 | 1.80 | 52.6 | 10505 | 275 |

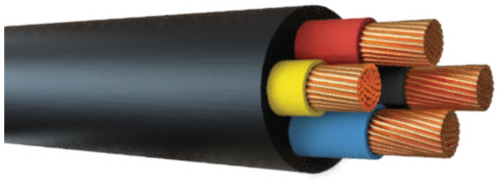
*Non-Compacted circular conductor, other compacted circular conductor

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:



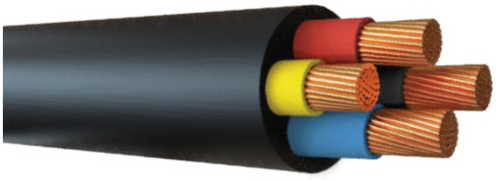
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-U0BK8-00 | 2C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.2 | 130 | 33 |
| 2 | 7311-02C00250-U0BK8-00 | 2C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.0 | 155 | 36 |
| 3 | 7311-02C00400-U0BK8-00 | 2C | 4 | 7 | 1.0 | 1.8 | 1.24 | 12.8 | 210 | 43 |
| 4 | 7311-02C00600-U0BK8-00 | 2C | 6 | 7 | 1.0 | 1.8 | 1.24 | 14.0 | 265 | 48 |
| 5 | 7311-02C01000-U0BK8-00 | 2C | 10 | 7 | 1.0 | 1.8 | 1.24 | 15.9 | 370 | 56 |
| 6 | 7311-03C00150-U0BK8-00 | 3C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.7 | 155 | 35 |
| 7 | 7311-03C00250-U0BK8-00 | 3C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.6 | 195 | 39 |
| 8 | 7311-03C00400-U0BK8-00 | 3C | 4 | 7 | 1.0 | 1.8 | 1.24 | 13.6 | 275 | 47 |
| 9 | 7311-03C00600-U0BK8-00 | 3C | 6 | 7 | 1.0 | 1.8 | 1.24 | 14.9 | 355 | 52 |
| 10 | 7311-03C01000-U0BK8-00 | 3C | 10 | 7 | 1.0 | 1.8 | 1.24 | 16.9 | 500 | 60 |
| 11 | 7311-04C00150-U0BK8-00 | 4C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 11.5 | 190 | 38 |
| 12 | 7311-04C00250-U0BK8-00 | 4C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 12.5 | 240 | 42 |
| 13 | 7311-04C00400-U0BK8-00 | 4C | 4 | 7 | 1.0 | 1.8 | 1.24 | 14.7 | 335 | 51 |
| 14 | 7311-04C00600-U0BK8-00 | 4C | 6 | 7 | 1.0 | 1.8 | 1.24 | 16.2 | 440 | 57 |
| 15 | 7311-04C01000-U0BK8-00 | 4C | 10 | 7 | 1.0 | 1.8 | 1.24 | 18.4 | 630 | 66 |
| 16 | 7311-05C00150-U0BK8-00-02 | 5C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 12.4 | 220 | 42 |
| 17 | 7311-05C00250-U0BK8-00-02 | 5C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 13.6 | 285 | 47 |
| 18 | 7311-05C00400-U0BK8-00-02 | 5C | 4 | 7 | 1.0 | 1.8 | 1.24 | 16.0 | 405 | 56 |
| 19 | 7311-05C00600-U0BK8-00-02 | 5C | 6 | 7 | 1.0 | 1.8 | 1.24 | 17.6 | 530 | 62 |
| 20 | 7311-05C01000-U0BK8-00-02 | 5C | 10 | 7 | 1.0 | 1.8 | 1.24 | 20.1 | 765 | 72 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
NON-COMPACTED CIRCULAR CONDUCTOR:



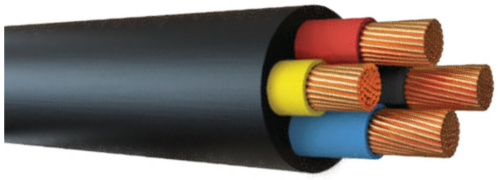
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-U0BK8-0A | 2C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.2 | 130 | 33 |
| 2 | 7311-02C00250-U0BK8-0A | 2C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.0 | 155 | 36 |
| 3 | 7311-02C00400-U0BK8-0A | 2C | 4 | 7 | 1.0 | 1.8 | 1.24 | 12.8 | 210 | 43 |
| 4 | 7311-02C00600-U0BK8-0A | 2C | 6 | 7 | 1.0 | 1.8 | 1.24 | 14.0 | 265 | 48 |
| 5 | 7311-02C01000-U0BK8-0A | 2C | 10 | 7 | 1.0 | 1.8 | 1.24 | 15.9 | 370 | 56 |
| 6 | 7311-03C00150-U0BK8-0A | 3C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.7 | 155 | 35 |
| 7 | 7311-03C00250-U0BK8-0A | 3C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.6 | 195 | 39 |
| 8 | 7311-03C00400-U0BK8-0A | 3C | 4 | 7 | 1.0 | 1.8 | 1.24 | 13.6 | 275 | 47 |
| 9 | 7311-03C00600-U0BK8-0A | 3C | 6 | 7 | 1.0 | 1.8 | 1.24 | 14.9 | 355 | 52 |
| 10 | 7311-03C01000-U0BK8-0A | 3C | 10 | 7 | 1.0 | 1.8 | 1.24 | 16.9 | 500 | 60 |
| 11 | 7311-04C00150-U0BK8-0A | 4C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 11.5 | 190 | 38 |
| 12 | 7311-04C00250-U0BK8-0A | 4C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 12.5 | 240 | 42 |
| 13 | 7311-04C00400-U0BK8-0A | 4C | 4 | 7 | 1.0 | 1.8 | 1.24 | 14.7 | 335 | 51 |
| 14 | 7311-04C00600-U0BK8-0A | 4C | 6 | 7 | 1.0 | 1.8 | 1.24 | 16.2 | 440 | 57 |
| 15 | 7311-04C01000-U0BK8-0A | 4C | 10 | 7 | 1.0 | 1.8 | 1.24 | 18.4 | 630 | 66 |
| 16 | 7311-05C00150-U0BK8-0A-02 | 5C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 12.4 | 220 | 42 |
| 17 | 7311-05C00250-U0BK8-0A-02 | 5C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 13.6 | 285 | 47 |
| 18 | 7311-05C00400-U0BK8-0A-02 | 5C | 4 | 7 | 1.0 | 1.8 | 1.24 | 16.0 | 405 | 56 |
| 19 | 7311-05C00600-U0BK8-0A-02 | 5C | 6 | 7 | 1.0 | 1.8 | 1.24 | 17.6 | 530 | 62 |
| 20 | 7311-05C01000-U0BK8-0A-02 | 5C | 10 | 7 | 1.0 | 1.8 | 1.24 | 20.1 | 765 | 72 |

**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:



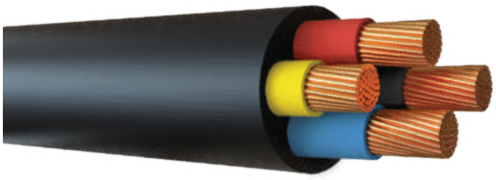
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-U0BK8-NI | 2C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.2 | 130 | 33 |
| 2 | 7311-02C00250-U0BK8-NI | 2C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.0 | 155 | 36 |
| 3 | 7311-02C00400-U0BK8-NI | 2C | 4 | 7 | 1.0 | 1.8 | 1.24 | 12.8 | 210 | 43 |
| 4 | 7311-02C00600-U0BK8-NI | 2C | 6 | 7 | 1.0 | 1.8 | 1.24 | 14.0 | 265 | 48 |
| 5 | 7311-02C01000-U0BK8-NI | 2C | 10 | 7 | 1.0 | 1.8 | 1.24 | 15.9 | 370 | 56 |
| 6 | 7311-03C00150-U0BK8-NI | 3C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.7 | 155 | 35 |
| 7 | 7311-03C00250-U0BK8-NI | 3C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.6 | 195 | 39 |
| 8 | 7311-03C00400-U0BK8-NI | 3C | 4 | 7 | 1.0 | 1.8 | 1.24 | 13.6 | 275 | 47 |
| 9 | 7311-03C00600-U0BK8-NI | 3C | 6 | 7 | 1.0 | 1.8 | 1.24 | 14.9 | 355 | 52 |
| 10 | 7311-03C01000-U0BK8-NI | 3C | 10 | 7 | 1.0 | 1.8 | 1.24 | 16.9 | 500 | 60 |
| 11 | 7311-04C00150-U0BK8-NI | 4C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 11.5 | 190 | 38 |
| 12 | 7311-04C00250-U0BK8-NI | 4C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 12.5 | 240 | 42 |
| 13 | 7311-04C00400-U0BK8-NI | 4C | 4 | 7 | 1.0 | 1.8 | 1.24 | 14.7 | 335 | 51 |
| 14 | 7311-04C00600-U0BK8-NI | 4C | 6 | 7 | 1.0 | 1.8 | 1.24 | 16.2 | 440 | 57 |
| 15 | 7311-04C01000-U0BK8-NI | 4C | 10 | 7 | 1.0 | 1.8 | 1.24 | 18.4 | 630 | 66 |
| 16 | 7311-05C00150-U0BK8-NI-02 | 5C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 12.4 | 220 | 42 |
| 17 | 7311-05C00250-U0BK8-NI-02 | 5C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 13.6 | 285 | 47 |
| 18 | 7311-05C00400-U0BK8-NI-02 | 5C | 4 | 7 | 1.0 | 1.8 | 1.24 | 16.0 | 405 | 56 |
| 19 | 7311-05C00600-U0BK8-NI-02 | 5C | 6 | 7 | 1.0 | 1.8 | 1.24 | 17.6 | 530 | 62 |
| 20 | 7311-05C01000-U0BK8-NI-02 | 5C | 10 | 7 | 1.0 | 1.8 | 1.24 | 20.1 | 765 | 72 |

**TABLE: IEC 60332-3-24 (CAT C)**
COMPACTED CIRCULAR CONDUCTOR:



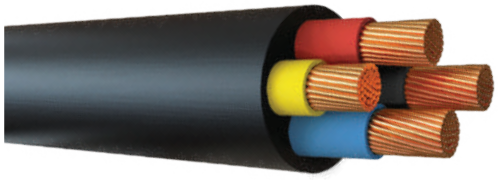
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 73D1-02C01600-U0BK8-00 | 2C | 16 | 7 | 1.0 | 1.8 | 1.24 | 17.0 | 485 | 60 |
| 2 | 73D1-02C02500-U0BK8-00 | 2C | 25 | 7 | 1.2 | 1.8 | 1.24 | 20.4 | 700 | 74 |
| 3 | 73D1-02C03500-U0BK8-00 | 2C | 35 | 7 | 1.2 | 1.8 | 1.24 | 22.6 | 915 | 82 |
| 4 | 73D1-02C05000-U0BK8-00 | 2C | 50 | 19 | 1.4 | 1.8 | 1.24 | 26.1 | 1205 | 96 |
| 5 | 73D1-02C07000-U0BK8-00 | 2C | 70 | 19 | 1.4 | 1.9 | 1.32 | 29.3 | 1630 | 114 |
| 6 | 73D1-02C09500-U0BK8-00 | 2C | 95 | 19 | 1.6 | 2.0 | 1.40 | 33.6 | 2170 | 139 |
| 7 | 73D1-02C12000-U0BK8-00 | 2C | 120 | 19 | 1.6 | 2.1 | 1.48 | 36.7 | 2695 | 160 |
| 8 | 73D1-02C15000-U0BK8-00 | 2C | 150 | 19 | 1.8 | 2.2 | 1.56 | 40.7 | 3305 | 186 |
| 9 | 73D1-02C18500-U0BK8-00 | 2C | 185 | 37 | 2.0 | 2.4 | 1.72 | 45.1 | 4050 | 225 |
| 10 | 73D1-02C24000-U0BK8-00 | 2C | 240 | 37 | 2.2 | 2.5 | 1.80 | 50.6 | 5240 | 264 |
| 11 | 73D1-02C30000-U0BK8-00 | 2C | 300 | 37 | 2.4 | 2.7 | 1.96 | 56.1 | 6585 | 317 |
| 12 | 73D1-02C40000-U0BK8-00 | 2C | 400 | 61 | 2.6 | 2.9 | 2.12 | 63.6 | 8275 | 387 |
| 13 | 73D1-03C01600-U0BK8-00 | 3C | 16 | 7 | 1.0 | 1.8 | 1.24 | 18.3 | 665 | 65 |
| 14 | 73D1-03C02500-U0BK8-00 | 3C | 25 | 7 | 1.2 | 1.8 | 1.24 | 21.7 | 975 | 79 |
| 15 | 73D1-03C03500-U0BK8-00 | 3C | 35 | 7 | 1.2 | 1.8 | 1.24 | 24.1 | 1290 | 88 |
| 16 | 73D1-04C01600-U0BK8-00 | 4C | 16 | 7 | 1.0 | 1.8 | 1.24 | 20.1 | 855 | 72 |
| 17 | 73D1-05C01600-U0BK8-00-02 | 5C | 16 | 7 | 1.0 | 1.8 | 1.24 | 21.7 | 1040 | 79 |
| 18 | 73D1-05C02500-U0BK8-00-02 | 5C | 25 | 7 | 1.2 | 1.8 | 1.24 | 26.2 | 1540 | 97 |
| 19 | 73D1-05C03500-U0BK8-00-02 | 5C | 35 | 7 | 1.2 | 1.9 | 1.32 | 29.3 | 2065 | 114 |
| 20 | 73D1-05C05000-U0BK8-00-02 | 5C | 50 | 19 | 1.4 | 2.0 | 1.40 | 34.3 | 2790 | 142 |
| 21 | 73D1-05C07000-U0BK8-00-02 | 5C | 70 | 19 | 1.4 | 2.2 | 1.56 | 38.8 | 3820 | 177 |
| 22 | 73D1-05C09500-U0BK8-00-02 | 5C | 95 | 19 | 1.6 | 2.3 | 1.64 | 44.5 | 5110 | 213 |
| 23 | 73D1-05C12000-U0BK8-00-02 | 5C | 120 | 19 | 1.6 | 2.5 | 1.80 | 48.8 | 6390 | 254 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
COMPACTED CIRCULAR CONDUCTOR:



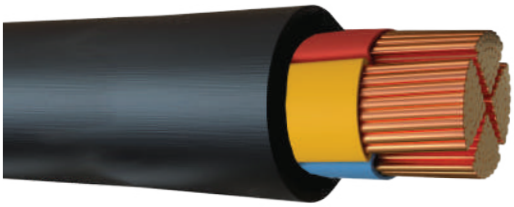
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 73D1-02C01600-U0BK8-0A | 2C | 16 | 7 | 1.0 | 1.8 | 1.24 | 17.0 | 485 | 60 |
| 2 | 73D1-02C02500-U0BK8-0A | 2C | 25 | 7 | 1.2 | 1.8 | 1.24 | 20.4 | 700 | 74 |
| 3 | 73D1-02C03500-U0BK8-0A | 2C | 35 | 7 | 1.2 | 1.8 | 1.24 | 22.6 | 915 | 82 |
| 4 | 73D1-02C05000-U0BK8-0A | 2C | 50 | 19 | 1.4 | 1.8 | 1.24 | 26.1 | 1205 | 96 |
| 5 | 73D1-02C07000-U0BK8-0A | 2C | 70 | 19 | 1.4 | 1.9 | 1.32 | 29.3 | 1630 | 114 |
| 6 | 73D1-02C09500-U0BK8-0A | 2C | 95 | 19 | 1.6 | 2.0 | 1.40 | 33.6 | 2170 | 139 |
| 7 | 73D1-02C12000-U0BK8-0A | 2C | 120 | 19 | 1.6 | 2.1 | 1.48 | 36.7 | 2695 | 160 |
| 8 | 73D1-02C15000-U0BK8-0A | 2C | 150 | 19 | 1.8 | 2.2 | 1.56 | 40.7 | 3305 | 186 |
| 9 | 73D1-02C18500-U0BK8-0A | 2C | 185 | 37 | 2.0 | 2.4 | 1.72 | 45.1 | 4050 | 225 |
| 10 | 73D1-02C24000-U0BK8-0A | 2C | 240 | 37 | 2.2 | 2.5 | 1.80 | 50.6 | 5240 | 264 |
| 11 | 73D1-02C30000-U0BK8-0A | 2C | 300 | 37 | 2.4 | 2.7 | 1.96 | 56.1 | 6585 | 317 |
| 12 | 73D1-02C40000-U0BK8-0A | 2C | 400 | 61 | 2.6 | 2.9 | 2.12 | 63.6 | 8275 | 387 |
| 13 | 73D1-03C01600-U0BK8-0A | 3C | 16 | 7 | 1.0 | 1.8 | 1.24 | 18.3 | 665 | 65 |
| 14 | 73D1-03C02500-U0BK8-0A | 3C | 25 | 7 | 1.2 | 1.8 | 1.24 | 21.7 | 975 | 79 |
| 15 | 73D1-03C03500-U0BK8-0A | 3C | 35 | 7 | 1.2 | 1.8 | 1.24 | 24.1 | 1290 | 88 |
| 16 | 73D1-04C01600-U0BK8-0A | 4C | 16 | 7 | 1.0 | 1.8 | 1.24 | 20.1 | 855 | 72 |
| 17 | 73D1-05C01600-U0BK8-0A-02 | 5C | 16 | 7 | 1.0 | 1.8 | 1.24 | 21.7 | 1040 | 79 |
| 18 | 73D1-05C02500-U0BK8-0A-02 | 5C | 25 | 7 | 1.2 | 1.8 | 1.24 | 26.2 | 1540 | 97 |
| 19 | 73D1-05C03500-U0BK8-0A-02 | 5C | 35 | 7 | 1.2 | 1.9 | 1.32 | 29.3 | 2065 | 114 |
| 20 | 73D1-05C05000-U0BK8-0A-02 | 5C | 50 | 19 | 1.4 | 2.0 | 1.40 | 34.3 | 2790 | 142 |
| 21 | 73D1-05C07000-U0BK8-0A-02 | 5C | 70 | 19 | 1.4 | 2.2 | 1.56 | 38.8 | 3820 | 177 |
| 22 | 73D1-05C09500-U0BK8-0A-02 | 5C | 95 | 19 | 1.6 | 2.3 | 1.64 | 44.5 | 5110 | 213 |
| 23 | 73D1-05C12000-U0BK8-0A-02 | 5C | 120 | 19 | 1.6 | 2.5 | 1.80 | 48.8 | 6390 | 254 |

**TABLE: IEC 60332-1-2**
COMPACTED CIRCULAR CONDUCTOR:



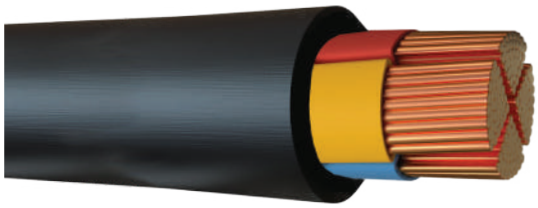
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 73D1-02C01600-U0BK8-NI | 2C | 16 | 7 | 1.0 | 1.8 | 1.24 | 17.0 | 485 | 60 |
| 2 | 73D1-02C02500-U0BK8-NI | 2C | 25 | 7 | 1.2 | 1.8 | 1.24 | 20.4 | 700 | 74 |
| 3 | 73D1-02C03500-U0BK8-NI | 2C | 35 | 7 | 1.2 | 1.8 | 1.24 | 22.6 | 915 | 82 |
| 4 | 73D1-02C05000-U0BK8-NI | 2C | 50 | 19 | 1.4 | 1.8 | 1.24 | 26.1 | 1205 | 96 |
| 5 | 73D1-02C07000-U0BK8-NI | 2C | 70 | 19 | 1.4 | 1.9 | 1.32 | 29.3 | 1630 | 114 |
| 6 | 73D1-02C09500-U0BK8-NI | 2C | 95 | 19 | 1.6 | 2.0 | 1.40 | 33.6 | 2170 | 139 |
| 7 | 73D1-02C12000-U0BK8-NI | 2C | 120 | 19 | 1.6 | 2.1 | 1.48 | 36.7 | 2695 | 160 |
| 8 | 73D1-02C15000-U0BK8-NI | 2C | 150 | 19 | 1.8 | 2.2 | 1.56 | 40.7 | 3305 | 186 |
| 9 | 73D1-02C18500-U0BK8-NI | 2C | 185 | 37 | 2.0 | 2.4 | 1.72 | 45.1 | 4050 | 225 |
| 10 | 73D1-02C24000-U0BK8-NI | 2C | 240 | 37 | 2.2 | 2.5 | 1.80 | 50.6 | 5240 | 264 |
| 11 | 73D1-02C30000-U0BK8-NI | 2C | 300 | 37 | 2.4 | 2.7 | 1.96 | 56.1 | 6585 | 317 |
| 12 | 73D1-02C40000-U0BK8-NI | 2C | 400 | 61 | 2.6 | 2.9 | 2.12 | 63.6 | 8275 | 387 |
| 13 | 73D1-03C01600-U0BK8-NI | 3C | 16 | 7 | 1.0 | 1.8 | 1.24 | 18.3 | 665 | 65 |
| 14 | 73D1-03C02500-U0BK8-NI | 3C | 25 | 7 | 1.2 | 1.8 | 1.24 | 21.7 | 975 | 79 |
| 15 | 73D1-03C03500-U0BK8-NI | 3C | 35 | 7 | 1.2 | 1.8 | 1.24 | 24.1 | 1290 | 88 |
| 16 | 73D1-04C01600-U0BK8-NI | 4C | 16 | 7 | 1.0 | 1.8 | 1.24 | 20.1 | 855 | 72 |
| 17 | 73D1-05C01600-U0BK8-NI-02 | 5C | 16 | 7 | 1.0 | 1.8 | 1.24 | 21.7 | 1040 | 79 |
| 18 | 73D1-05C02500-U0BK8-NI-02 | 5C | 25 | 7 | 1.2 | 1.8 | 1.24 | 26.2 | 1540 | 97 |
| 19 | 73D1-05C03500-U0BK8-NI-02 | 5C | 35 | 7 | 1.2 | 1.9 | 1.32 | 29.3 | 2065 | 114 |
| 20 | 73D1-05C05000-U0BK8-NI-02 | 5C | 50 | 19 | 1.4 | 2.0 | 1.40 | 34.3 | 2790 | 142 |
| 21 | 73D1-05C07000-U0BK8-NI-02 | 5C | 70 | 19 | 1.4 | 2.2 | 1.56 | 38.8 | 3820 | 177 |
| 22 | 73D1-05C09500-U0BK8-NI-02 | 5C | 95 | 19 | 1.6 | 2.3 | 1.64 | 44.5 | 5110 | 213 |
| 23 | 73D1-05C12000-U0BK8-NI-02 | 5C | 120 | 19 | 1.6 | 2.5 | 1.80 | 48.8 | 6390 | 254 |

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



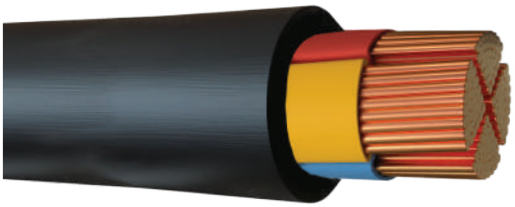
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 73F1-03C02500-U0BK8-00 | 3C | 25 | 7 | 1.2 | 1.8 | 1.24 | 19.2 | 940 | 69 |
| 2 | 73F1-03C03500-U0BK8-00 | 3C | 35 | 7 | 1.2 | 1.8 | 1.24 | 21.1 | 1240 | 76 |
| 3 | 73F1-03C05000-U0BK8-00 | 3C | 50 | 19 | 1.4 | 1.8 | 1.24 | 24.3 | 1670 | 89 |
| 4 | 73F1-03C07000-U0BK8-00 | 3C | 70 | 19 | 1.4 | 2.0 | 1.40 | 27.4 | 2305 | 112 |
| 5 | 73F1-03C09500-U0BK8-00 | 3C | 95 | 19 | 1.6 | 2.1 | 1.48 | 31.3 | 3080 | 135 |
| 6 | 73F1-03C12000-U0BK8-00 | 3C | 120 | 19 | 1.6 | 2.2 | 1.56 | 34.0 | 3820 | 154 |
| 7 | 73F1-03C15000-U0BK8-00 | 3C | 150 | 19 | 1.8 | 2.3 | 1.64 | 37.7 | 4705 | 179 |
| 8 | 73F1-03C18500-U0BK8-00 | 3C | 185 | 37 | 2.0 | 2.5 | 1.80 | 41.7 | 5795 | 215 |
| 9 | 73F1-03C24000-U0BK8-00 | 3C | 240 | 37 | 2.2 | 2.7 | 1.96 | 46.8 | 7545 | 262 |
| 10 | 73F1-03C30000-U0BK8-00 | 3C | 300 | 37 | 2.4 | 2.8 | 2.04 | 51.7 | 9530 | 301 |
| 11 | 73F1-03C40000-U0BK8-00 | 3C | 400 | 61 | 2.6 | 3.1 | 2.28 | 58.6 | 12000 | 378 |
| 12 | 73F1-04C02500-U0BK8-00 | 4C | 25 | 7 | 1.2 | 1.8 | 1.24 | 22.2 | 1245 | 81 |
| 13 | 73F1-04C03500-U0BK8-00 | 4C | 35 | 7 | 1.2 | 1.8 | 1.24 | 24.6 | 1650 | 90 |
| 14 | 73F1-04C05000-U0BK8-00 | 4C | 50 | 19 | 1.4 | 1.9 | 1.32 | 28.3 | 2220 | 110 |
| 15 | 73F1-04C07000-U0BK8-00 | 4C | 70 | 19 | 1.4 | 2.1 | 1.48 | 32.4 | 3085 | 140 |
| 16 | 73F1-04C09500-U0BK8-00 | 4C | 95 | 19 | 1.6 | 2.2 | 1.56 | 37.1 | 4130 | 169 |
| 17 | 73F1-04C12000-U0BK8-00 | 4C | 120 | 19 | 1.6 | 2.3 | 1.64 | 40.4 | 5120 | 193 |
| 18 | 73F1-04C15000-U0BK8-00 | 4C | 150 | 19 | 1.8 | 2.5 | 1.80 | 45.1 | 6340 | 234 |
| 19 | 73F1-04C18500-U0BK8-00 | 4C | 185 | 37 | 2.0 | 2.6 | 1.88 | 49.7 | 7780 | 269 |
| 20 | 73F1-04C24000-U0BK8-00 | 4C | 240 | 37 | 2.2 | 2.9 | 2.12 | 56.1 | 10165 | 339 |
| 21 | 73F1-04C30000-U0BK8-00 | 4C | 300 | 37 | 2.4 | 3.1 | 2.28 | 62.2 | 12795 | 403 |
| 22 | 73F1-04C40000-U0BK8-00 | 4C | 400 | 61 | 2.6 | 3.4 | 2.52 | 70.6 | 16155 | 502 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 73F1-03C02500-U0BK8-0A | 3C | 25 | 7 | 1.2 | 1.8 | 1.24 | 19.2 | 940 | 69 |
| 2 | 73F1-03C03500-U0BK8-0A | 3C | 35 | 7 | 1.2 | 1.8 | 1.24 | 21.1 | 1240 | 76 |
| 3 | 73F1-03C05000-U0BK8-0A | 3C | 50 | 19 | 1.4 | 1.8 | 1.24 | 24.3 | 1670 | 89 |
| 4 | 73F1-03C07000-U0BK8-0A | 3C | 70 | 19 | 1.4 | 2.0 | 1.40 | 27.4 | 2305 | 112 |
| 5 | 73F1-03C09500-U0BK8-0A | 3C | 95 | 19 | 1.6 | 2.1 | 1.48 | 31.3 | 3080 | 135 |
| 6 | 73F1-03C12000-U0BK8-0A | 3C | 120 | 19 | 1.6 | 2.2 | 1.56 | 34.0 | 3820 | 154 |
| 7 | 73F1-03C15000-U0BK8-0A | 3C | 150 | 19 | 1.8 | 2.3 | 1.64 | 37.7 | 4705 | 179 |
| 8 | 73F1-03C18500-U0BK8-0A | 3C | 185 | 37 | 2.0 | 2.5 | 1.80 | 41.7 | 5795 | 215 |
| 9 | 73F1-03C24000-U0BK8-0A | 3C | 240 | 37 | 2.2 | 2.7 | 1.96 | 46.8 | 7545 | 262 |
| 10 | 73F1-03C30000-U0BK8-0A | 3C | 300 | 37 | 2.4 | 2.8 | 2.04 | 51.7 | 9530 | 301 |
| 11 | 73F1-03C40000-U0BK8-0A | 3C | 400 | 61 | 2.6 | 3.1 | 2.28 | 58.6 | 12000 | 378 |
| 12 | 73F1-04C02500-U0BK8-0A | 4C | 25 | 7 | 1.2 | 1.8 | 1.24 | 22.2 | 1245 | 81 |
| 13 | 73F1-04C03500-U0BK8-0A | 4C | 35 | 7 | 1.2 | 1.8 | 1.24 | 24.6 | 1650 | 90 |
| 14 | 73F1-04C05000-U0BK8-0A | 4C | 50 | 19 | 1.4 | 1.9 | 1.32 | 28.3 | 2220 | 110 |
| 15 | 73F1-04C07000-U0BK8-0A | 4C | 70 | 19 | 1.4 | 2.1 | 1.48 | 32.4 | 3085 | 140 |
| 16 | 73F1-04C09500-U0BK8-0A | 4C | 95 | 19 | 1.6 | 2.2 | 1.56 | 37.1 | 4130 | 169 |
| 17 | 73F1-04C12000-U0BK8-0A | 4C | 120 | 19 | 1.6 | 2.3 | 1.64 | 40.4 | 5120 | 193 |
| 18 | 73F1-04C15000-U0BK8-0A | 4C | 150 | 19 | 1.8 | 2.5 | 1.80 | 45.1 | 6340 | 234 |
| 19 | 73F1-04C18500-U0BK8-0A | 4C | 185 | 37 | 2.0 | 2.6 | 1.88 | 49.7 | 7780 | 269 |
| 20 | 73F1-04C24000-U0BK8-0A | 4C | 240 | 37 | 2.2 | 2.9 | 2.12 | 56.1 | 10165 | 339 |
| 21 | 73F1-04C30000-U0BK8-0A | 4C | 300 | 37 | 2.4 | 3.1 | 2.28 | 62.2 | 12795 | 403 |
| 22 | 73F1-04C40000-U0BK8-0A | 4C | 400 | 61 | 2.6 | 3.4 | 2.52 | 70.6 | 16155 | 502 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 73F1-03C02500-U0BK8-NI | 3C | 25 | 7 | 1.2 | 1.8 | 1.24 | 19.2 | 940 | 69 |
| 2 | 73F1-03C03500-U0BK8-NI | 3C | 35 | 7 | 1.2 | 1.8 | 1.24 | 21.1 | 1240 | 76 |
| 3 | 73F1-03C05000-U0BK8-NI | 3C | 50 | 19 | 1.4 | 1.8 | 1.24 | 24.3 | 1670 | 89 |
| 4 | 73F1-03C07000-U0BK8-NI | 3C | 70 | 19 | 1.4 | 2.0 | 1.40 | 27.4 | 2305 | 112 |
| 5 | 73F1-03C09500-U0BK8-NI | 3C | 95 | 19 | 1.6 | 2.1 | 1.48 | 31.3 | 3080 | 135 |
| 6 | 73F1-03C12000-U0BK8-NI | 3C | 120 | 19 | 1.6 | 2.2 | 1.56 | 34.0 | 3820 | 154 |
| 7 | 73F1-03C15000-U0BK8-NI | 3C | 150 | 19 | 1.8 | 2.3 | 1.64 | 37.7 | 4705 | 179 |
| 8 | 73F1-03C18500-U0BK8-NI | 3C | 185 | 37 | 2.0 | 2.5 | 1.80 | 41.7 | 5795 | 215 |
| 9 | 73F1-03C24000-U0BK8-NI | 3C | 240 | 37 | 2.2 | 2.7 | 1.96 | 46.8 | 7545 | 262 |
| 10 | 73F1-03C30000-U0BK8-NI | 3C | 300 | 37 | 2.4 | 2.8 | 2.04 | 51.7 | 9530 | 301 |
| 11 | 73F1-03C40000-U0BK8-NI | 3C | 400 | 61 | 2.6 | 3.1 | 2.28 | 58.6 | 12000 | 378 |
| 12 | 73F1-04C02500-U0BK8-NI | 4C | 25 | 7 | 1.2 | 1.8 | 1.24 | 22.2 | 1245 | 81 |
| 13 | 73F1-04C03500-U0BK8-NI | 4C | 35 | 7 | 1.2 | 1.8 | 1.24 | 24.6 | 1650 | 90 |
| 14 | 73F1-04C05000-U0BK8-NI | 4C | 50 | 19 | 1.4 | 1.9 | 1.32 | 28.3 | 2220 | 110 |
| 15 | 73F1-04C07000-U0BK8-NI | 4C | 70 | 19 | 1.4 | 2.1 | 1.48 | 32.4 | 3085 | 140 |
| 16 | 73F1-04C09500-U0BK8-NI | 4C | 95 | 19 | 1.6 | 2.2 | 1.56 | 37.1 | 4130 | 169 |
| 17 | 73F1-04C12000-U0BK8-NI | 4C | 120 | 19 | 1.6 | 2.3 | 1.64 | 40.4 | 5120 | 193 |
| 18 | 73F1-04C15000-U0BK8-NI | 4C | 150 | 19 | 1.8 | 2.5 | 1.80 | 45.1 | 6340 | 234 |
| 19 | 73F1-04C18500-U0BK8-NI | 4C | 185 | 37 | 2.0 | 2.6 | 1.88 | 49.7 | 7780 | 269 |
| 20 | 73F1-04C24000-U0BK8-NI | 4C | 240 | 37 | 2.2 | 2.9 | 2.12 | 56.1 | 10165 | 339 |
| 21 | 73F1-04C30000-U0BK8-NI | 4C | 300 | 37 | 2.4 | 3.1 | 2.28 | 62.2 | 12795 | 403 |
| 22 | 73F1-04C40000-U0BK8-NI | 4C | 400 | 61 | 2.6 | 3.4 | 2.52 | 70.6 | 16155 | 502 |

# CONTROL, MULTI CORE, UNARMOURED CABLE

CU/PVC/PVC

SPECIFICATION: IEC 60502-1


| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | PVC TI-3 |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C & above: Black core with Number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/PVC/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1***<br>LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
** Other sheath color available on request.
***Flame Retardant Property of cable will be as per requirement.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-U0BK8-00 | 2 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.2 | 130 | 33 |
| 2 | 7311-03C00150-U0BK8-00 | 3 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.7 | 155 | 35 |
| 3 | 7311-04C00150-U0BK8-00 | 4 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 11.5 | 190 | 38 |
| 4 | 7311-05C00150-U0BK8-00 | 5 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 12.4 | 220 | 42 |
| 5 | 7311-06C00150-U0BK8-00 | 6 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 13.3 | 255 | 45 |
| 6 | 7311-07C00150-U0BK8-00 | 7 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 13.3 | 275 | 45 |
| 7 | 7311-08C00150-U0BK8-00 | 8 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 14.8 | 315 | 51 |
| 8 | 7311-10C00150-U0BK8-00 | 10 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 16.5 | 377 | 58 |
| 9 | 7311-12C00150-U0BK8-00 | 12 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 17.0 | 443 | 60 |
| 10 | 7311-14C00150-U0BK8-00 | 14 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 17.8 | 487 | 63 |
| 11 | 7311-15C00150-U0BK8-00 | 15 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 18.7 | 518 | 67 |
| 12 | 7311-16C00150-U0BK8-00 | 16 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 18.7 | 542 | 67 |
| 13 | 7311-18C00150-U0BK8-00 | 18 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 605 | 71 |
| 14 | 7311-19C00150-U0BK8-00 | 19 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 625 | 71 |
| 15 | 7311-20C00150-U0BK8-00 | 20 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 656 | 75 |
| 16 | 7311-22C00150-U0BK8-00 | 22 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 723 | 79 |
| 17 | 7311-24C00150-U0BK8-00 | 24 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 775 | 83 |
| 18 | 7311-25C00150-U0BK8-00 | 25 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 800 | 83 |
| 19 | 7311-26C00150-U0BK8-00 | 26 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 825 | 83 |
| 20 | 7311-30C00150-U0BK8-00 | 30 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 24.2 | 931 | 89 |
| 21 | 7311-32C00150-U0BK8-00 | 32 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 25.1 | 991 | 92 |
| 22 | 7311-35C00150-U0BK8-00 | 35 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 26.1 | 1074 | 96 |
| 23 | 7311-36C00150-U0BK8-00 | 36 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 26.1 | 1094 | 96 |
| 24 | 7311-40C00150-U0BK8-00 | 40 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 27.1 | 1199 | 100 |
| 25 | 7311-50C00150-U0BK8-00 | 50 | 1.5 | 7 | 0.8 | 1.9 | 1.32 | 30.6 | 1483 | 120 |
| 26 | 7311-61C00150-U0BK8-00 | 61 | 1.5 | 7 | 0.8 | 1.9 | 1.32 | 32.7 | 1769 | 129 |

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 27 | 7311-02C00250-U0BK8-00 | 2 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.0 | 155 | 36 |
| 28 | 7311-03C00250-U0BK8-00 | 3 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.6 | 195 | 39 |
| 29 | 7311-04C00250-U0BK8-00 | 4 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 12.5 | 240 | 42 |
| 30 | 7311-05C00250-U0BK8-00 | 5 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 13.6 | 285 | 47 |
| 31 | 7311-06C00250-U0BK8-00 | 6 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 14.6 | 330 | 51 |
| 32 | 7311-07C00250-U0BK8-00 | 7 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 14.6 | 360 | 51 |
| 33 | 7311-08C00250-U0BK8-00 | 8 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 16.2 | 409 | 57 |
| 34 | 7311-10C00250-U0BK8-00 | 10 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 18.2 | 497 | 65 |
| 35 | 7311-12C00250-U0BK8-00 | 12 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 18.8 | 585 | 67 |
| 36 | 7311-14C00250-U0BK8-00 | 14 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 662 | 71 |
| 37 | 7311-15C00250-U0BK8-00 | 15 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 692 | 75 |
| 38 | 7311-16C00250-U0BK8-00 | 16 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 726 | 75 |
| 39 | 7311-18C00250-U0BK8-00 | 18 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 810 | 79 |
| 40 | 7311-19C00250-U0BK8-00 | 19 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 840 | 79 |
| 41 | 7311-20C00250-U0BK8-00 | 20 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 23.0 | 886 | 84 |
| 42 | 7311-22C00250-U0BK8-00 | 22 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 24.2 | 964 | 89 |
| 43 | 7311-24C00250-U0BK8-00 | 24 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1045 | 93 |
| 44 | 7311-25C00250-U0BK8-00 | 25 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1080 | 93 |
| 45 | 7311-26C00250-U0BK8-00 | 26 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1115 | 93 |
| 46 | 7311-30C00250-U0BK8-00 | 30 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 26.9 | 1265 | 99 |
| 47 | 7311-32C00250-U0BK8-00 | 32 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 27.9 | 1340 | 103 |
| 48 | 7311-35C00250-U0BK8-00 | 35 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 29.0 | 1453 | 108 |
| 49 | 7311-36C00250-U0BK8-00 | 36 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 29.0 | 1490 | 108 |
| 50 | 7311-40C00250-U0BK8-00 | 40 | 2.5 | 7 | 0.8 | 1.9 | 1.32 | 30.4 | 1650 | 113 |
| 51 | 7311-50C00250-U0BK8-00 | 50 | 2.5 | 7 | 0.8 | 2.0 | 1.40 | 34.3 | 2045 | 129 |
| 52 | 7311-61C00250-U0BK8-00 | 61 | 2.5 | 7 | 0.8 | 2.1 | 1.48 | 36.8 | 2465 | 138 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-U0BK8-0A | 2 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.2 | 130 | 33 |
| 2 | 7311-03C00150-U0BK8-0A | 3 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.7 | 155 | 35 |
| 3 | 7311-04C00150-U0BK8-0A | 4 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 11.5 | 190 | 38 |
| 4 | 7311-05C00150-U0BK8-0A | 5 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 12.4 | 220 | 42 |
| 5 | 7311-06C00150-U0BK8-0A | 6 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 13.3 | 255 | 45 |
| 6 | 7311-07C00150-U0BK8-0A | 7 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 13.3 | 275 | 45 |
| 7 | 7311-08C00150-U0BK8-0A | 8 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 14.8 | 315 | 51 |
| 8 | 7311-10C00150-U0BK8-0A | 10 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 16.5 | 377 | 58 |
| 9 | 7311-12C00150-U0BK8-0A | 12 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 17.0 | 443 | 60 |
| 10 | 7311-14C00150-U0BK8-0A | 14 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 17.8 | 487 | 63 |
| 11 | 7311-15C00150-U0BK8-0A | 15 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 18.7 | 518 | 67 |
| 12 | 7311-16C00150-U0BK8-0A | 16 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 18.7 | 542 | 67 |
| 13 | 7311-18C00150-U0BK8-0A | 18 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 605 | 71 |
| 14 | 7311-19C00150-U0BK8-0A | 19 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 625 | 71 |
| 15 | 7311-20C00150-U0BK8-0A | 20 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 656 | 75 |
| 16 | 7311-22C00150-U0BK8-0A | 22 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 723 | 79 |
| 17 | 7311-24C00150-U0BK8-0A | 24 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 775 | 83 |
| 18 | 7311-25C00150-U0BK8-0A | 25 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 800 | 83 |
| 19 | 7311-26C00150-U0BK8-0A | 26 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 825 | 83 |
| 20 | 7311-30C00150-U0BK8-0A | 30 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 24.2 | 931 | 89 |
| 21 | 7311-32C00150-U0BK8-0A | 32 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 25.1 | 991 | 92 |
| 22 | 7311-35C00150-U0BK8-0A | 35 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 26.1 | 1074 | 96 |
| 23 | 7311-36C00150-U0BK8-0A | 36 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 26.1 | 1094 | 96 |
| 24 | 7311-40C00150-U0BK8-0A | 40 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 27.1 | 1199 | 100 |
| 25 | 7311-50C00150-U0BK8-0A | 50 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 30.6 | 1483 | 120 |
| 26 | 7311-61C00150-U0BK8-0A | 61 | 1.5 | 7 | 0.8 | 1.9 | 1.32 | 32.7 | 1769 | 129 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 27 | 7311-02C00250-U0BK8-0A | 2 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.0 | 155 | 36 |
| 28 | 7311-03C00250-U0BK8-0A | 3 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.6 | 195 | 39 |
| 29 | 7311-04C00250-U0BK8-0A | 4 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 12.5 | 240 | 42 |
| 30 | 7311-05C00250-U0BK8-0A | 5 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 13.6 | 285 | 47 |
| 31 | 7311-06C00250-U0BK8-0A | 6 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 14.6 | 330 | 51 |
| 32 | 7311-07C00250-U0BK8-0A | 7 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 14.6 | 360 | 51 |
| 33 | 7311-08C00250-U0BK8-0A | 8 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 16.2 | 409 | 57 |
| 34 | 7311-10C00250-U0BK8-0A | 10 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 18.2 | 497 | 65 |
| 35 | 7311-12C00250-U0BK8-0A | 12 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 18.8 | 585 | 67 |
| 36 | 7311-14C00250-U0BK8-0A | 14 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 662 | 71 |
| 37 | 7311-15C00250-U0BK8-0A | 15 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 692 | 75 |
| 38 | 7311-16C00250-U0BK8-0A | 16 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 726 | 75 |
| 39 | 7311-18C00250-U0BK8-0A | 18 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 810 | 79 |
| 40 | 7311-19C00250-U0BK8-0A | 19 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 840 | 79 |
| 41 | 7311-20C00250-U0BK8-0A | 20 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 23.0 | 886 | 84 |
| 42 | 7311-22C00250-U0BK8-0A | 22 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 24.2 | 964 | 89 |
| 43 | 7311-24C00250-U0BK8-0A | 24 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1045 | 93 |
| 44 | 7311-25C00250-U0BK8-0A | 25 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1080 | 93 |
| 45 | 7311-26C00250-U0BK8-0A | 26 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1115 | 93 |
| 46 | 7311-30C00250-U0BK8-0A | 30 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 26.9 | 1265 | 99 |
| 47 | 7311-32C00250-U0BK8-0A | 32 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 27.9 | 1340 | 103 |
| 48 | 7311-35C00250-U0BK8-0A | 35 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 29.0 | 1453 | 108 |
| 49 | 7311-36C00250-U0BK8-0A | 36 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 29.0 | 1490 | 108 |
| 50 | 7311-40C00250-U0BK8-0A | 40 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 30.4 | 1650 | 113 |
| 51 | 7311-50C00250-U0BK8-0A | 50 | 2.5 | 7 | 0.8 | 1.9 | 1.32 | 34.3 | 2045 | 129 |
| 52 | 7311-61C00250-U0BK8-0A | 61 | 2.5 | 7 | 0.8 | 2.0 | 1.40 | 36.8 | 2465 | 138 |

**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-U0BK8-NI | 2 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.2 | 130 | 33 |
| 2 | 7311-03C00150-U0BK8-NI | 3 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 10.7 | 155 | 35 |
| 3 | 7311-04C00150-U0BK8-NI | 4 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 11.5 | 190 | 38 |
| 4 | 7311-05C00150-U0BK8-NI | 5 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 12.4 | 220 | 42 |
| 5 | 7311-06C00150-U0BK8-NI | 6 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 13.3 | 255 | 45 |
| 6 | 7311-07C00150-U0BK8-NI | 7 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 13.3 | 275 | 45 |
| 7 | 7311-08C00150-U0BK8-NI | 8 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 14.8 | 315 | 51 |
| 8 | 7311-10C00150-U0BK8-NI | 10 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 16.5 | 377 | 58 |
| 9 | 7311-12C00150-U0BK8-NI | 12 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 17.0 | 443 | 60 |
| 10 | 7311-14C00150-U0BK8-NI | 14 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 17.8 | 487 | 63 |
| 11 | 7311-15C00150-U0BK8-NI | 15 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 18.7 | 518 | 67 |
| 12 | 7311-16C00150-U0BK8-NI | 16 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 18.7 | 542 | 67 |
| 13 | 7311-18C00150-U0BK8-NI | 18 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 605 | 71 |
| 14 | 7311-19C00150-U0BK8-NI | 19 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 625 | 71 |
| 15 | 7311-20C00150-U0BK8-NI | 20 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 656 | 75 |
| 16 | 7311-22C00150-U0BK8-NI | 22 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 723 | 79 |
| 17 | 7311-24C00150-U0BK8-NI | 24 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 775 | 83 |
| 18 | 7311-25C00150-U0BK8-NI | 25 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 800 | 83 |
| 19 | 7311-26C00150-U0BK8-NI | 26 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 22.9 | 825 | 83 |
| 20 | 7311-30C00150-U0BK8-NI | 30 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 24.2 | 931 | 89 |
| 21 | 7311-32C00150-U0BK8-NI | 32 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 25.1 | 991 | 92 |
| 22 | 7311-35C00150-U0BK8-NI | 35 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 26.1 | 1074 | 96 |
| 23 | 7311-36C00150-U0BK8-NI | 36 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 26.1 | 1094 | 96 |
| 24 | 7311-40C00150-U0BK8-NI | 40 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 27.1 | 1199 | 100 |
| 25 | 7311-50C00150-U0BK8-NI | 50 | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 30.6 | 1483 | 120 |
| 26 | 7311-61C00150-U0BK8-NI | 61 | 1.5 | 7 | 0.8 | 1.9 | 1.32 | 32.7 | 1769 | 129 |

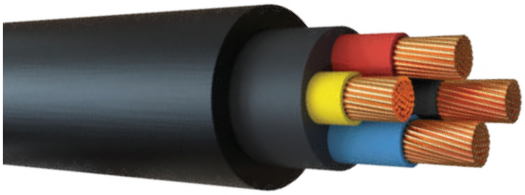
**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 27 | 7311-02C00250-U0BK8-NI | 2 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.0 | 155 | 36 |
| 28 | 7311-03C00250-U0BK8-NI | 3 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 11.6 | 195 | 39 |
| 29 | 7311-04C00250-U0BK8-NI | 4 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 12.5 | 240 | 42 |
| 30 | 7311-05C00250-U0BK8-NI | 5 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 13.6 | 285 | 47 |
| 31 | 7311-06C00250-U0BK8-NI | 6 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 14.6 | 330 | 51 |
| 32 | 7311-07C00250-U0BK8-NI | 7 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 14.6 | 360 | 51 |
| 33 | 7311-08C00250-U0BK8-NI | 8 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 16.2 | 409 | 57 |
| 34 | 7311-10C00250-U0BK8-NI | 10 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 18.2 | 497 | 65 |
| 35 | 7311-12C00250-U0BK8-NI | 12 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 18.8 | 585 | 67 |
| 36 | 7311-14C00250-U0BK8-NI | 14 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 19.7 | 662 | 71 |
| 37 | 7311-15C00250-U0BK8-NI | 15 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 692 | 75 |
| 38 | 7311-16C00250-U0BK8-NI | 16 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 20.7 | 726 | 75 |
| 39 | 7311-18C00250-U0BK8-NI | 18 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 810 | 79 |
| 40 | 7311-19C00250-U0BK8-NI | 19 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 21.8 | 840 | 79 |
| 41 | 7311-20C00250-U0BK8-NI | 20 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 23.0 | 886 | 84 |
| 42 | 7311-22C00250-U0BK8-NI | 22 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 24.2 | 964 | 89 |
| 43 | 7311-24C00250-U0BK8-NI | 24 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1045 | 93 |
| 44 | 7311-25C00250-U0BK8-NI | 25 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1080 | 93 |
| 45 | 7311-26C00250-U0BK8-NI | 26 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 25.4 | 1115 | 93 |
| 46 | 7311-30C00250-U0BK8-NI | 30 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 26.9 | 1265 | 99 |
| 47 | 7311-32C00250-U0BK8-NI | 32 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 27.9 | 1340 | 103 |
| 48 | 7311-35C00250-U0BK8-NI | 35 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 29.0 | 1453 | 108 |
| 49 | 7311-36C00250-U0BK8-NI | 36 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 29.0 | 1490 | 108 |
| 50 | 7311-40C00250-U0BK8-NI | 40 | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 30.4 | 1650 | 113 |
| 51 | 7311-50C00250-U0BK8-NI | 50 | 2.5 | 7 | 0.8 | 1.9 | 1.32 | 34.3 | 2045 | 129 |
| 52 | 7311-61C00250-U0BK8-NI | 61 | 2.5 | 7 | 0.8 | 2.0 | 1.40 | 36.8 | 2465 | 138 |

# LV POWER, MULTI CORE, UN-ARMOURED, DOUBLE SHEATHED (SUBMERSIBLE) CABLE

CU/PVC/PVC/PVC

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and witching station, local distribution system, industrial plant, commercial building and submersible motor & pump. |

## CONSTRUCTION

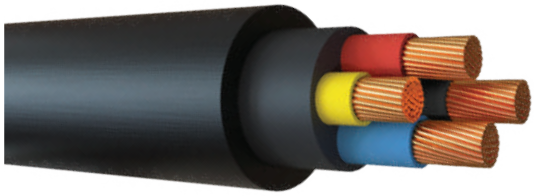
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | PVC TI-3 |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer & extruded filled type sheath is provided over Assembly. |
| Inner Covering | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/PVC/PVC NO. OF CORES C X SIZE 600/1000V MESC YEAR<br>IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |

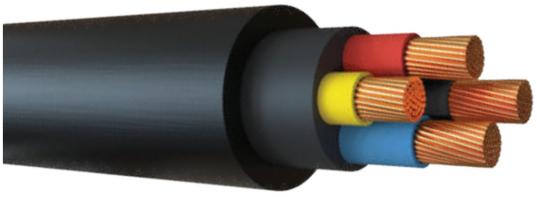
*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B,
IEC 60332-3-23 CAT C, UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2**
**CIRCULAR CONDUCTOR:**



| SERAIL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-U0BK8-IRQ* | 2C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 11.8 | 202 | 40 |
| 2 | 7311-02C00250-U0BK8-IRQ* | 2C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 12.6 | 241 | 43 |
| 3 | 7311-02C00400-U0BK8-IRQ* | 2C | 4 | 7 | 1.0 | 1.8 | 1.24 | 14.4 | 324 | 50 |
| 4 | 7311-02C00600-U0BK8-IRQ* | 2C | 6 | 7 | 1.0 | 1.8 | 1.24 | 15.6 | 400 | 55 |
| 5 | 7311-02C01000-U0BK8-IRQ* | 2C | 10 | 7 | 1.0 | 1.8 | 1.24 | 17.5 | 540 | 62 |
| 6 | 73D1-02C01600-U0BK8-IRQ | 2C | 16 | 7 | 1.0 | 1.8 | 1.24 | 18.8 | 683 | 67 |
| 7 | 73D1-02C02500-U0BK8-IRQ | 2C | 25 | 7 | 1.2 | 1.8 | 1.24 | 22.0 | 975 | 80 |
| 8 | 73D1-02C03500-U0BK8-IRQ | 2C | 35 | 7 | 1.2 | 1.8 | 1.24 | 24.2 | 1250 | 89 |
| 9 | 73D1-02C05000-U0BK8-IRQ | 2C | 50 | 19 | 1.4 | 1.8 | 1.24 | 27.7 | 1650 | 102 |
| 10 | 73D1-02C07000-U0BK8-IRQ | 2C | 70 | 19 | 1.4 | 1.9 | 1.32 | 31.1 | 2205 | 122 |
| 11 | 73D1-02C09500-U0BK8-IRQ | 2C | 95 | 19 | 1.6 | 2.0 | 1.40 | 35.4 | 2915 | 147 |
| 12 | 73D1-02C12000-U0BK8-IRQ | 2C | 120 | 19 | 1.6 | 2.1 | 1.48 | 38.5 | 3570 | 168 |
| 13 | 73D1-02C15000-U0BK8-IRQ | 2C | 150 | 19 | 1.8 | 2.2 | 1.56 | 42.5 | 4375 | 195 |
| 14 | 73D1-02C18500-U0BK8-IRQ | 2C | 185 | 37 | 2.0 | 2.4 | 1.72 | 46.9 | 5345 | 235 |
| 15 | 73D1-02C24000-U0BK8-IRQ | 2C | 240 | 37 | 2.2 | 2.6 | 1.88 | 52.6 | 6890 | 285 |
| 16 | 7311-03C00150-U0BK8-IRQ* | 3C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 12.3 | 230 | 42 |
| 17 | 7311-03C00250-U0BK8-IRQ* | 3C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 13.2 | 278 | 45 |
| 18 | 7311-03C00400-U0BK8-IRQ* | 3C | 4 | 7 | 1.0 | 1.8 | 1.24 | 15.2 | 380 | 53 |
| 19 | 7311-03C00600-U0BK8-IRQ* | 3C | 6 | 7 | 1.0 | 1.8 | 1.24 | 16.5 | 479 | 58 |
| 20 | 7311-03C01000-U0BK8-IRQ* | 3C | 10 | 7 | 1.0 | 1.8 | 1.24 | 18.5 | 658 | 66 |
| 21 | 73D1-03C01600-U0BK8-IRQ | 3C | 16 | 7 | 1.0 | 1.8 | 1.24 | 19.9 | 850 | 72 |
| 22 | 73D1-03C02500-U0BK8-IRQ | 3C | 25 | 7 | 1.2 | 1.8 | 1.24 | 23.3 | 1225 | 85 |
| 23 | 73D1-03C03500-U0BK8-IRQ | 3C | 35 | 7 | 1.2 | 1.8 | 1.24 | 25.7 | 1590 | 95 |
| 24 | 73D1-03C05000-U0BK8-IRQ | 3C | 50 | 19 | 1.4 | 1.8 | 1.24 | 29.5 | 2085 | 110 |
| 25 | 7311-04C00150-U0BK8-IRQ* | 4C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 13.1 | 265 | 45 |
| 26 | 7311-04C00250-U0BK8-IRQ* | 4C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 14.1 | 327 | 49 |

**TABLE: IEC 60332-1-2**
**CIRCULAR CONDUCTOR:**



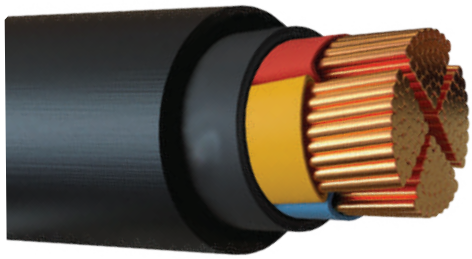
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 27 | 7311-04C00400-U0BK8-IRQ* | 4C | 4 | 7 | 1.0 | 1.8 | 1.24 | 16.3 | 453 | 57 |
| 28 | 7311-04C00600-U0BK8-IRQ* | 4C | 6 | 7 | 1.0 | 1.8 | 1.24 | 17.8 | 578 | 63 |
| 29 | 7311-04C01000-U0BK8-IRQ* | 4C | 10 | 7 | 1.0 | 1.8 | 1.24 | 20.0 | 805 | 72 |
| 30 | 73D1-04C01600-U0BK8-IRQ | 4C | 16 | 7 | 1.0 | 1.8 | 1.24 | 21.7 | 1058 | 79 |
| 31 | 73D1-04C02500-U0BK8-IRQ | 4C | 25 | 7 | 1.2 | 1.8 | 1.24 | 25.5 | 1535 | 94 |
| 32 | 73D1-04C03500-U0BK8-IRQ | 4C | 35 | 7 | 1.2 | 1.8 | 1.24 | 28.1 | 1955 | 104 |
| 33 | 73D1-04C05000-U0BK8-IRQ | 4C | 50 | 19 | 1.4 | 1.9 | 1.32 | 32.6 | 2655 | 128 |
| 34 | 7311-05C00150-U0BK8-IRQ-02* | 5C | 1.5 | 7 | 0.8 | 1.8 | 1.24 | 14.0 | 307 | 48 |
| 35 | 7311-05C00250-U0BK8-IRQ-02* | 5C | 2.5 | 7 | 0.8 | 1.8 | 1.24 | 15.2 | 385 | 53 |
| 36 | 7311-05C00400-U0BK8-IRQ-02* | 5C | 4 | 7 | 1.0 | 1.8 | 1.24 | 17.6 | 535 | 62 |
| 37 | 7311-05C00600-U0BK8-IRQ-02* | 5C | 6 | 7 | 1.0 | 1.8 | 1.24 | 19.2 | 687 | 69 |
| 38 | 7311-05C01000-U0BK8-IRQ-02* | 5C | 10 | 7 | 1.0 | 1.8 | 1.24 | 21.7 | 965 | 79 |
| 39 | 73D1-05C01600-U0BK8-IRQ-02 | 5C | 16 | 7 | 1.0 | 1.8 | 1.24 | 23.5 | 1275 | 86 |
| 40 | 73D1-05C02500-U0BK8-IRQ-02 | 5C | 25 | 7 | 1.2 | 1.8 | 1.24 | 27.8 | 1870 | 103 |
| 41 | 73D1-05C03500-U0BK8-IRQ-02 | 5C | 35 | 7 | 1.2 | 1.9 | 1.32 | 30.9 | 2465 | 121 |
| 42 | 73D1-05C05000-U0BK8-IRQ-02 | 5C | 50 | 19 | 1.4 | 2.0 | 1.40 | 35.9 | 3300 | 149 |
| 43 | 73D1-05C07000-U0BK8-IRQ-02 | 5C | 70 | 19 | 1.4 | 2.2 | 1.56 | 40.8 | 4540 | 187 |
| 44 | 73D1-05C09500-U0BK8-IRQ-02 | 5C | 95 | 19 | 1.6 | 2.4 | 1.72 | 46.7 | 6055 | 234 |
| 45 | 73D1-05C12000-U0BK8-IRQ-02 | 5C | 120 | 19 | 1.6 | 2.5 | 1.80 | 50.8 | 7475 | 265 |

*Non-Compacted conductor, all other compacted conductor

# LV POWER, MULTI CORE, UN-ARMOURED DOUBLE SHEATHED CABLE

CU/PVC/PVC/PVC

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and witching station, local distribution system, industrial plant, commercial building and mountain area. |

## CONSTRUCTION

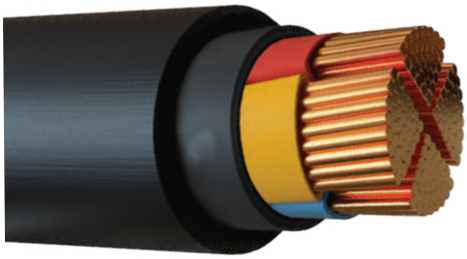
| | |
|---|---|
| Conductor | Sector shaped stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | PVC TI-3 |
| Color Code* | 3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape. |
| Inner Covering | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/PVC/PVC NO. OF CORES C X SIZE 600/1000V MESC YEAR<br>IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B,
IEC 60332-3-23 CAT C, UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:

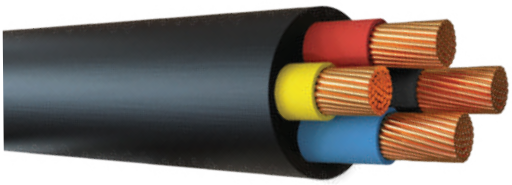


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 73F1-03C02500-U0BK8-IRQ | 3C | 25 | 7 | 1.2 | 1.8 | 1.24 | 21.0 | 1040 | 76 |
| 2 | 73F1-03C03500-U0BK8-IRQ | 3C | 35 | 7 | 1.2 | 1.8 | 1.24 | 22.9 | 1347 | 83 |
| 3 | 73F1-03C05000-U0BK8-IRQ | 3C | 50 | 19 | 1.4 | 1.8 | 1.24 | 26.1 | 1795 | 96 |
| 4 | 73F1-03C07000-U0BK8-IRQ | 3C | 70 | 19 | 1.4 | 2.0 | 1.40 | 29.4 | 2458 | 120 |
| 5 | 73F1-03C09500-U0BK8-IRQ | 3C | 95 | 19 | 1.6 | 2.1 | 1.48 | 33.3 | 3253 | 144 |
| 6 | 73F1-03C12000-U0BK8-IRQ | 3C | 120 | 19 | 1.6 | 2.2 | 1.56 | 36.0 | 4012 | 163 |
| 7 | 73F1-03C15000-U0BK8-IRQ | 3C | 150 | 19 | 1.8 | 2.3 | 1.64 | 39.7 | 4935 | 189 |
| 8 | 73F1-03C18500-U0BK8-IRQ | 3C | 185 | 37 | 2.0 | 2.5 | 1.80 | 43.7 | 6020 | 226 |
| 9 | 73F1-03C24000-U0BK8-IRQ | 3C | 240 | 37 | 2.2 | 2.7 | 1.96 | 48.8 | 7822 | 274 |
| 10 | 73F1-04C02500-U0BK8-IRQ | 4C | 25 | 7 | 1.2 | 1.8 | 1.24 | 24.0 | 1355 | 88 |
| 11 | 73F1-04C03500-U0BK8-IRQ | 4C | 35 | 7 | 1.2 | 1.8 | 1.24 | 26.4 | 1769 | 97 |
| 12 | 73F1-04C05000-U0BK8-IRQ | 4C | 50 | 19 | 1.4 | 1.9 | 1.32 | 30.5 | 2394 | 119 |
| 13 | 73F1-04C07000-U0BK8-IRQ | 4C | 70 | 19 | 1.4 | 2.1 | 1.48 | 34.4 | 3265 | 149 |
| 14 | 73F1-04C09500-U0BK8-IRQ | 4C | 95 | 19 | 1.6 | 2.2 | 1.56 | 39.1 | 4330 | 178 |
| 15 | 73F1-04C12000-U0BK8-IRQ | 4C | 120 | 19 | 1.6 | 2.3 | 1.64 | 42.4 | 5345 | 203 |
| 16 | 73F1-04C15000-U0BK8-IRQ | 4C | 150 | 19 | 1.8 | 2.5 | 1.80 | 47.1 | 6592 | 245 |
| 17 | 73F1-04C18500-U0BK8-IRQ | 4C | 185 | 37 | 2.0 | 2.7 | 1.96 | 51.9 | 8075 | 292 |
| 18 | 73F1-04C24000-U0BK8-IRQ | 4C | 240 | 37 | 2.2 | 2.9 | 2.12 | 57.7 | 10425 | 349 |

# LV POWER, SINGLE/MULTI CORE, UNARMOURED CABLE

CU/XLPE/PVC

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

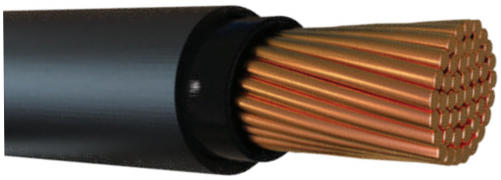
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 1C: Black<br>2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling** | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Applicable only for Multi-Core cables.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

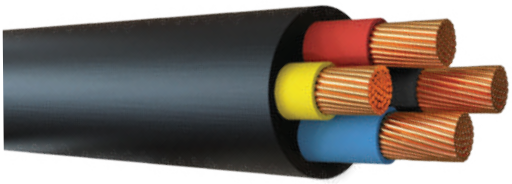
**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-01C00150-U0BK8-NI* | 1C | 1.5 | 7 | 0.7 | 1.4 | 0.92 | 5.8 | 50 | 14 |
| 2 | 7614-01C00250-U0BK8-NI* | 1C | 2.5 | 7 | 0.7 | 1.4 | 0.92 | 6.2 | 61 | 15 |
| 3 | 7614-01C00400-U0BK8-NI* | 1C | 4 | 7 | 0.7 | 1.4 | 0.92 | 6.7 | 75 | 16 |
| 4 | 7614-01C00600-U0BK8-NI* | 1C | 6 | 7 | 0.7 | 1.4 | 0.92 | 7.3 | 100 | 18 |
| 5 | 7614-01C01000-U0BK8-NI* | 1C | 10 | 7 | 0.7 | 1.4 | 0.92 | 8.3 | 150 | 21 |
| 6 | 76D4-01C01600-U0BK8-NI | 1C | 16 | 7 | 0.7 | 1.4 | 0.92 | 8.9 | 205 | 23 |
| 7 | 76D4-01C02500-U0BK8-NI | 1C | 25 | 7 | 0.9 | 1.4 | 0.92 | 10.5 | 300 | 28 |
| 8 | 76D4-01C03500-U0BK8-NI | 1C | 35 | 7 | 0.9 | 1.4 | 0.92 | 11.6 | 400 | 31 |
| 9 | 76D4-01C05000-U0BK8-NI | 1C | 50 | 19 | 1.0 | 1.4 | 0.92 | 13.1 | 525 | 36 |
| 10 | 76D4-01C07000-U0BK8-NI | 1C | 70 | 19 | 1.1 | 1.4 | 0.92 | 14.9 | 725 | 42 |
| 11 | 76D4-01C09500-U0BK8-NI | 1C | 95 | 19 | 1.1 | 1.5 | 1.00 | 16.7 | 970 | 47 |
| 12 | 76D4-01C12000-U0BK8-NI | 1C | 120 | 19 | 1.2 | 1.5 | 1.00 | 18.3 | 1215 | 55 |
| 13 | 76D4-01C15000-U0BK8-NI | 1C | 150 | 19 | 1.4 | 1.6 | 1.08 | 20.5 | 1500 | 66 |
| 14 | 76D4-01C18500-U0BK8-NI | 1C | 185 | 37 | 1.6 | 1.6 | 1.08 | 22.7 | 1850 | 73 |
| 15 | 76D4-01C24000-U0BK8-NI | 1C | 240 | 37 | 1.7 | 1.7 | 1.16 | 25.1 | 2385 | 87 |
| 16 | 76D4-01C30000-U0BK8-NI | 1C | 300 | 37 | 1.8 | 1.8 | 1.24 | 27.6 | 2975 | 102 |
| 17 | 76D4-01C40000-U0BK8-NI | 1C | 400 | 61 | 2.0 | 1.9 | 1.32 | 31.4 | 3775 | 123 |
| 18 | 76D4-01C50000-U0BK8-NI | 1C | 500 | 61 | 2.2 | 2.0 | 1.40 | 34.8 | 4800 | 144 |
| 13 | 76D4-01C63000-U0BK8-NI | 1C | 630 | 61 | 2.4 | 2.2 | 1.56 | 39.1 | 6200 | 178 |
| 14 | 76D4-01C80000-U0BK8-NI | 1C | 800 | 61 | 2.6 | 2.3 | 1.64 | 43.5 | 8100 | 208 |
| 15 | 76D4-1C100000-U0BK8-NI | 1C | 1000 | 61 | 2.8 | 2.4 | 1.72 | 48.7 | 10125 | 244 |
| 16 | 7614-01C80000-U0BK8-NI* | 1C | 800 | 91 | 2.6 | 2.3 | 1.64 | 46.9 | 8150 | 226 |
| 17 | 7614-1C100000-U0BK8-NI* | 1C | 1000 | 91 | 2.8 | 2.4 | 1.72 | 52.0 | 10200 | 262 |

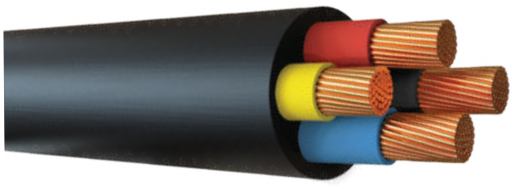
*Non-Compacted circular conductor, other compacted circular conductor

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:



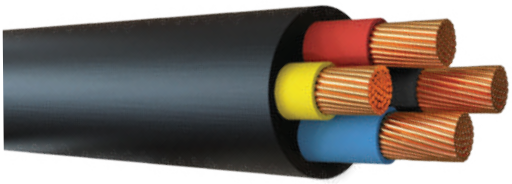
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-00 | 2C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 9.8 | 110 | 32 |
| 2 | 7614-02C00250-U0BK8-00 | 2C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 10.6 | 135 | 35 |
| 3 | 7614-02C00400-U0BK8-00 | 2C | 4 | 7 | 0.7 | 1.8 | 1.24 | 11.6 | 175 | 39 |
| 4 | 7614-02C00600-U0BK8-00 | 2C | 6 | 7 | 0.7 | 1.8 | 1.24 | 12.8 | 230 | 43 |
| 5 | 7614-02C01000-U0BK8-00 | 2C | 10 | 7 | 0.7 | 1.8 | 1.24 | 14.7 | 325 | 51 |
| 6 | 7614-03C00150-U0BK8-00 | 3C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 10.3 | 140 | 34 |
| 7 | 7614-03C00250-U0BK8-00 | 3C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 11.2 | 175 | 37 |
| 8 | 7614-03C00400-U0BK8-00 | 3C | 4 | 7 | 0.7 | 1.8 | 1.24 | 12.3 | 230 | 42 |
| 9 | 7614-03C00600-U0BK8-00 | 3C | 6 | 7 | 0.7 | 1.8 | 1.24 | 13.6 | 300 | 46 |
| 10 | 7614-03C01000-U0BK8-00 | 3C | 10 | 7 | 0.7 | 1.8 | 1.24 | 15.6 | 440 | 55 |
| 11 | 7614-04C00150-U0BK8-00 | 4C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.0 | 165 | 36 |
| 12 | 7614-04C00250-U0BK8-00 | 4C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 12.1 | 210 | 41 |
| 13 | 7614-04C00400-U0BK8-00 | 4C | 4 | 7 | 0.7 | 1.8 | 1.24 | 13.3 | 280 | 45 |
| 14 | 7614-04C00600-U0BK8-00 | 4C | 6 | 7 | 0.7 | 1.8 | 1.24 | 14.7 | 375 | 51 |
| 15 | 7614-04C01000-U0BK8-00 | 4C | 10 | 7 | 0.7 | 1.8 | 1.24 | 17.0 | 550 | 60 |
| 16 | 7614-05C00150-U0BK8-00-02 | 5C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.9 | 190 | 40 |
| 17 | 7614-05C00250-U0BK8-00-02 | 5C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 13.0 | 250 | 44 |
| 18 | 7614-05C00400-U0BK8-00-02 | 5C | 4 | 7 | 0.7 | 1.8 | 1.24 | 14.4 | 330 | 50 |
| 19 | 7614-05C00600-U0BK8-00-02 | 5C | 6 | 7 | 0.7 | 1.8 | 1.24 | 16.0 | 450 | 56 |
| 20 | 7614-05C01000-U0BK8-00-02 | 5C | 10 | 7 | 0.7 | 1.8 | 1.24 | 18.5 | 675 | 66 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
NON-COMPACTED CIRCULAR CONDUCTOR:



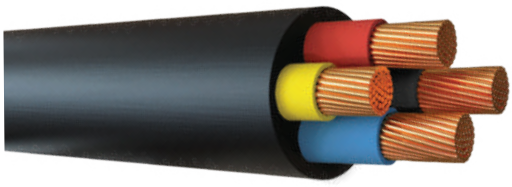
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-0A | 2C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 9.8 | 110 | 32 |
| 2 | 7614-02C00250-U0BK8-0A | 2C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 10.6 | 135 | 35 |
| 3 | 7614-02C00400-U0BK8-0A | 2C | 4 | 7 | 0.7 | 1.8 | 1.24 | 11.6 | 175 | 39 |
| 4 | 7614-02C00600-U0BK8-0A | 2C | 6 | 7 | 0.7 | 1.8 | 1.24 | 12.8 | 230 | 43 |
| 5 | 7614-02C01000-U0BK8-0A | 2C | 10 | 7 | 0.7 | 1.8 | 1.24 | 14.7 | 325 | 51 |
| 6 | 7614-03C00150-U0BK8-0A | 3C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 10.3 | 140 | 34 |
| 7 | 7614-03C00250-U0BK8-0A | 3C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 11.2 | 175 | 37 |
| 8 | 7614-03C00400-U0BK8-0A | 3C | 4 | 7 | 0.7 | 1.8 | 1.24 | 12.3 | 230 | 42 |
| 9 | 7614-03C00600-U0BK8-0A | 3C | 6 | 7 | 0.7 | 1.8 | 1.24 | 13.6 | 300 | 46 |
| 10 | 7614-03C01000-U0BK8-0A | 3C | 10 | 7 | 0.7 | 1.8 | 1.24 | 15.6 | 440 | 55 |
| 11 | 7614-04C00150-U0BK8-0A | 4C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.0 | 165 | 36 |
| 12 | 7614-04C00250-U0BK8-0A | 4C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 12.1 | 210 | 41 |
| 13 | 7614-04C00400-U0BK8-0A | 4C | 4 | 7 | 0.7 | 1.8 | 1.24 | 13.3 | 280 | 45 |
| 14 | 7614-04C00600-U0BK8-0A | 4C | 6 | 7 | 0.7 | 1.8 | 1.24 | 14.7 | 375 | 51 |
| 15 | 7614-04C01000-U0BK8-0A | 4C | 10 | 7 | 0.7 | 1.8 | 1.24 | 17.0 | 550 | 60 |
| 16 | 7614-05C00150-U0BK8-0A-02 | 5C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.9 | 190 | 40 |
| 17 | 7614-05C00250-U0BK8-0A-02 | 5C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 13.0 | 250 | 44 |
| 18 | 7614-05C00400-U0BK8-0A-02 | 5C | 4 | 7 | 0.7 | 1.8 | 1.24 | 14.4 | 330 | 50 |
| 19 | 7614-05C00600-U0BK8-0A-02 | 5C | 6 | 7 | 0.7 | 1.8 | 1.24 | 16.0 | 450 | 56 |
| 20 | 7614-05C01000-U0BK8-0A-02 | 5C | 10 | 7 | 0.7 | 1.8 | 1.24 | 18.5 | 675 | 66 |

**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:



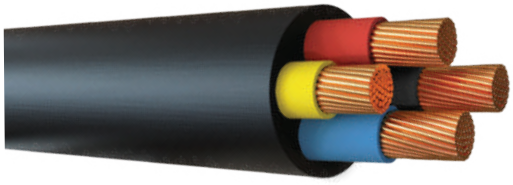
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-NI | 2C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 9.8 | 110 | 32 |
| 2 | 7614-02C00250-U0BK8-NI | 2C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 10.6 | 135 | 35 |
| 3 | 7614-02C00400-U0BK8-NI | 2C | 4 | 7 | 0.7 | 1.8 | 1.24 | 11.6 | 175 | 39 |
| 4 | 7614-02C00600-U0BK8-NI | 2C | 6 | 7 | 0.7 | 1.8 | 1.24 | 12.8 | 230 | 43 |
| 5 | 7614-02C01000-U0BK8-NI | 2C | 10 | 7 | 0.7 | 1.8 | 1.24 | 14.7 | 325 | 51 |
| 6 | 7614-03C00150-U0BK8-NI | 3C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 10.3 | 140 | 34 |
| 7 | 7614-03C00250-U0BK8-NI | 3C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 11.2 | 175 | 37 |
| 8 | 7614-03C00400-U0BK8-NI | 3C | 4 | 7 | 0.7 | 1.8 | 1.24 | 12.3 | 230 | 42 |
| 9 | 7614-03C00600-U0BK8-NI | 3C | 6 | 7 | 0.7 | 1.8 | 1.24 | 13.6 | 300 | 46 |
| 10 | 7614-03C01000-U0BK8-NI | 3C | 10 | 7 | 0.7 | 1.8 | 1.24 | 15.6 | 440 | 55 |
| 11 | 7614-04C00150-U0BK8-NI | 4C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.0 | 165 | 36 |
| 12 | 7614-04C00250-U0BK8-NI | 4C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 12.1 | 210 | 41 |
| 13 | 7614-04C00400-U0BK8-NI | 4C | 4 | 7 | 0.7 | 1.8 | 1.24 | 13.3 | 280 | 45 |
| 14 | 7614-04C00600-U0BK8-NI | 4C | 6 | 7 | 0.7 | 1.8 | 1.24 | 14.7 | 375 | 51 |
| 15 | 7614-04C01000-U0BK8-NI | 4C | 10 | 7 | 0.7 | 1.8 | 1.24 | 17.0 | 550 | 60 |
| 16 | 7614-05C00150-U0BK8-NI-02 | 5C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.9 | 190 | 40 |
| 17 | 7614-05C00250-U0BK8-NI-02 | 5C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 13.0 | 250 | 44 |
| 18 | 7614-05C00400-U0BK8-NI-02 | 5C | 4 | 7 | 0.7 | 1.8 | 1.24 | 14.4 | 330 | 50 |
| 19 | 7614-05C00600-U0BK8-NI-02 | 5C | 6 | 7 | 0.7 | 1.8 | 1.24 | 16.0 | 450 | 56 |
| 20 | 7614-05C01000-U0BK8-NI-02 | 5C | 10 | 7 | 0.7 | 1.8 | 1.24 | 18.5 | 675 | 66 |

**TABLE: IEC 60332-3-24 (CAT C)**
COMPACTED CIRCULAR CONDUCTOR:



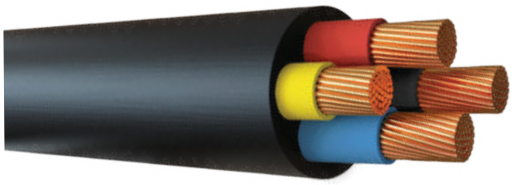
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76D4-02C01600-U0BK8-00 | 2C | 16 | 7 | 0.7 | 1.8 | 1.24 | 15.8 | 440 | 55 |
| 2 | 76D4-02C02500-U0BK8-00 | 2C | 25 | 7 | 0.9 | 1.8 | 1.24 | 19.2 | 640 | 69 |
| 3 | 76D4-02C03500-U0BK8-00 | 2C | 35 | 7 | 0.9 | 1.8 | 1.24 | 21.4 | 845 | 78 |
| 4 | 76D4-02C05000-U0BK8-00 | 2C | 50 | 19 | 1.0 | 1.8 | 1.24 | 24.5 | 1110 | 90 |
| 5 | 76D4-02C07000-U0BK8-00 | 2C | 70 | 19 | 1.1 | 1.8 | 1.24 | 27.9 | 1520 | 103 |
| 6 | 76D4-02C09500-U0BK8-00 | 2C | 95 | 19 | 1.1 | 1.9 | 1.32 | 31.4 | 2010 | 123 |
| 7 | 76D4-02C12000-U0BK8-00 | 2C | 120 | 19 | 1.2 | 2.0 | 1.40 | 34.9 | 2530 | 145 |
| 8 | 76D4-02C15000-U0BK8-00 | 2C | 150 | 19 | 1.4 | 2.2 | 1.56 | 39.1 | 3125 | 178 |
| 9 | 76D4-02C18500-U0BK8-00 | 2C | 185 | 37 | 1.6 | 2.3 | 1.64 | 43.3 | 3815 | 207 |
| 10 | 76D4-02C24000-U0BK8-00 | 2C | 240 | 37 | 1.7 | 2.5 | 1.80 | 48.6 | 4975 | 253 |
| 11 | 76D4-02C30000-U0BK8-00 | 2C | 300 | 37 | 1.8 | 2.6 | 1.88 | 53.5 | 6225 | 291 |
| 12 | 76D4-02C40000-U0BK8-00 | 2C | 400 | 61 | 2.0 | 2.9 | 2.12 | 61.2 | 7875 | 372 |
| 13 | 76D4-03C01600-U0BK8-00 | 3C | 16 | 7 | 0.7 | 1.8 | 1.24 | 17.0 | 600 | 60 |
| 14 | 76D4-03C02500-U0BK8-00 | 3C | 25 | 7 | 0.9 | 1.8 | 1.24 | 20.4 | 885 | 74 |
| 15 | 76D4-03C03500-U0BK8-00 | 3C | 35 | 7 | 0.9 | 1.8 | 1.24 | 22.8 | 1185 | 83 |
| 16 | 76D4-04C01600-U0BK8-00 | 4C | 16 | 7 | 0.7 | 1.8 | 1.24 | 18.6 | 770 | 66 |
| 17 | 76D4-05C01600-U0BK8-00-02 | 5C | 16 | 7 | 0.7 | 1.8 | 1.24 | 20.1 | 935 | 72 |
| 18 | 76D4-05C02500-U0BK8-00-02 | 5C | 25 | 7 | 0.9 | 1.8 | 1.24 | 24.6 | 1400 | 90 |
| 19 | 76D4-05C03500-U0BK8-00-02 | 5C | 35 | 7 | 0.9 | 1.8 | 1.24 | 27.5 | 1885 | 102 |
| 20 | 76D4-05C05000-U0BK8-00-02 | 5C | 50 | 19 | 1.0 | 1.9 | 1.32 | 31.9 | 2550 | 125 |
| 21 | 76D4-05C07000-U0BK8-00-02 | 5C | 70 | 19 | 1.1 | 2.1 | 1.48 | 37.0 | 3575 | 161 |
| 22 | 76D4-05C09500-U0BK8-00-02 | 5C | 95 | 19 | 1.1 | 2.2 | 1.56 | 41.6 | 4750 | 191 |
| 23 | 76D4-05C12000-U0BK8-00-02 | 5C | 120 | 19 | 1.2 | 2.4 | 1.72 | 46.4 | 6000 | 232 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
COMPACTED CIRCULAR CONDUCTOR:



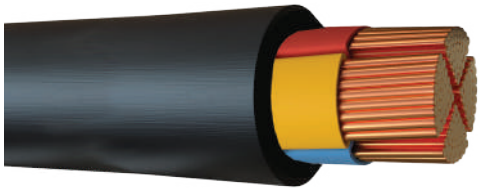
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76D4-02C01600-U0BK8-0A | 2C | 16 | 7 | 0.7 | 1.8 | 1.24 | 15.8 | 440 | 55 |
| 2 | 76D4-02C02500-U0BK8-0A | 2C | 25 | 7 | 0.9 | 1.8 | 1.24 | 19.2 | 640 | 69 |
| 3 | 76D4-02C03500-U0BK8-0A | 2C | 35 | 7 | 0.9 | 1.8 | 1.24 | 21.4 | 845 | 78 |
| 4 | 76D4-02C05000-U0BK8-0A | 2C | 50 | 19 | 1.0 | 1.8 | 1.24 | 24.5 | 1110 | 90 |
| 5 | 76D4-02C07000-U0BK8-0A | 2C | 70 | 19 | 1.1 | 1.8 | 1.24 | 27.9 | 1520 | 103 |
| 6 | 76D4-02C09500-U0BK8-0A | 2C | 95 | 19 | 1.1 | 1.9 | 1.32 | 31.4 | 2010 | 123 |
| 7 | 76D4-02C12000-U0BK8-0A | 2C | 120 | 19 | 1.2 | 2.0 | 1.40 | 34.9 | 2530 | 145 |
| 8 | 76D4-02C15000-U0BK8-0A | 2C | 150 | 19 | 1.4 | 2.2 | 1.56 | 39.1 | 3125 | 178 |
| 9 | 76D4-02C18500-U0BK8-0A | 2C | 185 | 37 | 1.6 | 2.3 | 1.64 | 43.3 | 3815 | 207 |
| 10 | 76D4-02C24000-U0BK8-0A | 2C | 240 | 37 | 1.7 | 2.5 | 1.80 | 48.6 | 4975 | 253 |
| 11 | 76D4-02C30000-U0BK8-0A | 2C | 300 | 37 | 1.8 | 2.6 | 1.88 | 53.5 | 6225 | 291 |
| 12 | 76D4-02C40000-U0BK8-0A | 2C | 400 | 61 | 2.0 | 2.9 | 2.12 | 61.2 | 7875 | 372 |
| 13 | 76D4-03C01600-U0BK8-0A | 3C | 16 | 7 | 0.7 | 1.8 | 1.24 | 17.0 | 600 | 60 |
| 14 | 76D4-03C02500-U0BK8-0A | 3C | 25 | 7 | 0.9 | 1.8 | 1.24 | 20.4 | 885 | 74 |
| 15 | 76D4-03C03500-U0BK8-0A | 3C | 35 | 7 | 0.9 | 1.8 | 1.24 | 22.8 | 1185 | 83 |
| 16 | 76D4-04C01600-U0BK8-0A | 4C | 16 | 7 | 0.7 | 1.8 | 1.24 | 18.6 | 770 | 66 |
| 17 | 76D4-05C01600-U0BK8-0A-02 | 5C | 16 | 7 | 0.7 | 1.8 | 1.24 | 20.1 | 935 | 72 |
| 18 | 76D4-05C02500-U0BK8-0A-02 | 5C | 25 | 7 | 0.9 | 1.8 | 1.24 | 24.6 | 1400 | 90 |
| 19 | 76D4-05C03500-U0BK8-0A-02 | 5C | 35 | 7 | 0.9 | 1.8 | 1.24 | 27.5 | 1885 | 102 |
| 20 | 76D4-05C05000-U0BK8-0A-02 | 5C | 50 | 19 | 1.0 | 1.9 | 1.32 | 31.9 | 2550 | 125 |
| 21 | 76D4-05C07000-U0BK8-0A-02 | 5C | 70 | 19 | 1.1 | 2.1 | 1.48 | 37.0 | 3575 | 161 |
| 22 | 76D4-05C09500-U0BK8-0A-02 | 5C | 95 | 19 | 1.1 | 2.2 | 1.56 | 41.6 | 4750 | 191 |
| 23 | 76D4-05C12000-U0BK8-0A-02 | 5C | 120 | 19 | 1.2 | 2.4 | 1.72 | 46.4 | 6000 | 232 |

**TABLE: IEC 60332-1-2**
COMPACTED CIRCULAR CONDUCTOR:



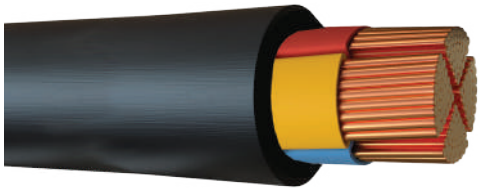
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76D4-02C01600-U0BK8-NI | 2C | 16 | 7 | 0.7 | 1.8 | 1.24 | 15.8 | 440 | 55 |
| 2 | 76D4-02C02500-U0BK8-NI | 2C | 25 | 7 | 0.9 | 1.8 | 1.24 | 19.2 | 640 | 69 |
| 3 | 76D4-02C03500-U0BK8-NI | 2C | 35 | 7 | 0.9 | 1.8 | 1.24 | 21.4 | 845 | 78 |
| 4 | 76D4-02C05000-U0BK8-NI | 2C | 50 | 19 | 1.0 | 1.8 | 1.24 | 24.5 | 1110 | 90 |
| 5 | 76D4-02C07000-U0BK8-NI | 2C | 70 | 19 | 1.1 | 1.8 | 1.24 | 27.9 | 1520 | 103 |
| 6 | 76D4-02C09500-U0BK8-NI | 2C | 95 | 19 | 1.1 | 1.9 | 1.32 | 31.4 | 2010 | 123 |
| 7 | 76D4-02C12000-U0BK8-NI | 2C | 120 | 19 | 1.2 | 2.0 | 1.40 | 34.9 | 2530 | 145 |
| 8 | 76D4-02C15000-U0BK8-NI | 2C | 150 | 19 | 1.4 | 2.2 | 1.56 | 39.1 | 3125 | 178 |
| 9 | 76D4-02C18500-U0BK8-NI | 2C | 185 | 37 | 1.6 | 2.3 | 1.64 | 43.3 | 3815 | 207 |
| 10 | 76D4-02C24000-U0BK8-NI | 2C | 240 | 37 | 1.7 | 2.5 | 1.80 | 48.6 | 4975 | 253 |
| 11 | 76D4-02C30000-U0BK8-NI | 2C | 300 | 37 | 1.8 | 2.6 | 1.88 | 53.5 | 6225 | 291 |
| 12 | 76D4-02C40000-U0BK8-NI | 2C | 400 | 61 | 2.0 | 2.9 | 2.12 | 61.2 | 7875 | 372 |
| 13 | 76D4-03C01600-U0BK8-NI | 3C | 16 | 7 | 0.7 | 1.8 | 1.24 | 17.0 | 600 | 60 |
| 14 | 76D4-03C02500-U0BK8-NI | 3C | 25 | 7 | 0.9 | 1.8 | 1.24 | 20.4 | 885 | 74 |
| 15 | 76D4-03C03500-U0BK8-NI | 3C | 35 | 7 | 0.9 | 1.8 | 1.24 | 22.8 | 1185 | 83 |
| 16 | 76D4-04C01600-U0BK8-NI | 4C | 16 | 7 | 0.7 | 1.8 | 1.24 | 18.6 | 770 | 66 |
| 17 | 76D4-05C01600-U0BK8-NI-02 | 5C | 16 | 7 | 0.7 | 1.8 | 1.24 | 20.1 | 935 | 72 |
| 18 | 76D4-05C02500-U0BK8-NI-02 | 5C | 25 | 7 | 0.9 | 1.8 | 1.24 | 24.6 | 1400 | 90 |
| 19 | 76D4-05C03500-U0BK8-NI-02 | 5C | 35 | 7 | 0.9 | 1.8 | 1.24 | 27.5 | 1885 | 102 |
| 20 | 76D4-05C05000-U0BK8-NI-02 | 5C | 50 | 19 | 1.0 | 1.9 | 1.32 | 31.9 | 2550 | 125 |
| 21 | 76D4-05C07000-U0BK8-NI-02 | 5C | 70 | 19 | 1.1 | 2.1 | 1.48 | 37.0 | 3575 | 161 |
| 22 | 76D4-05C09500-U0BK8-NI-02 | 5C | 95 | 19 | 1.1 | 2.2 | 1.56 | 41.6 | 4750 | 191 |
| 23 | 76D4-05C12000-U0BK8-NI-02 | 5C | 120 | 19 | 1.2 | 2.4 | 1.72 | 46.4 | 6000 | 232 |

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



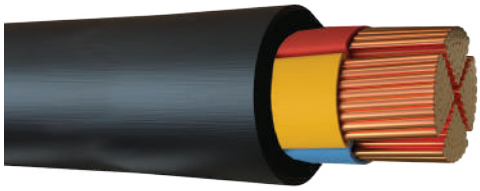
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-U0BK8-00 | 3C | 25 | 7 | 0.9 | 1.8 | 1.24 | 17.5 | 835 | 62 |
| 2 | 76F4-03C03500-U0BK8-00 | 3C | 35 | 7 | 0.9 | 1.8 | 1.24 | 19.4 | 1120 | 70 |
| 3 | 76F4-03C05000-U0BK8-00 | 3C | 50 | 19 | 1.0 | 1.8 | 1.24 | 22.2 | 1510 | 81 |
| 4 | 76F4-03C07000-U0BK8-00 | 3C | 70 | 19 | 1.1 | 1.9 | 1.32 | 25.5 | 2125 | 93 |
| 5 | 76F4-03C09500-U0BK8-00 | 3C | 95 | 19 | 1.1 | 2.0 | 1.40 | 28.6 | 2820 | 111 |
| 6 | 76F4-03C12000-U0BK8-00 | 3C | 120 | 19 | 1.2 | 2.1 | 1.48 | 31.7 | 3560 | 130 |
| 7 | 76F4-03C15000-U0BK8-00 | 3C | 150 | 19 | 1.4 | 2.3 | 1.64 | 35.6 | 4400 | 153 |
| 8 | 76F4-03C18500-U0BK8-00 | 3C | 185 | 37 | 1.6 | 2.4 | 1.72 | 39.4 | 5425 | 178 |
| 9 | 76F4-03C24000-U0BK8-00 | 3C | 240 | 37 | 1.7 | 2.6 | 1.88 | 44.1 | 7075 | 218 |
| 10 | 76F4-03C30000-U0BK8-00 | 3C | 300 | 37 | 1.8 | 2.8 | 2.04 | 48.7 | 8975 | 251 |
| 11 | 76F4-03C40000-U0BK8-00 | 3C | 400 | 61 | 2.0 | 3.0 | 2.20 | 55.5 | 11320 | 310 |
| 12 | 76F4-04C02500-U0BK8-00 | 4C | 25 | 7 | 0.9 | 1.8 | 1.24 | 20.4 | 1100 | 74 |
| 13 | 76F4-04C03500-U0BK8-00 | 4C | 35 | 7 | 0.9 | 1.8 | 1.24 | 22.8 | 1475 | 83 |
| 14 | 76F4-04C05000-U0BK8-00 | 4C | 50 | 19 | 1.0 | 1.9 | 1.32 | 26.5 | 2025 | 97 |
| 15 | 76F4-04C07000-U0BK8-00 | 4C | 70 | 19 | 1.1 | 2.0 | 1.40 | 30.5 | 2825 | 119 |
| 16 | 76F4-04C09500-U0BK8-00 | 4C | 95 | 19 | 1.1 | 2.1 | 1.48 | 34.2 | 3765 | 148 |
| 17 | 76F4-04C12000-U0BK8-00 | 4C | 120 | 19 | 1.2 | 2.3 | 1.64 | 38.2 | 4775 | 173 |
| 18 | 76F4-04C15000-U0BK8-00 | 4C | 150 | 19 | 1.4 | 2.4 | 1.72 | 42.7 | 5895 | 203 |
| 19 | 76F4-04C18500-U0BK8-00 | 4C | 185 | 37 | 1.6 | 2.6 | 1.88 | 47.5 | 7285 | 246 |
| 20 | 76F4-04C24000-U0BK8-00 | 4C | 240 | 37 | 1.7 | 2.8 | 2.04 | 53.2 | 9490 | 299 |
| 21 | 76F4-04C30000-U0BK8-00 | 4C | 300 | 37 | 1.8 | 3.0 | 2.20 | 58.8 | 11965 | 355 |
| 22 | 76F4-04C40000-U0BK8-00 | 4C | 400 | 61 | 2.0 | 3.3 | 2.44 | 67.3 | 15175 | 435 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-U0BK8-0A | 3C | 25 | 7 | 0.9 | 1.8 | 1.24 | 17.5 | 835 | 62 |
| 2 | 76F4-03C03500-U0BK8-0A | 3C | 35 | 7 | 0.9 | 1.8 | 1.24 | 19.4 | 1120 | 70 |
| 3 | 76F4-03C05000-U0BK8-0A | 3C | 50 | 19 | 1.0 | 1.8 | 1.24 | 22.2 | 1510 | 81 |
| 4 | 76F4-03C07000-U0BK8-0A | 3C | 70 | 19 | 1.1 | 1.9 | 1.32 | 25.5 | 2125 | 93 |
| 5 | 76F4-03C09500-U0BK8-0A | 3C | 95 | 19 | 1.1 | 2.0 | 1.40 | 28.6 | 2820 | 111 |
| 6 | 76F4-03C12000-U0BK8-0A | 3C | 120 | 19 | 1.2 | 2.1 | 1.48 | 31.7 | 3560 | 130 |
| 7 | 76F4-03C15000-U0BK8-0A | 3C | 150 | 19 | 1.4 | 2.3 | 1.64 | 35.6 | 4400 | 153 |
| 8 | 76F4-03C18500-U0BK8-0A | 3C | 185 | 37 | 1.6 | 2.4 | 1.72 | 39.4 | 5425 | 178 |
| 9 | 76F4-03C24000-U0BK8-0A | 3C | 240 | 37 | 1.7 | 2.6 | 1.88 | 44.1 | 7075 | 218 |
| 10 | 76F4-03C30000-U0BK8-0A | 3C | 300 | 37 | 1.8 | 2.8 | 2.04 | 48.7 | 8975 | 251 |
| 11 | 76F4-03C40000-U0BK8-0A | 3C | 400 | 61 | 2.0 | 3.0 | 2.20 | 55.5 | 11320 | 310 |
| 12 | 76F4-04C02500-U0BK8-0A | 4C | 25 | 7 | 0.9 | 1.8 | 1.24 | 20.4 | 1100 | 74 |
| 13 | 76F4-04C03500-U0BK8-0A | 4C | 35 | 7 | 0.9 | 1.8 | 1.24 | 22.8 | 1475 | 83 |
| 14 | 76F4-04C05000-U0BK8-0A | 4C | 50 | 19 | 1.0 | 1.9 | 1.32 | 26.5 | 2025 | 97 |
| 15 | 76F4-04C07000-U0BK8-0A | 4C | 70 | 19 | 1.1 | 2.0 | 1.40 | 30.5 | 2825 | 119 |
| 16 | 76F4-04C09500-U0BK8-0A | 4C | 95 | 19 | 1.1 | 2.1 | 1.48 | 34.2 | 3765 | 148 |
| 17 | 76F4-04C12000-U0BK8-0A | 4C | 120 | 19 | 1.2 | 2.3 | 1.64 | 38.2 | 4775 | 173 |
| 18 | 76F4-04C15000-U0BK8-0A | 4C | 150 | 19 | 1.4 | 2.4 | 1.72 | 42.7 | 5895 | 203 |
| 19 | 76F4-04C18500-U0BK8-0A | 4C | 185 | 37 | 1.6 | 2.6 | 1.88 | 47.5 | 7285 | 246 |
| 20 | 76F4-04C24000-U0BK8-0A | 4C | 240 | 37 | 1.7 | 2.8 | 2.04 | 53.2 | 9490 | 299 |
| 21 | 76F4-04C30000-U0BK8-0A | 4C | 300 | 37 | 1.8 | 3.0 | 2.20 | 58.8 | 11965 | 355 |
| 22 | 76F4-04C40000-U0BK8-0A | 4C | 400 | 61 | 2.0 | 3.3 | 2.44 | 67.3 | 15175 | 435 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-U0BK8-NI | 3C | 25 | 7 | 0.9 | 1.8 | 1.24 | 17.5 | 835 | 62 |
| 2 | 76F4-03C03500-U0BK8-NI | 3C | 35 | 7 | 0.9 | 1.8 | 1.24 | 19.4 | 1120 | 70 |
| 3 | 76F4-03C05000-U0BK8-NI | 3C | 50 | 19 | 1.0 | 1.8 | 1.24 | 22.2 | 1510 | 81 |
| 4 | 76F4-03C07000-U0BK8-NI | 3C | 70 | 19 | 1.1 | 1.9 | 1.32 | 25.5 | 2125 | 93 |
| 5 | 76F4-03C09500-U0BK8-NI | 3C | 95 | 19 | 1.1 | 2.0 | 1.40 | 28.6 | 2820 | 111 |
| 6 | 76F4-03C12000-U0BK8-NI | 3C | 120 | 19 | 1.2 | 2.1 | 1.48 | 31.7 | 3560 | 130 |
| 7 | 76F4-03C15000-U0BK8-NI | 3C | 150 | 19 | 1.4 | 2.3 | 1.64 | 35.6 | 4400 | 153 |
| 8 | 76F4-03C18500-U0BK8-NI | 3C | 185 | 37 | 1.6 | 2.4 | 1.72 | 39.4 | 5425 | 178 |
| 9 | 76F4-03C24000-U0BK8-NI | 3C | 240 | 37 | 1.7 | 2.6 | 1.88 | 44.1 | 7075 | 218 |
| 10 | 76F4-03C30000-U0BK8-NI | 3C | 300 | 37 | 1.8 | 2.8 | 2.04 | 48.7 | 8975 | 251 |
| 11 | 76F4-03C40000-U0BK8-NI | 3C | 400 | 61 | 2.0 | 3.0 | 2.20 | 55.5 | 11320 | 310 |
| 12 | 76F4-04C02500-U0BK8-NI | 4C | 25 | 7 | 0.9 | 1.8 | 1.24 | 20.4 | 1100 | 74 |
| 13 | 76F4-04C03500-U0BK8-NI | 4C | 35 | 7 | 0.9 | 1.8 | 1.24 | 22.8 | 1475 | 83 |
| 14 | 76F4-04C05000-U0BK8-NI | 4C | 50 | 19 | 1.0 | 1.9 | 1.32 | 26.5 | 2025 | 97 |
| 15 | 76F4-04C07000-U0BK8-NI | 4C | 70 | 19 | 1.1 | 2.0 | 1.40 | 30.5 | 2825 | 119 |
| 16 | 76F4-04C09500-U0BK8-NI | 4C | 95 | 19 | 1.1 | 2.1 | 1.48 | 34.2 | 3765 | 148 |
| 17 | 76F4-04C12000-U0BK8-NI | 4C | 120 | 19 | 1.2 | 2.3 | 1.64 | 38.2 | 4775 | 173 |
| 18 | 76F4-04C15000-U0BK8-NI | 4C | 150 | 19 | 1.4 | 2.4 | 1.72 | 42.7 | 5895 | 203 |
| 19 | 76F4-04C18500-U0BK8-NI | 4C | 185 | 37 | 1.6 | 2.6 | 1.88 | 47.5 | 7285 | 246 |
| 20 | 76F4-04C24000-U0BK8-NI | 4C | 240 | 37 | 1.7 | 2.8 | 2.04 | 53.2 | 9490 | 299 |
| 21 | 76F4-04C30000-U0BK8-NI | 4C | 300 | 37 | 1.8 | 3.0 | 2.20 | 58.8 | 11965 | 355 |
| 22 | 76F4-04C40000-U0BK8-NI | 4C | 400 | 61 | 2.0 | 3.3 | 2.44 | 67.3 | 15175 | 435 |

# CONTROL, MULTI CORE, UNARMOURED CABLE

CU/XLPE/PVC

SPECIFICATION: IEC 60502-1


| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C & above: Black core with Number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
** Other sheath color available on request.
***Flame Retardant Property of cable will be as per requirement.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-00 | 2 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 9.8 | 110 | 32 |
| 2 | 7614-03C00150-U0BK8-00 | 3 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 10.3 | 140 | 34 |
| 3 | 7614-04C00150-U0BK8-00 | 4 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.0 | 165 | 36 |
| 4 | 7614-05C00150-U0BK8-00 | 5 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.9 | 190 | 40 |
| 5 | 7614-06C00150-U0BK8-00 | 6 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 12.7 | 222 | 43 |
| 6 | 7614-07C00150-U0BK8-00 | 7 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 12.7 | 238 | 43 |
| 7 | 7614-08C00150-U0BK8-00 | 8 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 14.1 | 272 | 49 |
| 8 | 7614-10C00150-U0BK8-00 | 10 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 15.7 | 325 | 55 |
| 9 | 7614-12C00150-U0BK8-00 | 12 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 16.2 | 382 | 57 |
| 10 | 7614-14C00150-U0BK8-00 | 14 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 16.9 | 415 | 60 |
| 11 | 7614-15C00150-U0BK8-00 | 15 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 17.8 | 444 | 63 |
| 12 | 7614-16C00150-U0BK8-00 | 16 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 17.8 | 463 | 63 |
| 13 | 7614-18C00150-U0BK8-00 | 18 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 18.7 | 514 | 67 |
| 14 | 7614-19C00150-U0BK8-00 | 19 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 18.7 | 530 | 67 |
| 15 | 7614-20C00150-U0BK8-00 | 20 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 19.7 | 559 | 71 |
| 16 | 7614-22C00150-U0BK8-00 | 22 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 20.7 | 615 | 75 |
| 17 | 7614-24C00150-U0BK8-00 | 24 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 655 | 79 |
| 18 | 7614-25C00150-U0BK8-00 | 25 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 675 | 79 |
| 19 | 7614-26C00150-U0BK8-00 | 26 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 696 | 79 |
| 20 | 7614-30C00150-U0BK8-00 | 30 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 22.9 | 783 | 83 |
| 21 | 7614-32C00150-U0BK8-00 | 32 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 23.8 | 837 | 87 |
| 22 | 7614-35C00150-U0BK8-00 | 35 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 24.7 | 903 | 91 |
| 23 | 7614-36C00150-U0BK8-00 | 36 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 24.7 | 918 | 91 |
| 24 | 7614-40C00150-U0BK8-00 | 40 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 25.7 | 1008 | 95 |
| 25 | 7614-50C00150-U0BK8-00 | 50 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 28.7 | 1225 | 106 |
| 26 | 7614-61C00150-U0BK8-00 | 61 | 1.5 | 7 | 0.7 | 1.9 | 1.32 | 30.9 | 1476 | 121 |

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 27 | 7614-02C00250-U0BK8-00 | 2 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 10.6 | 135 | 35 |
| 28 | 7614-03C00250-U0BK8-00 | 3 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 11.2 | 175 | 37 |
| 29 | 7614-04C00250-U0BK8-00 | 4 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 12.1 | 210 | 41 |
| 30 | 7614-05C00250-U0BK8-00 | 5 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 13.0 | 250 | 44 |
| 31 | 7614-06C00250-U0BK8-00 | 6 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 14.0 | 292 | 48 |
| 32 | 7614-07C00250-U0BK8-00 | 7 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 14.0 | 317 | 48 |
| 33 | 7614-08C00250-U0BK8-00 | 8 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 15.5 | 360 | 54 |
| 34 | 7614-10C00250-U0BK8-00 | 10 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 17.4 | 436 | 62 |
| 35 | 7614-12C00250-U0BK8-00 | 12 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 17.9 | 510 | 64 |
| 36 | 7614-14C00250-U0BK8-00 | 14 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 18.8 | 578 | 67 |
| 37 | 7614-15C00250-U0BK8-00 | 15 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 19.8 | 605 | 71 |
| 38 | 7614-16C00250-U0BK8-00 | 16 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 19.8 | 634 | 71 |
| 39 | 7614-18C00250-U0BK8-00 | 18 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 20.8 | 704 | 75 |
| 40 | 7614-19C00250-U0BK8-00 | 19 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 20.8 | 729 | 75 |
| 41 | 7614-20C00250-U0BK8-00 | 20 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 21.9 | 767 | 80 |
| 42 | 7614-22C00250-U0BK8-00 | 22 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 23.1 | 838 | 84 |
| 43 | 7614-24C00250-U0BK8-00 | 24 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 905 | 89 |
| 44 | 7614-25C00250-U0BK8-00 | 25 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 935 | 89 |
| 45 | 7614-26C00250-U0BK8-00 | 26 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 965 | 89 |
| 46 | 7614-30C00250-U0BK8-00 | 30 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 25.6 | 1092 | 94 |
| 47 | 7614-32C00250-U0BK8-00 | 32 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 26.6 | 1159 | 98 |
| 48 | 7614-35C00250-U0BK8-00 | 35 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 27.6 | 1253 | 102 |
| 49 | 7614-36C00250-U0BK8-00 | 36 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 27.6 | 1284 | 102 |
| 50 | 7614-40C00250-U0BK8-00 | 40 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 28.7 | 1405 | 106 |
| 51 | 7614-50C00250-U0BK8-00 | 50 | 2.5 | 7 | 0.7 | 1.9 | 1.32 | 32.4 | 1742 | 121 |
| 52 | 7614-61C00250-U0BK8-00 | 61 | 2.5 | 7 | 0.7 | 2.0 | 1.40 | 34.8 | 2100 | 131 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-0A | 2 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 9.8 | 110 | 32 |
| 2 | 7614-03C00150-U0BK8-0A | 3 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 10.3 | 140 | 34 |
| 3 | 7614-04C00150-U0BK8-0A | 4 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.0 | 165 | 36 |
| 4 | 7614-05C00150-U0BK8-0A | 5 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.9 | 190 | 40 |
| 5 | 7614-06C00150-U0BK8-0A | 6 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 12.7 | 222 | 43 |
| 6 | 7614-07C00150-U0BK8-0A | 7 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 12.7 | 238 | 43 |
| 7 | 7614-08C00150-U0BK8-0A | 8 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 14.1 | 272 | 49 |
| 8 | 7614-10C00150-U0BK8-0A | 10 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 15.7 | 325 | 55 |
| 9 | 7614-12C00150-U0BK8-0A | 12 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 16.2 | 382 | 57 |
| 10 | 7614-14C00150-U0BK8-0A | 14 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 16.9 | 415 | 60 |
| 11 | 7614-15C00150-U0BK8-0A | 15 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 17.8 | 444 | 63 |
| 12 | 7614-16C00150-U0BK8-0A | 16 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 17.8 | 463 | 63 |
| 13 | 7614-18C00150-U0BK8-0A | 18 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 18.7 | 514 | 67 |
| 14 | 7614-19C00150-U0BK8-0A | 19 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 18.7 | 530 | 67 |
| 15 | 7614-20C00150-U0BK8-0A | 20 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 19.7 | 559 | 71 |
| 16 | 7614-22C00150-U0BK8-0A | 22 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 20.7 | 615 | 75 |
| 17 | 7614-24C00150-U0BK8-0A | 24 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 655 | 79 |
| 18 | 7614-25C00150-U0BK8-0A | 25 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 675 | 79 |
| 19 | 7614-26C00150-U0BK8-0A | 26 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 696 | 79 |
| 20 | 7614-30C00150-U0BK8-0A | 30 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 22.9 | 783 | 83 |
| 21 | 7614-32C00150-U0BK8-0A | 32 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 23.8 | 837 | 87 |
| 22 | 7614-35C00150-U0BK8-0A | 35 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 24.7 | 903 | 91 |
| 23 | 7614-36C00150-U0BK8-0A | 36 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 24.7 | 918 | 91 |
| 24 | 7614-40C00150-U0BK8-0A | 40 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 25.7 | 1008 | 95 |
| 25 | 7614-50C00150-U0BK8-0A | 50 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 28.7 | 1225 | 106 |
| 26 | 7614-61C00150-U0BK8-0A | 61 | 1.5 | 7 | 0.7 | 1.9 | 1.32 | 30.9 | 1476 | 121 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 27 | 7614-02C00250-U0BK8-0A | 2 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 10.6 | 135 | 35 |
| 28 | 7614-03C00250-U0BK8-0A | 3 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 11.2 | 175 | 37 |
| 29 | 7614-04C00250-U0BK8-0A | 4 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 12.1 | 210 | 41 |
| 30 | 7614-05C00250-U0BK8-0A | 5 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 13.0 | 250 | 44 |
| 31 | 7614-06C00250-U0BK8-0A | 6 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 14.0 | 292 | 48 |
| 32 | 7614-07C00250-U0BK8-0A | 7 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 14.0 | 317 | 48 |
| 33 | 7614-08C00250-U0BK8-0A | 8 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 15.5 | 360 | 54 |
| 34 | 7614-10C00250-U0BK8-0A | 10 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 17.4 | 436 | 62 |
| 35 | 7614-12C00250-U0BK8-0A | 12 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 17.9 | 510 | 64 |
| 36 | 7614-14C00250-U0BK8-0A | 14 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 18.8 | 578 | 67 |
| 37 | 7614-15C00250-U0BK8-0A | 15 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 19.8 | 605 | 71 |
| 38 | 7614-16C00250-U0BK8-0A | 16 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 19.8 | 634 | 71 |
| 39 | 7614-18C00250-U0BK8-0A | 18 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 20.8 | 704 | 75 |
| 40 | 7614-19C00250-U0BK8-0A | 19 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 20.8 | 729 | 75 |
| 41 | 7614-20C00250-U0BK8-0A | 20 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 21.9 | 767 | 80 |
| 42 | 7614-22C00250-U0BK8-0A | 22 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 23.1 | 838 | 84 |
| 43 | 7614-24C00250-U0BK8-0A | 24 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 905 | 89 |
| 44 | 7614-25C00250-U0BK8-0A | 25 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 935 | 89 |
| 45 | 7614-26C00250-U0BK8-0A | 26 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 965 | 89 |
| 46 | 7614-30C00250-U0BK8-0A | 30 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 25.6 | 1092 | 94 |
| 47 | 7614-32C00250-U0BK8-0A | 32 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 26.6 | 1159 | 98 |
| 48 | 7614-35C00250-U0BK8-0A | 35 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 27.6 | 1253 | 102 |
| 49 | 7614-36C00250-U0BK8-0A | 36 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 27.6 | 1284 | 102 |
| 50 | 7614-40C00250-U0BK8-0A | 40 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 28.7 | 1405 | 106 |
| 51 | 7614-50C00250-U0BK8-0A | 50 | 2.5 | 7 | 0.7 | 1.9 | 1.32 | 32.4 | 1742 | 121 |
| 52 | 7614-61C00250-U0BK8-0A | 61 | 2.5 | 7 | 0.7 | 2.0 | 1.40 | 34.8 | 2100 | 131 |

**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-NI | 2 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 9.8 | 110 | 32 |
| 2 | 7614-03C00150-U0BK8-NI | 3 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 10.3 | 140 | 34 |
| 3 | 7614-04C00150-U0BK8-NI | 4 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.0 | 165 | 36 |
| 4 | 7614-05C00150-U0BK8-NI | 5 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.9 | 190 | 40 |
| 5 | 7614-06C00150-U0BK8-NI | 6 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 12.7 | 222 | 43 |
| 6 | 7614-07C00150-U0BK8-NI | 7 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 12.7 | 238 | 43 |
| 7 | 7614-08C00150-U0BK8-NI | 8 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 14.1 | 272 | 49 |
| 8 | 7614-10C00150-U0BK8-NI | 10 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 15.7 | 325 | 55 |
| 9 | 7614-12C00150-U0BK8-NI | 12 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 16.2 | 382 | 57 |
| 10 | 7614-14C00150-U0BK8-NI | 14 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 16.9 | 415 | 60 |
| 11 | 7614-15C00150-U0BK8-NI | 15 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 17.8 | 444 | 63 |
| 12 | 7614-16C00150-U0BK8-NI | 16 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 17.8 | 463 | 63 |
| 13 | 7614-18C00150-U0BK8-NI | 18 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 18.7 | 514 | 67 |
| 14 | 7614-19C00150-U0BK8-NI | 19 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 18.7 | 530 | 67 |
| 15 | 7614-20C00150-U0BK8-NI | 20 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 19.7 | 559 | 71 |
| 16 | 7614-22C00150-U0BK8-NI | 22 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 20.7 | 615 | 75 |
| 17 | 7614-24C00150-U0BK8-NI | 24 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 655 | 79 |
| 18 | 7614-25C00150-U0BK8-NI | 25 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 675 | 79 |
| 19 | 7614-26C00150-U0BK8-NI | 26 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 696 | 79 |
| 20 | 7614-30C00150-U0BK8-NI | 30 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 22.9 | 783 | 83 |
| 21 | 7614-32C00150-U0BK8-NI | 32 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 23.8 | 837 | 87 |
| 22 | 7614-35C00150-U0BK8-NI | 35 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 24.7 | 903 | 91 |
| 23 | 7614-36C00150-U0BK8-NI | 36 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 24.7 | 918 | 91 |
| 24 | 7614-40C00150-U0BK8-NI | 40 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 25.7 | 1008 | 95 |
| 25 | 7614-50C00150-U0BK8-NI | 50 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 28.7 | 1225 | 106 |
| 26 | 7614-61C00150-U0BK8-NI | 61 | 1.5 | 7 | 0.7 | 1.9 | 1.32 | 30.9 | 1476 | 121 |

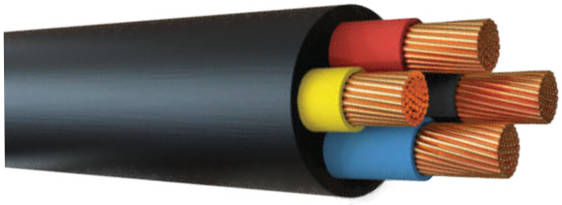
**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 27 | 7614-02C00250-U0BK8-NI | 2 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 10.6 | 135 | 35 |
| 28 | 7614-03C00250-U0BK8-NI | 3 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 11.2 | 175 | 37 |
| 29 | 7614-04C00250-U0BK8-NI | 4 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 12.1 | 210 | 41 |
| 30 | 7614-05C00250-U0BK8-NI | 5 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 13.0 | 250 | 44 |
| 31 | 7614-06C00250-U0BK8-NI | 6 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 14.0 | 292 | 48 |
| 32 | 7614-07C00250-U0BK8-NI | 7 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 14.0 | 317 | 48 |
| 33 | 7614-08C00250-U0BK8-NI | 8 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 15.5 | 360 | 54 |
| 34 | 7614-10C00250-U0BK8-NI | 10 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 17.4 | 436 | 62 |
| 35 | 7614-12C00250-U0BK8-NI | 12 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 17.9 | 510 | 64 |
| 36 | 7614-14C00250-U0BK8-NI | 14 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 18.8 | 578 | 67 |
| 37 | 7614-15C00250-U0BK8-NI | 15 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 19.8 | 605 | 71 |
| 38 | 7614-16C00250-U0BK8-NI | 16 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 19.8 | 634 | 71 |
| 39 | 7614-18C00250-U0BK8-NI | 18 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 20.8 | 704 | 75 |
| 40 | 7614-19C00250-U0BK8-NI | 19 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 20.8 | 729 | 75 |
| 41 | 7614-20C00250-U0BK8-NI | 20 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 21.9 | 767 | 80 |
| 42 | 7614-22C00250-U0BK8-NI | 22 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 23.1 | 838 | 84 |
| 43 | 7614-24C00250-U0BK8-NI | 24 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 905 | 89 |
| 44 | 7614-25C00250-U0BK8-NI | 25 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 935 | 89 |
| 45 | 7614-26C00250-U0BK8-NI | 26 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 965 | 89 |
| 46 | 7614-30C00250-U0BK8-NI | 30 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 25.6 | 1092 | 94 |
| 47 | 7614-32C00250-U0BK8-NI | 32 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 26.6 | 1159 | 98 |
| 48 | 7614-35C00250-U0BK8-NI | 35 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 27.6 | 1253 | 102 |
| 49 | 7614-36C00250-U0BK8-NI | 36 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 27.6 | 1284 | 102 |
| 50 | 7614-40C00250-U0BK8-NI | 40 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 28.7 | 1405 | 106 |
| 51 | 7614-50C00250-U0BK8-NI | 50 | 2.5 | 7 | 0.7 | 1.9 | 1.32 | 32.4 | 1742 | 121 |
| 52 | 7614-61C00250-U0BK8-NI | 61 | 2.5 | 7 | 0.7 | 2.0 | 1.40 | 34.8 | 2100 | 131 |

# LV POWER, SINGLE/MULTI CORE, UNARMOURED CABLE

CU/XLPE/LSZH

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

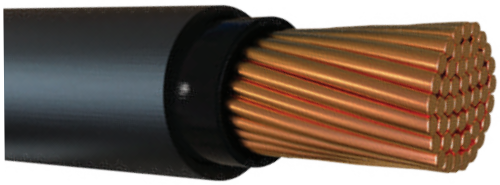
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 1C: Black<br>2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling** | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

*Other Insulation color available on request.
**Applicable only for Multi-Core cables.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

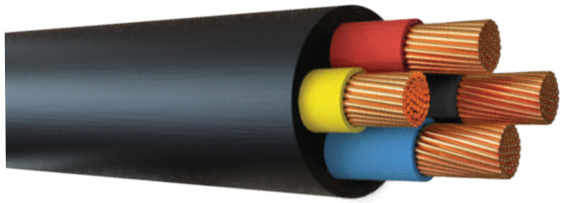
**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-01C00150-U0BK8-H0* | 1C | 1.5 | 7 | 0.7 | 1.4 | 0.92 | 5.8 | 50 | 14 |
| 2 | 7614-01C00250-U0BK8-H0* | 1C | 2.5 | 7 | 0.7 | 1.4 | 0.92 | 6.2 | 60 | 15 |
| 3 | 7614-01C00400-U0BK8-H0* | 1C | 4 | 7 | 0.7 | 1.4 | 0.92 | 6.7 | 75 | 16 |
| 4 | 7614-01C00600-U0BK8-H0* | 1C | 6 | 7 | 0.7 | 1.4 | 0.92 | 7.3 | 100 | 18 |
| 5 | 7614-01C01000-U0BK8-H0* | 1C | 10 | 7 | 0.7 | 1.4 | 0.92 | 8.3 | 150 | 21 |
| 6 | 76D4-01C01600-U0BK8-H0 | 1C | 16 | 7 | 0.7 | 1.4 | 0.92 | 8.9 | 205 | 23 |
| 7 | 76D4-01C02500-U0BK8-H0 | 1C | 25 | 7 | 0.9 | 1.4 | 0.92 | 10.5 | 300 | 28 |
| 8 | 76D4-01C03500-U0BK8-H0 | 1C | 35 | 7 | 0.9 | 1.4 | 0.92 | 11.6 | 400 | 31 |
| 9 | 76D4-01C05000-U0BK8-H0 | 1C | 50 | 19 | 1.0 | 1.4 | 0.92 | 13.1 | 525 | 36 |
| 10 | 76D4-01C07000-U0BK8-H0 | 1C | 70 | 19 | 1.1 | 1.4 | 0.92 | 14.9 | 725 | 42 |
| 11 | 76D4-01C09500-U0BK8-H0 | 1C | 95 | 19 | 1.1 | 1.5 | 1.00 | 16.7 | 970 | 47 |
| 12 | 76D4-01C12000-U0BK8-H0 | 1C | 120 | 19 | 1.2 | 1.5 | 1.00 | 18.3 | 1210 | 55 |
| 13 | 76D4-01C15000-U0BK8-H0 | 1C | 150 | 19 | 1.4 | 1.6 | 1.08 | 20.5 | 1500 | 66 |
| 14 | 76D4-01C18500-U0BK8-H0 | 1C | 185 | 37 | 1.6 | 1.6 | 1.08 | 22.7 | 1840 | 73 |
| 15 | 76D4-01C24000-U0BK8-H0 | 1C | 240 | 37 | 1.7 | 1.7 | 1.16 | 25.1 | 2385 | 87 |
| 16 | 76D4-01C30000-U0BK8-H0 | 1C | 300 | 37 | 1.8 | 1.8 | 1.24 | 27.6 | 2965 | 102 |
| 17 | 76D4-01C40000-U0BK8-H0 | 1C | 400 | 61 | 2.0 | 1.9 | 1.32 | 31.4 | 3775 | 123 |
| 18 | 76D4-01C50000-U0BK8-H0 | 1C | 500 | 61 | 2.2 | 2.0 | 1.40 | 34.8 | 4795 | 144 |
| 19 | 76D4-01C63000-U0BK8-H0 | 1C | 630 | 61 | 2.4 | 2.2 | 1.56 | 39.1 | 6185 | 178 |
| 20 | 76D4-01C80000-U0BK8-H0 | 1C | 800 | 61 | 2.6 | 2.3 | 1.64 | 43.5 | 8085 | 208 |
| 21 | 76D4-1C100000-U0BK8-H0 | 1C | 1000 | 61 | 2.8 | 2.4 | 1.72 | 48.7 | 10120 | 244 |
| 22 | 7614-01C80000-U0BK8-H0* | 1C | 800 | 91 | 2.6 | 2.3 | 1.64 | 46.9 | 8145 | 226 |
| 23 | 7614-1C100000-U0BK8-H0* | 1C | 1000 | 91 | 2.8 | 2.4 | 1.72 | 52.0 | 10185 | 262 |

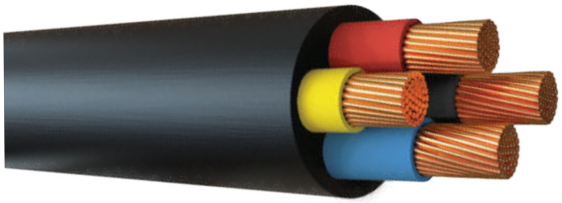
*Non-Compacted circular conductor, other compacted circular conductor

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:



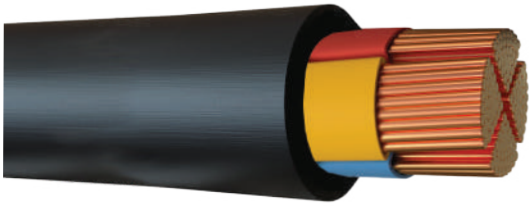
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-H0 | 2C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 9.8 | 110 | 32 |
| 2 | 7614-02C00250-U0BK8-H0 | 2C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 10.6 | 135 | 35 |
| 3 | 7614-02C00400-U0BK8-H0 | 2C | 4 | 7 | 0.7 | 1.8 | 1.24 | 11.6 | 175 | 39 |
| 4 | 7614-02C00600-U0BK8-H0 | 2C | 6 | 7 | 0.7 | 1.8 | 1.24 | 12.8 | 230 | 43 |
| 5 | 7614-02C01000-U0BK8-H0 | 2C | 10 | 7 | 0.7 | 1.8 | 1.24 | 14.7 | 325 | 51 |
| 6 | 7614-03C00150-U0BK8-H0 | 3C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 10.3 | 140 | 34 |
| 7 | 7614-03C00250-U0BK8-H0 | 3C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 11.2 | 175 | 37 |
| 8 | 7614-03C00400-U0BK8-H0 | 3C | 4 | 7 | 0.7 | 1.8 | 1.24 | 12.3 | 230 | 42 |
| 9 | 7614-03C00600-U0BK8-H0 | 3C | 6 | 7 | 0.7 | 1.8 | 1.24 | 13.6 | 300 | 46 |
| 10 | 7614-03C01000-U0BK8-H0 | 3C | 10 | 7 | 0.7 | 1.8 | 1.24 | 15.6 | 440 | 55 |
| 11 | 7614-04C00150-U0BK8-H0 | 4C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.0 | 160 | 36 |
| 12 | 7614-04C00250-U0BK8-H0 | 4C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 12.1 | 210 | 41 |
| 13 | 7614-04C00400-U0BK8-H0 | 4C | 4 | 7 | 0.7 | 1.8 | 1.24 | 13.3 | 280 | 45 |
| 14 | 7614-04C00600-U0BK8-H0 | 4C | 6 | 7 | 0.7 | 1.8 | 1.24 | 14.7 | 370 | 51 |
| 15 | 7614-04C01000-U0BK8-H0 | 4C | 10 | 7 | 0.7 | 1.8 | 1.24 | 17.0 | 550 | 60 |
| 16 | 7614-05C00150-U0BK8-H0-02 | 5C | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.9 | 190 | 40 |
| 17 | 7614-05C00250-U0BK8-H0-02 | 5C | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 13.0 | 245 | 44 |
| 18 | 7614-05C00400-U0BK8-H0-02 | 5C | 4 | 7 | 0.7 | 1.8 | 1.24 | 14.4 | 330 | 50 |
| 19 | 7614-05C00600-U0BK8-H0-02 | 5C | 6 | 7 | 0.7 | 1.8 | 1.24 | 16.0 | 450 | 56 |
| 20 | 7614-05C01000-U0BK8-H0-02 | 5C | 10 | 7 | 0.7 | 1.8 | 1.24 | 18.5 | 670 | 66 |

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76D4-02C01600-U0BK8-H0 | 2C | 16 | 7 | 0.7 | 1.8 | 1.24 | 15.8 | 430 | 55 |
| 2 | 76D4-02C02500-U0BK8-H0 | 2C | 25 | 7 | 0.9 | 1.8 | 1.24 | 19.2 | 635 | 69 |
| 3 | 76D4-02C03500-U0BK8-H0 | 2C | 35 | 7 | 0.9 | 1.8 | 1.24 | 21.4 | 840 | 78 |
| 4 | 76D4-02C05000-U0BK8-H0 | 2C | 50 | 19 | 1.0 | 1.8 | 1.24 | 24.5 | 1100 | 90 |
| 5 | 76D4-02C07000-U0BK8-H0 | 2C | 70 | 19 | 1.1 | 1.8 | 1.24 | 27.9 | 1510 | 103 |
| 6 | 76D4-02C09500-U0BK8-H0 | 2C | 95 | 19 | 1.1 | 1.9 | 1.32 | 31.4 | 2000 | 123 |
| 7 | 76D4-02C12000-U0BK8-H0 | 2C | 120 | 19 | 1.2 | 2.0 | 1.40 | 34.9 | 2520 | 145 |
| 8 | 76D4-02C15000-U0BK8-H0 | 2C | 150 | 19 | 1.4 | 2.2 | 1.56 | 39.1 | 3115 | 178 |
| 9 | 76D4-02C18500-U0BK8-H0 | 2C | 185 | 37 | 1.6 | 2.3 | 1.64 | 43.3 | 3810 | 207 |
| 10 | 76D4-02C24000-U0BK8-H0 | 2C | 240 | 37 | 1.7 | 2.5 | 1.80 | 48.6 | 4960 | 253 |
| 11 | 76D4-02C30000-U0BK8-H0 | 2C | 300 | 37 | 1.8 | 2.6 | 1.88 | 53.5 | 6210 | 291 |
| 12 | 76D4-02C40000-U0BK8-H0 | 2C | 400 | 61 | 2.0 | 2.9 | 2.12 | 61.2 | 7860 | 372 |
| 13 | 76D4-03C01600-U0BK8-H0 | 3C | 16 | 7 | 0.7 | 1.8 | 1.24 | 17.0 | 595 | 60 |
| 14 | 76D4-03C02500-U0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.8 | 1.24 | 20.4 | 880 | 74 |
| 15 | 76D4-03C03500-U0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.8 | 1.24 | 22.8 | 1180 | 83 |
| 16 | 76D4-04C01600-U0BK8-H0 | 4C | 16 | 7 | 0.7 | 1.8 | 1.24 | 18.6 | 765 | 66 |
| 17 | 76D4-05C01600-U0BK8-H0-02 | 5C | 16 | 7 | 0.7 | 1.8 | 1.24 | 20.1 | 930 | 72 |
| 18 | 76D4-05C02500-U0BK8-H0-02 | 5C | 25 | 7 | 0.9 | 1.8 | 1.24 | 24.6 | 1395 | 90 |
| 19 | 76D4-05C03500-U0BK8-H0-02 | 5C | 35 | 7 | 0.9 | 1.8 | 1.24 | 27.5 | 1880 | 102 |
| 20 | 76D4-05C05000-U0BK8-H0-02 | 5C | 50 | 19 | 1.0 | 1.9 | 1.32 | 31.9 | 2545 | 125 |
| 21 | 76D4-05C07000-U0BK8-H0-02 | 5C | 70 | 19 | 1.1 | 2.1 | 1.48 | 37.0 | 3560 | 161 |
| 22 | 76D4-05C09500-U0BK8-H0-02 | 5C | 95 | 19 | 1.1 | 2.2 | 1.56 | 41.6 | 4730 | 191 |
| 23 | 76D4-05C12000-U0BK8-H0-02 | 5C | 120 | 19 | 1.2 | 2.4 | 1.72 | 46.4 | 5990 | 232 |

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-U0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.8 | 1.24 | 17.5 | 830 | 62 |
| 2 | 76F4-03C03500-U0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.8 | 1.24 | 19.4 | 1115 | 70 |
| 3 | 76F4-03C05000-U0BK8-H0 | 3C | 50 | 19 | 1.0 | 1.8 | 1.24 | 22.2 | 1505 | 81 |
| 4 | 76F4-03C07000-U0BK8-H0 | 3C | 70 | 19 | 1.1 | 1.9 | 1.32 | 25.5 | 2115 | 93 |
| 5 | 76F4-03C09500-U0BK8-H0 | 3C | 95 | 19 | 1.1 | 2.0 | 1.40 | 28.6 | 2815 | 111 |
| 6 | 76F4-03C12000-U0BK8-H0 | 3C | 120 | 19 | 1.2 | 2.1 | 1.48 | 31.7 | 3550 | 130 |
| 7 | 76F4-03C15000-U0BK8-H0 | 3C | 150 | 19 | 1.4 | 2.3 | 1.64 | 35.6 | 4400 | 153 |
| 8 | 76F4-03C18500-U0BK8-H0 | 3C | 185 | 37 | 1.6 | 2.4 | 1.72 | 39.4 | 5415 | 178 |
| 9 | 76F4-03C24000-U0BK8-H0 | 3C | 240 | 37 | 1.7 | 2.6 | 1.88 | 44.1 | 7065 | 218 |
| 10 | 76F4-03C30000-U0BK8-H0 | 3C | 300 | 37 | 1.8 | 2.8 | 2.04 | 48.7 | 8955 | 251 |
| 11 | 76F4-03C40000-U0BK8-H0 | 3C | 400 | 61 | 2.0 | 3.0 | 2.20 | 55.5 | 11300 | 310 |
| 12 | 76F4-04C02500-U0BK8-H0 | 4C | 25 | 7 | 0.9 | 1.8 | 1.24 | 20.4 | 1095 | 74 |
| 13 | 76F4-04C03500-U0BK8-H0 | 4C | 35 | 7 | 0.9 | 1.8 | 1.24 | 22.8 | 1475 | 83 |
| 14 | 76F4-04C05000-U0BK8-H0 | 4C | 50 | 19 | 1.0 | 1.9 | 1.32 | 26.5 | 2015 | 97 |
| 15 | 76F4-04C07000-U0BK8-H0 | 4C | 70 | 19 | 1.1 | 2.0 | 1.40 | 30.5 | 2825 | 119 |
| 16 | 76F4-04C09500-U0BK8-H0 | 4C | 95 | 19 | 1.1 | 2.1 | 1.48 | 34.2 | 3755 | 148 |
| 17 | 76F4-04C12000-U0BK8-H0 | 4C | 120 | 19 | 1.2 | 2.3 | 1.64 | 38.2 | 4760 | 173 |
| 18 | 76F4-04C15000-U0BK8-H0 | 4C | 150 | 19 | 1.4 | 2.4 | 1.72 | 42.7 | 5875 | 203 |
| 19 | 76F4-04C18500-U0BK8-H0 | 4C | 185 | 37 | 1.6 | 2.6 | 1.88 | 47.5 | 7265 | 246 |
| 20 | 76F4-04C24000-U0BK8-H0 | 4C | 240 | 37 | 1.7 | 2.8 | 2.04 | 53.2 | 9470 | 299 |
| 21 | 76F4-04C30000-U0BK8-H0 | 4C | 300 | 37 | 1.8 | 3.0 | 2.20 | 58.8 | 11960 | 355 |
| 22 | 76F4-04C40000-U0BK8-H0 | 4C | 400 | 61 | 2.0 | 3.3 | 2.44 | 67.3 | 15135 | 435 |

# CONTROL, MULTI CORE, UNARMOURED CABLE

CU/XLPE/LSZH

SPECIFICATION: IEC 60502-1


| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/ corrosive gas emission during combustion are critical. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C & above: Black core with Number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-3 CAT C*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

*Other Insulation color available on request.
** Other sheath color available on request.
***Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-U0BK8-H0 | 2 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 9.8 | 110 | 32 |
| 2 | 7614-03C00150-U0BK8-H0 | 3 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 10.3 | 140 | 34 |
| 3 | 7614-04C00150-U0BK8-H0 | 4 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.0 | 160 | 36 |
| 4 | 7614-05C00150-U0BK8-H0 | 5 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 11.9 | 190 | 40 |
| 5 | 7614-06C00150-U0BK8-H0 | 6 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 12.7 | 220 | 43 |
| 6 | 7614-07C00150-U0BK8-H0 | 7 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 12.7 | 235 | 43 |
| 7 | 7614-08C00150-U0BK8-H0 | 8 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 14.1 | 269 | 49 |
| 8 | 7614-10C00150-U0BK8-H0 | 10 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 15.7 | 321 | 55 |
| 9 | 7614-12C00150-U0BK8-H0 | 12 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 16.2 | 378 | 57 |
| 10 | 7614-14C00150-U0BK8-H0 | 14 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 16.9 | 410 | 60 |
| 11 | 7614-15C00150-U0BK8-H0 | 15 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 17.8 | 439 | 63 |
| 12 | 7614-16C00150-U0BK8-H0 | 16 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 17.8 | 458 | 63 |
| 13 | 7614-18C00150-U0BK8-H0 | 18 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 18.7 | 509 | 67 |
| 14 | 7614-19C00150-U0BK8-H0 | 19 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 18.7 | 525 | 67 |
| 15 | 7614-20C00150-U0BK8-H0 | 20 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 19.7 | 554 | 71 |
| 16 | 7614-22C00150-U0BK8-H0 | 22 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 20.7 | 610 | 75 |
| 17 | 7614-24C00150-U0BK8-H0 | 24 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 650 | 79 |
| 18 | 7614-25C00150-U0BK8-H0 | 25 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 670 | 79 |
| 19 | 7614-26C00150-U0BK8-H0 | 26 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 21.7 | 690 | 79 |
| 20 | 7614-30C00150-U0BK8-H0 | 30 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 22.9 | 777 | 83 |
| 21 | 7614-32C00150-U0BK8-H0 | 32 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 23.8 | 831 | 87 |
| 22 | 7614-35C00150-U0BK8-H0 | 35 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 24.7 | 896 | 91 |
| 23 | 7614-36C00150-U0BK8-H0 | 36 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 24.7 | 912 | 91 |
| 24 | 7614-40C00150-U0BK8-H0 | 40 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 25.7 | 1002 | 95 |
| 25 | 7614-50C00150-U0BK8-H0 | 50 | 1.5 | 7 | 0.7 | 1.8 | 1.24 | 28.7 | 1218 | 106 |
| 26 | 7614-61C00150-U0BK8-H0 | 61 | 1.5 | 7 | 0.7 | 1.9 | 1.32 | 30.9 | 1468 | 121 |

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Nom | Min | | | |
| 27 | 7614-02C00250-U0BK8-H0 | 2 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 10.6 | 135 | 35 |
| 28 | 7614-03C00250-U0BK8-H0 | 3 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 11.2 | 175 | 37 |
| 29 | 7614-04C00250-U0BK8-H0 | 4 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 12.1 | 210 | 41 |
| 30 | 7614-05C00250-U0BK8-H0 | 5 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 13.0 | 245 | 44 |
| 31 | 7614-06C00250-U0BK8-H0 | 6 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 14.0 | 289 | 48 |
| 32 | 7614-07C00250-U0BK8-H0 | 7 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 14.0 | 314 | 48 |
| 33 | 7614-08C00250-U0BK8-H0 | 8 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 15.5 | 356 | 54 |
| 34 | 7614-10C00250-U0BK8-H0 | 10 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 17.4 | 431 | 62 |
| 35 | 7614-12C00250-U0BK8-H0 | 12 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 17.9 | 506 | 64 |
| 36 | 7614-14C00250-U0BK8-H0 | 14 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 18.8 | 573 | 67 |
| 37 | 7614-15C00250-U0BK8-H0 | 15 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 19.8 | 600 | 71 |
| 38 | 7614-16C00250-U0BK8-H0 | 16 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 19.8 | 628 | 71 |
| 39 | 7614-18C00250-U0BK8-H0 | 18 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 20.8 | 699 | 75 |
| 40 | 7614-19C00250-U0BK8-H0 | 19 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 20.8 | 724 | 75 |
| 41 | 7614-20C00250-U0BK8-H0 | 20 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 21.9 | 762 | 80 |
| 42 | 7614-22C00250-U0BK8-H0 | 22 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 23.1 | 832 | 84 |
| 43 | 7614-24C00250-U0BK8-H0 | 24 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 899 | 89 |
| 44 | 7614-25C00250-U0BK8-H0 | 25 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 928 | 89 |
| 45 | 7614-26C00250-U0BK8-H0 | 26 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 24.2 | 958 | 89 |
| 46 | 7614-30C00250-U0BK8-H0 | 30 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 25.6 | 1085 | 94 |
| 47 | 7614-32C00250-U0BK8-H0 | 32 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 26.6 | 1152 | 98 |
| 48 | 7614-35C00250-U0BK8-H0 | 35 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 27.6 | 1246 | 102 |
| 49 | 7614-36C00250-U0BK8-H0 | 36 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 27.6 | 1277 | 102 |
| 50 | 7614-40C00250-U0BK8-H0 | 40 | 2.5 | 7 | 0.7 | 1.8 | 1.24 | 28.7 | 1398 | 106 |
| 51 | 7614-50C00250-U0BK8-H0 | 50 | 2.5 | 7 | 0.7 | 1.9 | 1.32 | 32.4 | 1732 | 121 |
| 52 | 7614-61C00250-U0BK8-H0 | 61 | 2.5 | 7 | 0.7 | 2.0 | 1.40 | 34.8 | 2092 | 131 |

# LV POWER, SINGLE CORE, ARMOURED CABLE

## CU/PVC/PVC/AWA/PVC

## SPECIFICATION: IEC 60502-1

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | PVC TI-3 |
| Color Code | 1C: Black |
| Inner Sheath | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of Aluminium wire armor is applied over the inner sheath. |
| Outer Sheath** | Extruded Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example – CU/PVC/AWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
***Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 73D1-01C02500-A0BK8-00 | 1C | 25 | 7 | 1.2 | 1.0 | 10.5 | 1.6 | 13.7 | 1.4 | 0.92 | 16.3 | 485 | 46 |
| 2 | 73D1-01C03500-A0BK8-00 | 1C | 35 | 7 | 1.2 | 1.0 | 11.6 | 1.6 | 14.8 | 1.4 | 0.92 | 17.4 | 646 | 50 |
| 3 | 73D1-01C05000-A0BK8-00 | 1C | 50 | 19 | 1.4 | 1.0 | 13.3 | 1.6 | 16.5 | 1.5 | 1.00 | 19.3 | 815 | 59 |
| 4 | 73D1-01C07000-A0BK8-00 | 1C | 70 | 19 | 1.4 | 1.0 | 14.9 | 1.6 | 18.1 | 1.5 | 1.00 | 20.9 | 1046 | 64 |
| 5 | 73D1-01C09500-A0BK8-00 | 1C | 95 | 19 | 1.6 | 1.0 | 16.9 | 1.6 | 20.1 | 1.6 | 1.08 | 22.9 | 1335 | 75 |
| 6 | 73D1-01C12000-A0BK8-00 | 1C | 120 | 19 | 1.6 | 1.0 | 18.3 | 1.6 | 21.5 | 1.7 | 1.16 | 24.5 | 1610 | 85 |
| 7 | 73D1-01C15000-A0BK8-00 | 1C | 150 | 19 | 1.8 | 1.0 | 20.3 | 1.6 | 23.5 | 1.7 | 1.16 | 26.5 | 1941 | 93 |
| 8 | 73D1-01C18500-A0BK8-00 | 1C | 185 | 37 | 2.0 | 1.0 | 22.3 | 1.6 | 25.5 | 1.8 | 1.24 | 28.7 | 2325 | 103 |
| 9 | 73D1-01C24000-A0BK8-00 | 1C | 240 | 37 | 2.2 | 1.0 | 24.9 | 1.6 | 28.1 | 1.9 | 1.32 | 31.5 | 2950 | 124 |
| 10 | 73D1-01C30000-A0BK8-00 | 1C | 300 | 37 | 2.4 | 1.0 | 27.4 | 2.0 | 31.4 | 2.0 | 1.40 | 35.0 | 3690 | 145 |
| 11 | 73D1-01C40000-A0BK8-00 | 1C | 400 | 61 | 2.6 | 1.2 | 31.4 | 2.0 | 35.4 | 2.1 | 1.48 | 39.2 | 4640 | 171 |
| 12 | 73D1-01C50000-A0BK8-00 | 1C | 500 | 61 | 2.8 | 1.2 | 34.6 | 2.0 | 38.6 | 2.2 | 1.56 | 42.6 | 5760 | 195 |
| 13 | 73D1-01C63000-A0BK8-00 | 1C | 630 | 61 | 2.8 | 1.2 | 38.1 | 2.0 | 42.1 | 2.4 | 1.72 | 46.5 | 7230 | 233 |
| 14 | 73D1-01C80000-A0BK8-00 | 1C | 800 | 61 | 2.8 | 1.4 | 42.3 | 2.5 | 47.3 | 2.5 | 1.80 | 51.9 | 9400 | 272 |
| 15 | 73D1-1C100000-A0BK8-00 | 1C | 1000 | 61 | 3.0 | 1.4 | 47.3 | 2.5 | 52.3 | 2.7 | 1.96 | 57.3 | 11620 | 324 |
| 16 | 7311-01C80000-A0BK8-00* | 1C | 800 | 91 | 2.8 | 1.4 | 45.7 | 2.5 | 50.7 | 2.5 | 1.80 | 55.3 | 9550 | 290 |
| 17 | 7311-1C100000-A0BK8-00* | 1C | 1000 | 91 | 3.0 | 1.4 | 50.6 | 2.5 | 55.6 | 2.7 | 1.96 | 60.6 | 11790 | 344 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 73D1-01C02500-A0BK8-0A | 1C | 25 | 7 | 1.2 | 1.0 | 10.5 | 1.6 | 13.7 | 1.4 | 0.92 | 16.3 | 485 | 46 |
| 2 | 73D1-01C03500-A0BK8-0A | 1C | 35 | 7 | 1.2 | 1.0 | 11.6 | 1.6 | 14.8 | 1.4 | 0.92 | 17.4 | 646 | 50 |
| 3 | 73D1-01C05000-A0BK8-0A | 1C | 50 | 19 | 1.4 | 1.0 | 13.3 | 1.6 | 16.5 | 1.5 | 1.00 | 19.3 | 815 | 59 |
| 4 | 73D1-01C07000-A0BK8-0A | 1C | 70 | 19 | 1.4 | 1.0 | 14.9 | 1.6 | 18.1 | 1.5 | 1.00 | 20.9 | 1046 | 64 |
| 5 | 73D1-01C09500-A0BK8-0A | 1C | 95 | 19 | 1.6 | 1.0 | 16.9 | 1.6 | 20.1 | 1.6 | 1.08 | 22.9 | 1335 | 75 |
| 6 | 73D1-01C12000-A0BK8-0A | 1C | 120 | 19 | 1.6 | 1.0 | 18.3 | 1.6 | 21.5 | 1.7 | 1.16 | 24.5 | 1610 | 85 |
| 7 | 73D1-01C15000-A0BK8-0A | 1C | 150 | 19 | 1.8 | 1.0 | 20.3 | 1.6 | 23.5 | 1.7 | 1.16 | 26.5 | 1941 | 93 |
| 8 | 73D1-01C18500-A0BK8-0A | 1C | 185 | 37 | 2.0 | 1.0 | 22.3 | 1.6 | 25.5 | 1.8 | 1.24 | 28.7 | 2325 | 103 |
| 9 | 73D1-01C24000-A0BK8-0A | 1C | 240 | 37 | 2.2 | 1.0 | 24.9 | 1.6 | 28.1 | 1.9 | 1.32 | 31.5 | 2950 | 124 |
| 10 | 73D1-01C30000-A0BK8-0A | 1C | 300 | 37 | 2.4 | 1.0 | 27.4 | 2.0 | 31.4 | 2.0 | 1.40 | 35.0 | 3690 | 145 |
| 11 | 73D1-01C40000-A0BK8-0A | 1C | 400 | 61 | 2.6 | 1.2 | 31.4 | 2.0 | 35.4 | 2.1 | 1.48 | 39.2 | 4640 | 171 |
| 12 | 73D1-01C50000-A0BK8-0A | 1C | 500 | 61 | 2.8 | 1.2 | 34.6 | 2.0 | 38.6 | 2.2 | 1.56 | 42.6 | 5760 | 195 |
| 13 | 73D1-01C63000-A0BK8-0A | 1C | 630 | 61 | 2.8 | 1.2 | 38.1 | 2.0 | 42.1 | 2.4 | 1.72 | 46.5 | 7230 | 233 |
| 14 | 73D1-01C80000-A0BK8-0A | 1C | 800 | 61 | 2.8 | 1.4 | 42.3 | 2.5 | 47.3 | 2.5 | 1.80 | 51.9 | 9400 | 272 |
| 15 | 73D1-1C100000-A0BK8-0A | 1C | 1000 | 61 | 3.0 | 1.4 | 47.3 | 2.5 | 52.3 | 2.7 | 1.96 | 57.3 | 11620 | 324 |
| 16 | 7311-01C80000-A0BK8-0A* | 1C | 800 | 91 | 2.8 | 1.4 | 45.7 | 2.5 | 50.7 | 2.5 | 1.80 | 55.3 | 9550 | 290 |
| 17 | 7311-1C100000-A0BK8-0A* | 1C | 1000 | 91 | 3.0 | 1.4 | 50.6 | 2.5 | 55.6 | 2.7 | 1.96 | 60.6 | 11790 | 344 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 73D1-01C02500-A0BK8-NI | 1C | 25 | 7 | 1.2 | 1.0 | 10.5 | 1.6 | 13.7 | 1.4 | 0.92 | 16.3 | 485 | 46 |
| 2 | 73D1-01C03500-A0BK8-NI | 1C | 35 | 7 | 1.2 | 1.0 | 11.6 | 1.6 | 14.8 | 1.4 | 0.92 | 17.4 | 646 | 50 |
| 3 | 73D1-01C05000-A0BK8-NI | 1C | 50 | 19 | 1.4 | 1.0 | 13.3 | 1.6 | 16.5 | 1.5 | 1.00 | 19.3 | 815 | 59 |
| 4 | 73D1-01C07000-A0BK8-NI | 1C | 70 | 19 | 1.4 | 1.0 | 14.9 | 1.6 | 18.1 | 1.5 | 1.00 | 20.9 | 1046 | 64 |
| 5 | 73D1-01C09500-A0BK8-NI | 1C | 95 | 19 | 1.6 | 1.0 | 16.9 | 1.6 | 20.1 | 1.6 | 1.08 | 22.9 | 1335 | 75 |
| 6 | 73D1-01C12000-A0BK8-NI | 1C | 120 | 19 | 1.6 | 1.0 | 18.3 | 1.6 | 21.5 | 1.7 | 1.16 | 24.5 | 1610 | 85 |
| 7 | 73D1-01C15000-A0BK8-NI | 1C | 150 | 19 | 1.8 | 1.0 | 20.3 | 1.6 | 23.5 | 1.7 | 1.16 | 26.5 | 1941 | 93 |
| 8 | 73D1-01C18500-A0BK8-NI | 1C | 185 | 37 | 2.0 | 1.0 | 22.3 | 1.6 | 25.5 | 1.8 | 1.24 | 28.7 | 2325 | 103 |
| 9 | 73D1-01C24000-A0BK8-NI | 1C | 240 | 37 | 2.2 | 1.0 | 24.9 | 1.6 | 28.1 | 1.9 | 1.32 | 31.5 | 2950 | 124 |
| 10 | 73D1-01C30000-A0BK8-NI | 1C | 300 | 37 | 2.4 | 1.0 | 27.4 | 2.0 | 31.4 | 2.0 | 1.40 | 35.0 | 3690 | 145 |
| 11 | 73D1-01C40000-A0BK8-NI | 1C | 400 | 61 | 2.6 | 1.2 | 31.4 | 2.0 | 35.4 | 2.1 | 1.48 | 39.2 | 4640 | 171 |
| 12 | 73D1-01C50000-A0BK8-NI | 1C | 500 | 61 | 2.8 | 1.2 | 34.6 | 2.0 | 38.6 | 2.2 | 1.56 | 42.6 | 5760 | 195 |
| 13 | 73D1-01C63000-A0BK8-NI | 1C | 630 | 61 | 2.8 | 1.2 | 38.1 | 2.0 | 42.1 | 2.4 | 1.72 | 46.5 | 7230 | 233 |
| 14 | 73D1-01C80000-A0BK8-NI | 1C | 800 | 61 | 2.8 | 1.4 | 42.3 | 2.5 | 47.3 | 2.5 | 1.80 | 51.9 | 9400 | 272 |
| 15 | 73D1-1C100000-A0BK8-NI | 1C | 1000 | 61 | 3.0 | 1.4 | 47.3 | 2.5 | 52.3 | 2.7 | 1.96 | 57.3 | 11620 | 324 |
| 16 | 7311-01C80000-A0BK8-NI* | 1C | 800 | 91 | 2.8 | 1.4 | 45.7 | 2.5 | 50.7 | 2.5 | 1.80 | 55.3 | 9550 | 290 |
| 17 | 7311-1C100000-A0BK8-NI* | 1C | 1000 | 91 | 3.0 | 1.4 | 50.6 | 2.5 | 55.6 | 2.7 | 1.96 | 60.6 | 11790 | 344 |

*Non-Compacted circular conductor, all other compacted circular conductor.

# LV POWER, MULTI CORE, ARMOURED CABLE

CU/PVC/PVC/GSWA/PVC

SPECIFICATION: IEC 60502-1

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | PVC TI-3 |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/PVC/GSWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR<br>IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
Cables with Two/Three/Four and half core is available on request.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-W0BK8-00* | 2C | 1.5 | 7 | 0.8 | 1.0 | 8.8 | 0.9 | 10.6 | 1.8 | 1.24 | 13.8 | 345 | 47 |
| 2 | 7311-02C00250-W0BK8-00* | 2C | 2.5 | 7 | 0.8 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 385 | 51 |
| 3 | 7311-02C00400-W0BK8-00* | 2C | 4 | 7 | 1.0 | 1.0 | 11.4 | 0.9 | 13.2 | 1.8 | 1.24 | 16.4 | 480 | 58 |
| 4 | 7311-02C00600-W0BK8-00* | 2C | 6 | 7 | 1.0 | 1.0 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 645 | 65 |
| 5 | 7311-02C01000-W0BK8-00* | 2C | 10 | 7 | 1.0 | 1.0 | 14.5 | 1.25 | 17.0 | 1.8 | 1.24 | 20.2 | 805 | 73 |
| 6 | 73D1-02C01600-W0BK8-00 | 2C | 16 | 7 | 1.0 | 1.0 | 15.8 | 1.25 | 18.3 | 1.8 | 1.24 | 21.5 | 955 | 78 |
| 7 | 73D1-02C02500-W0BK8-00 | 2C | 25 | 7 | 1.2 | 1.0 | 19.0 | 1.6 | 22.2 | 1.8 | 1.24 | 25.4 | 1380 | 93 |
| 8 | 73D1-02C03500-W0BK8-00 | 2C | 35 | 7 | 1.2 | 1.0 | 21.2 | 1.6 | 24.4 | 1.8 | 1.24 | 27.6 | 1670 | 102 |
| 9 | 73D1-02C05000-W0BK8-00 | 2C | 50 | 19 | 1.4 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.3 | 2085 | 123 |
| 10 | 73D1-02C07000-W0BK8-00 | 2C | 70 | 19 | 1.4 | 1.0 | 27.7 | 2.0 | 31.7 | 2.0 | 1.40 | 35.3 | 2840 | 146 |
| 11 | 73D1-02C09500-W0BK8-00 | 2C | 95 | 19 | 1.6 | 1.2 | 32.2 | 2.0 | 36.2 | 2.2 | 1.56 | 40.2 | 3615 | 184 |
| 12 | 73D1-02C12000-W0BK8-00 | 2C | 120 | 19 | 1.6 | 1.2 | 35.1 | 2.0 | 39.1 | 2.3 | 1.64 | 43.3 | 4265 | 207 |
| 13 | 73D1-02C15000-W0BK8-00 | 2C | 150 | 19 | 1.8 | 1.2 | 38.9 | 2.5 | 43.9 | 2.4 | 1.72 | 48.3 | 5435 | 242 |
| 14 | 73D1-02C18500-W0BK8-00 | 2C | 185 | 37 | 2.0 | 1.4 | 43.3 | 2.5 | 48.3 | 2.6 | 1.88 | 53.1 | 6455 | 289 |
| 15 | 73D1-02C24000-W0BK8-00 | 2C | 240 | 37 | 2.2 | 1.4 | 48.6 | 2.5 | 53.6 | 2.8 | 2.04 | 58.8 | 7960 | 345 |
| 16 | 73D1-02C30000-W0BK8-00 | 2C | 300 | 37 | 2.4 | 1.6 | 54.1 | 2.5 | 59.1 | 2.9 | 2.12 | 64.5 | 9620 | 393 |
| 17 | 73D1-02C40000-W0BK8-00 | 2C | 400 | 61 | 2.6 | 1.6 | 61.2 | 2.5 | 66.2 | 3.2 | 2.36 | 72.2 | 11735 | 486 |
| 18 | 7311-03C00150-W0BK8-00* | 3C | 1.5 | 7 | 0.8 | 1.0 | 9.3 | 0.9 | 11.1 | 1.8 | 1.24 | 14.3 | 380 | 49 |
| 19 | 7311-03C00250-W0BK8-00* | 3C | 2.5 | 7 | 0.8 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 435 | 53 |
| 20 | 7311-03C00400-W0BK8-00* | 3C | 4 | 7 | 1.0 | 1.0 | 12.2 | 1.25 | 14.7 | 1.8 | 1.24 | 17.9 | 650 | 64 |
| 21 | 7311-03C00600-W0BK8-00* | 3C | 6 | 7 | 1.0 | 1.0 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 755 | 69 |
| 22 | 7311-03C01000-W0BK8-00* | 3C | 10 | 7 | 1.0 | 1.0 | 15.5 | 1.25 | 18.0 | 1.8 | 1.24 | 21.2 | 960 | 77 |
| 23 | 73D1-03C01600-W0BK8-00 | 3C | 16 | 7 | 1.0 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 22.6 | 1165 | 82 |
| 24 | 73D1-03C02500-W0BK8-00 | 3C | 25 | 7 | 1.2 | 1.0 | 20.3 | 1.6 | 23.5 | 1.8 | 1.24 | 26.7 | 1705 | 99 |
| 25 | 73D1-03C03500-W0BK8-00 | 3C | 35 | 7 | 1.2 | 1.0 | 22.7 | 1.6 | 25.9 | 1.8 | 1.24 | 29.1 | 2070 | 108 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 26 | 7311-04C00150-W0BK8-00* | 4C | 1.5 | 7 | 0.8 | 1.0 | 10.1 | 0.9 | 11.9 | 1.8 | 1.24 | 15.1 | 430 | 53 |
| 27 | 7311-04C00250-W0BK8-00* | 4C | 2.5 | 7 | 0.8 | 1.0 | 11.1 | 0.9 | 12.9 | 1.8 | 1.24 | 16.1 | 500 | 57 |
| 28 | 7311-04C00400-W0BK8-00* | 4C | 4 | 7 | 1.0 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 735 | 68 |
| 29 | 7311-04C00600-W0BK8-00* | 4C | 6 | 7 | 1.0 | 1.0 | 14.8 | 1.25 | 17.3 | 1.8 | 1.24 | 20.5 | 875 | 74 |
| 30 | 7311-04C01000-W0BK8-00* | 4C | 10 | 7 | 1.0 | 1.0 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 1125 | 83 |
| 31 | 73D1-04C01600-W0BK8-00 | 4C | 16 | 7 | 1.0 | 1.0 | 18.7 | 1.6 | 21.9 | 1.8 | 1.24 | 25.1 | 1535 | 92 |
| 32 | 7311-05C00150-W0BK8-00-02* | 5C | 1.5 | 7 | 0.8 | 1.0 | 11.0 | 0.9 | 12.8 | 1.8 | 1.24 | 16.0 | 475 | 56 |
| 33 | 7311-05C00250-W0BK8-00-02* | 5C | 2.5 | 7 | 0.8 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 565 | 61 |
| 34 | 7311-05C00400-W0BK8-00-02* | 5C | 4 | 7 | 1.0 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 840 | 73 |
| 35 | 7311-05C00600-W0BK8-00-02* | 5C | 6 | 7 | 1.0 | 1.0 | 16.2 | 1.25 | 18.7 | 1.8 | 1.24 | 21.9 | 1010 | 80 |
| 36 | 7311-05C01000-W0BK8-00-02* | 5C | 10 | 7 | 1.0 | 1.0 | 18.7 | 1.6 | 21.9 | 1.8 | 1.24 | 25.1 | 1440 | 92 |
| 37 | 73D1-05C01600-W0BK8-00-02 | 5C | 16 | 7 | 1.0 | 1.0 | 20.5 | 1.6 | 23.7 | 1.8 | 1.24 | 26.9 | 1775 | 99 |
| 38 | 73D1-05C02500-W0BK8-00-02 | 5C | 25 | 7 | 1.2 | 1.0 | 24.8 | 1.6 | 28.0 | 1.9 | 1.32 | 31.4 | 2440 | 123 |
| 39 | 73D1-05C03500-W0BK8-00-02 | 5C | 35 | 7 | 1.2 | 1.0 | 27.7 | 2.0 | 31.7 | 2.0 | 1.40 | 35.3 | 3280 | 146 |
| 40 | 73D1-05C05000-W0BK8-00-02 | 5C | 50 | 19 | 1.4 | 1.2 | 32.9 | 2.0 | 36.9 | 2.2 | 1.56 | 40.9 | 4240 | 187 |
| 41 | 73D1-05C07000-W0BK8-00-02 | 5C | 70 | 19 | 1.4 | 1.2 | 37.0 | 2.0 | 41.0 | 2.3 | 1.64 | 45.2 | 5455 | 217 |
| 42 | 73D1-05C09500-W0BK8-00-02 | 5C | 95 | 19 | 1.6 | 1.4 | 42.9 | 2.5 | 47.9 | 2.5 | 1.80 | 52.5 | 7475 | 275 |
| 43 | 73D1-05C12000-W0BK8-00-02 | 5C | 120 | 19 | 1.6 | 1.4 | 46.8 | 2.5 | 51.8 | 2.7 | 1.96 | 56.8 | 8990 | 321 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-W0BK8-0A* | 2C | 1.5 | 7 | 0.8 | 1.0 | 8.8 | 0.9 | 10.6 | 1.8 | 1.24 | 13.8 | 345 | 47 |
| 2 | 7311-02C00250-W0BK8-0A* | 2C | 2.5 | 7 | 0.8 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 385 | 51 |
| 3 | 7311-02C00400-W0BK8-0A* | 2C | 4 | 7 | 1.0 | 1.0 | 11.4 | 0.9 | 13.2 | 1.8 | 1.24 | 16.4 | 480 | 58 |
| 4 | 7311-02C00600-W0BK8-0A* | 2C | 6 | 7 | 1.0 | 1.0 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 645 | 65 |
| 5 | 7311-02C01000-W0BK8-0A* | 2C | 10 | 7 | 1.0 | 1.0 | 14.5 | 1.25 | 17.0 | 1.8 | 1.24 | 20.2 | 805 | 73 |
| 6 | 73D1-02C01600-W0BK8-0A | 2C | 16 | 7 | 1.0 | 1.0 | 15.8 | 1.25 | 18.3 | 1.8 | 1.24 | 21.5 | 955 | 78 |
| 7 | 73D1-02C02500-W0BK8-0A | 2C | 25 | 7 | 1.2 | 1.0 | 19.0 | 1.6 | 22.2 | 1.8 | 1.24 | 25.4 | 1380 | 93 |
| 8 | 73D1-02C03500-W0BK8-0A | 2C | 35 | 7 | 1.2 | 1.0 | 21.2 | 1.6 | 24.4 | 1.8 | 1.24 | 27.6 | 1670 | 102 |
| 9 | 73D1-02C05000-W0BK8-0A | 2C | 50 | 19 | 1.4 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.3 | 2085 | 123 |
| 10 | 73D1-02C07000-W0BK8-0A | 2C | 70 | 19 | 1.4 | 1.0 | 27.7 | 2.0 | 31.7 | 2.0 | 1.40 | 35.3 | 2840 | 146 |
| 11 | 73D1-02C09500-W0BK8-0A | 2C | 95 | 19 | 1.6 | 1.2 | 32.2 | 2.0 | 36.2 | 2.2 | 1.56 | 40.2 | 3615 | 184 |
| 12 | 73D1-02C12000-W0BK8-0A | 2C | 120 | 19 | 1.6 | 1.2 | 35.1 | 2.0 | 39.1 | 2.3 | 1.64 | 43.3 | 4265 | 207 |
| 13 | 73D1-02C15000-W0BK8-0A | 2C | 150 | 19 | 1.8 | 1.2 | 38.9 | 2.5 | 43.9 | 2.4 | 1.72 | 48.3 | 5435 | 242 |
| 14 | 73D1-02C18500-W0BK8-0A | 2C | 185 | 37 | 2.0 | 1.4 | 43.3 | 2.5 | 48.3 | 2.6 | 1.88 | 53.1 | 6455 | 289 |
| 15 | 73D1-02C24000-W0BK8-0A | 2C | 240 | 37 | 2.2 | 1.4 | 48.6 | 2.5 | 53.6 | 2.8 | 2.04 | 58.8 | 7960 | 345 |
| 16 | 73D1-02C30000-W0BK8-0A | 2C | 300 | 37 | 2.4 | 1.6 | 54.1 | 2.5 | 59.1 | 2.9 | 2.12 | 64.5 | 9620 | 393 |
| 17 | 73D1-02C40000-W0BK8-0A | 2C | 400 | 61 | 2.6 | 1.6 | 61.2 | 2.5 | 66.2 | 3.2 | 2.36 | 72.2 | 11735 | 486 |
| 18 | 7311-03C00150-W0BK8-0A* | 3C | 1.5 | 7 | 0.8 | 1.0 | 9.3 | 0.9 | 11.1 | 1.8 | 1.24 | 14.3 | 380 | 49 |
| 19 | 7311-03C00250-W0BK8-0A* | 3C | 2.5 | 7 | 0.8 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 435 | 53 |
| 20 | 7311-03C00400-W0BK8-0A* | 3C | 4 | 7 | 1.0 | 1.0 | 12.2 | 1.25 | 14.7 | 1.8 | 1.24 | 17.9 | 650 | 64 |

*Non-Compacted circular conductor, all other compacted circular conductor.

## TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)

CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 21 | 7311-03C00600-W0BK8-0A* | 3C | 6 | 7 | 1.0 | 1.0 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 755 | 69 |
| 22 | 7311-03C01000-W0BK8-0A* | 3C | 10 | 7 | 1.0 | 1.0 | 15.5 | 1.25 | 18.0 | 1.8 | 1.24 | 21.2 | 960 | 77 |
| 23 | 73D1-03C01600-W0BK8-0A | 3C | 16 | 7 | 1.0 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 22.6 | 1165 | 82 |
| 24 | 73D1-03C02500-W0BK8-0A | 3C | 25 | 7 | 1.2 | 1.0 | 20.3 | 1.6 | 23.5 | 1.8 | 1.24 | 26.7 | 1705 | 99 |
| 25 | 73D1-03C03500-W0BK8-0A | 3C | 35 | 7 | 1.2 | 1.0 | 22.7 | 1.6 | 25.9 | 1.8 | 1.24 | 29.1 | 2070 | 108 |
| 26 | 7311-04C00150-W0BK8-0A* | 4C | 1.5 | 7 | 0.8 | 1.0 | 10.1 | 0.9 | 11.9 | 1.8 | 1.24 | 15.1 | 430 | 53 |
| 27 | 7311-04C00250-W0BK8-0A* | 4C | 2.5 | 7 | 0.8 | 1.0 | 11.1 | 0.9 | 12.9 | 1.8 | 1.24 | 16.1 | 500 | 57 |
| 28 | 7311-04C00400-W0BK8-0A* | 4C | 4 | 7 | 1.0 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 735 | 68 |
| 29 | 7311-04C00600-W0BK8-0A* | 4C | 6 | 7 | 1.0 | 1.0 | 14.8 | 1.25 | 17.3 | 1.8 | 1.24 | 20.5 | 875 | 74 |
| 30 | 7311-04C01000-W0BK8-0A* | 4C | 10 | 7 | 1.0 | 1.0 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 1125 | 83 |
| 31 | 73D1-04C01600-W0BK8-0A | 4C | 16 | 7 | 1.0 | 1.0 | 18.7 | 1.6 | 21.9 | 1.8 | 1.24 | 25.1 | 1535 | 92 |
| 32 | 7311-05C00150-W0BK8-0A-02* | 5C | 1.5 | 7 | 0.8 | 1.0 | 11.0 | 0.9 | 12.8 | 1.8 | 1.24 | 16.0 | 475 | 56 |
| 33 | 7311-05C00250-W0BK8-0A-02* | 5C | 2.5 | 7 | 0.8 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 565 | 61 |
| 34 | 7311-05C00400-W0BK8-0A-02* | 5C | 4 | 7 | 1.0 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 840 | 73 |
| 35 | 7311-05C00600-W0BK8-0A-02* | 5C | 6 | 7 | 1.0 | 1.0 | 16.2 | 1.25 | 18.7 | 1.8 | 1.24 | 21.9 | 1010 | 80 |
| 36 | 7311-05C01000-W0BK8-0A-02* | 5C | 10 | 7 | 1.0 | 1.0 | 18.7 | 1.6 | 21.9 | 1.8 | 1.24 | 25.1 | 1440 | 92 |
| 37 | 73D1-05C01600-W0BK8-0A-02 | 5C | 16 | 7 | 1.0 | 1.0 | 20.5 | 1.6 | 23.7 | 1.8 | 1.24 | 26.9 | 1775 | 99 |
| 38 | 73D1-05C02500-W0BK8-0A-02 | 5C | 25 | 7 | 1.2 | 1.0 | 24.8 | 1.6 | 28.0 | 1.9 | 1.32 | 31.4 | 2440 | 123 |
| 39 | 73D1-05C03500-W0BK8-0A-02 | 5C | 35 | 7 | 1.2 | 1.0 | 27.7 | 2.0 | 31.7 | 2.0 | 1.40 | 35.3 | 3280 | 146 |
| 49 | 73D1-05C05000-W0BK8-0A-02 | 5C | 50 | 19 | 1.4 | 1.2 | 32.9 | 2.0 | 36.9 | 2.2 | 1.56 | 40.9 | 4240 | 187 |
| 41 | 73D1-05C07000-W0BK8-0A-02 | 5C | 70 | 19 | 1.4 | 1.2 | 37.0 | 2.0 | 41.0 | 2.3 | 1.64 | 45.2 | 5455 | 217 |
| 42 | 73D1-05C09500-W0BK8-0A-02 | 5C | 95 | 19 | 1.6 | 1.4 | 42.9 | 2.5 | 47.9 | 2.5 | 1.80 | 52.5 | 7475 | 275 |
| 43 | 73D1-05C12000-W0BK8-0A-02 | 5C | 120 | 19 | 1.6 | 1.4 | 46.8 | 2.5 | 51.8 | 2.7 | 1.96 | 56.8 | 8990 | 321 |

*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-W0BK8-NI* | 2C | 1.5 | 7 | 0.8 | 1.0 | 8.8 | 0.9 | 10.6 | 1.8 | 1.24 | 13.8 | 345 | 47 |
| 2 | 7311-02C00250-W0BK8-NI* | 2C | 2.5 | 7 | 0.8 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 385 | 51 |
| 3 | 7311-02C00400-W0BK8-NI* | 2C | 4 | 7 | 1.0 | 1.0 | 11.4 | 0.9 | 13.2 | 1.8 | 1.24 | 16.4 | 480 | 58 |
| 4 | 7311-02C00600-W0BK8-NI* | 2C | 6 | 7 | 1.0 | 1.0 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 645 | 65 |
| 5 | 7311-02C01000-W0BK8-NI* | 2C | 10 | 7 | 1.0 | 1.0 | 14.5 | 1.25 | 17.0 | 1.8 | 1.24 | 20.2 | 805 | 73 |
| 6 | 73D1-02C01600-W0BK8-NI | 2C | 16 | 7 | 1.0 | 1.0 | 15.8 | 1.25 | 18.3 | 1.8 | 1.24 | 21.5 | 955 | 78 |
| 7 | 73D1-02C02500-W0BK8-NI | 2C | 25 | 7 | 1.2 | 1.0 | 19.0 | 1.6 | 22.2 | 1.8 | 1.24 | 25.4 | 1380 | 93 |
| 8 | 73D1-02C03500-W0BK8-NI | 2C | 35 | 7 | 1.2 | 1.0 | 21.2 | 1.6 | 24.4 | 1.8 | 1.24 | 27.6 | 1670 | 102 |
| 9 | 73D1-02C05000-W0BK8-NI | 2C | 50 | 19 | 1.4 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.3 | 2085 | 123 |
| 10 | 73D1-02C07000-W0BK8-NI | 2C | 70 | 19 | 1.4 | 1.0 | 27.7 | 2.0 | 31.7 | 2.0 | 1.40 | 35.3 | 2840 | 146 |
| 11 | 73D1-02C09500-W0BK8-NI | 2C | 95 | 19 | 1.6 | 1.2 | 32.2 | 2.0 | 36.2 | 2.2 | 1.56 | 40.2 | 3615 | 184 |
| 12 | 73D1-02C12000-W0BK8-NI | 2C | 120 | 19 | 1.6 | 1.2 | 35.1 | 2.0 | 39.1 | 2.3 | 1.64 | 43.3 | 4265 | 207 |
| 13 | 73D1-02C15000-W0BK8-NI | 2C | 150 | 19 | 1.8 | 1.2 | 38.9 | 2.5 | 43.9 | 2.4 | 1.72 | 48.3 | 5435 | 242 |
| 14 | 73D1-02C18500-W0BK8-NI | 2C | 185 | 37 | 2.0 | 1.4 | 43.3 | 2.5 | 48.3 | 2.6 | 1.88 | 53.1 | 6455 | 289 |
| 15 | 73D1-02C24000-W0BK8-NI | 2C | 240 | 37 | 2.2 | 1.4 | 48.6 | 2.5 | 53.6 | 2.8 | 2.04 | 58.8 | 7960 | 345 |
| 16 | 73D1-02C30000-W0BK8-NI | 2C | 300 | 37 | 2.4 | 1.6 | 54.1 | 2.5 | 59.1 | 2.9 | 2.12 | 64.5 | 9620 | 393 |
| 17 | 73D1-02C40000-W0BK8-NI | 2C | 400 | 61 | 2.6 | 1.6 | 61.2 | 2.5 | 66.2 | 3.2 | 2.36 | 72.2 | 11735 | 486 |
| 18 | 7311-03C00150-W0BK8-NI* | 3C | 1.5 | 7 | 0.8 | 1.0 | 9.3 | 0.9 | 11.1 | 1.8 | 1.24 | 14.3 | 380 | 49 |
| 19 | 7311-03C00250-W0BK8-NI* | 3C | 2.5 | 7 | 0.8 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 435 | 53 |
| 20 | 7311-03C00400-W0BK8-NI* | 3C | 4 | 7 | 1.0 | 1.0 | 12.2 | 1.25 | 14.7 | 1.8 | 1.24 | 17.9 | 650 | 64 |
| 21 | 7311-03C00600-W0BK8-NI* | 3C | 6 | 7 | 1.0 | 1.0 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 755 | 69 |
| 22 | 7311-03C01000-W0BK8-NI* | 3C | 10 | 7 | 1.0 | 1.0 | 15.5 | 1.25 | 18.0 | 1.8 | 1.24 | 21.2 | 960 | 77 |
| 23 | 73D1-03C01600-W0BK8-NI | 3C | 16 | 7 | 1.0 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 22.6 | 1165 | 82 |
| 24 | 73D1-03C02500-W0BK8-NI | 3C | 25 | 7 | 1.2 | 1.0 | 20.3 | 1.6 | 23.5 | 1.8 | 1.24 | 26.7 | 1705 | 99 |
| 25 | 73D1-03C03500-W0BK8-NI | 3C | 35 | 7 | 1.2 | 1.0 | 22.7 | 1.6 | 25.9 | 1.8 | 1.24 | 29.1 | 2070w | 108 |

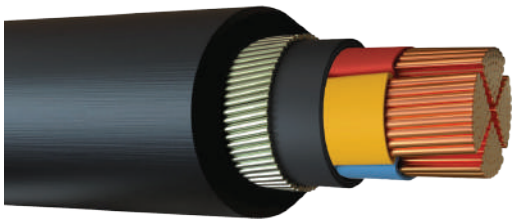
*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 26 | 7311-04C00150-W0BK8-NI* | 4C | 1.5 | 7 | 0.8 | 1.0 | 10.1 | 0.9 | 11.9 | 1.8 | 1.24 | 15.1 | 430 | 53 |
| 27 | 7311-04C00250-W0BK8-NI* | 4C | 2.5 | 7 | 0.8 | 1.0 | 11.1 | 0.9 | 12.9 | 1.8 | 1.24 | 16.1 | 500 | 57 |
| 28 | 7311-04C00400-W0BK8-NI* | 4C | 4 | 7 | 1.0 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 735 | 68 |
| 29 | 7311-04C00600-W0BK8-NI* | 4C | 6 | 7 | 1.0 | 1.0 | 14.8 | 1.25 | 17.3 | 1.8 | 1.24 | 20.5 | 875 | 74 |
| 30 | 7311-04C01000-W0BK8-NI* | 4C | 10 | 7 | 1.0 | 1.0 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 1125 | 83 |
| 31 | 73D1-04C01600-W0BK8-NI | 4C | 16 | 7 | 1.0 | 1.0 | 18.7 | 1.6 | 21.9 | 1.8 | 1.24 | 25.1 | 1535 | 92 |
| 32 | 7311-05C00150-W0BK8-NI-02* | 5C | 1.5 | 7 | 0.8 | 1.0 | 11.0 | 0.9 | 12.8 | 1.8 | 1.24 | 16.0 | 475 | 56 |
| 33 | 7311-05C00250-W0BK8-NI-02* | 5C | 2.5 | 7 | 0.8 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 565 | 61 |
| 34 | 7311-05C00400-W0BK8-NI-02* | 5C | 4 | 7 | 1.0 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 840 | 73 |
| 35 | 7311-05C00600-W0BK8-NI-02* | 5C | 6 | 7 | 1.0 | 1.0 | 16.2 | 1.25 | 18.7 | 1.8 | 1.24 | 21.9 | 1010 | 80 |
| 36 | 7311-05C01000-W0BK8-NI-02* | 5C | 10 | 7 | 1.0 | 1.0 | 18.7 | 1.6 | 21.9 | 1.8 | 1.24 | 25.1 | 1440 | 92 |
| 37 | 73D1-05C01600-W0BK8-NI-02 | 5C | 16 | 7 | 1.0 | 1.0 | 20.5 | 1.6 | 23.7 | 1.8 | 1.24 | 26.9 | 1775 | 99 |
| 38 | 73D1-05C02500-W0BK8-NI-02 | 5C | 25 | 7 | 1.2 | 1.0 | 24.8 | 1.6 | 28.0 | 1.9 | 1.32 | 31.4 | 2440 | 123 |
| 39 | 73D1-05C03500-W0BK8-NI-02 | 5C | 35 | 7 | 1.2 | 1.0 | 27.7 | 2.0 | 31.7 | 2.0 | 1.40 | 35.3 | 3280 | 146 |
| 40 | 73D1-05C05000-W0BK8-NI-02 | 5C | 50 | 19 | 1.4 | 1.2 | 32.9 | 2.0 | 36.9 | 2.2 | 1.56 | 40.9 | 4240 | 187 |
| 41 | 73D1-05C07000-W0BK8-NI-02 | 5C | 70 | 19 | 1.4 | 1.2 | 37.0 | 2.0 | 41.0 | 2.3 | 1.64 | 45.2 | 5455 | 217 |
| 42 | 73D1-05C09500-W0BK8-NI-02 | 5C | 95 | 19 | 1.6 | 1.4 | 42.9 | 2.5 | 47.9 | 2.5 | 1.80 | 52.5 | 7475 | 275 |
| 43 | 73D1-05C12000-W0BK8-NI-02 | 5C | 120 | 19 | 1.6 | 1.4 | 46.8 | 2.5 | 51.8 | 2.7 | 1.96 | 56.8 | 8990 | 321 |

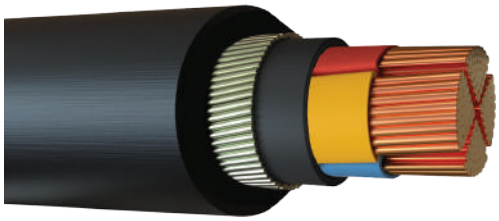
*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



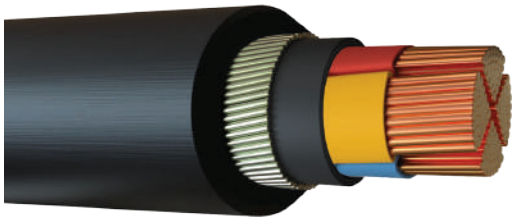
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 73F1-03C02500-W0BK8-00 | 3C | 25 | 7 | 1.2 | 1.0 | 17.8 | 1.6 | 21.0 | 1.8 | 1.24 | 24.2 | 1585 | 89 |
| 2 | 73F1-03C03500-W0BK8-00 | 3C | 35 | 7 | 1.2 | 1.0 | 19.7 | 1.6 | 22.9 | 1.8 | 1.24 | 26.1 | 1960 | 96 |
| 3 | 73F1-03C05000-W0BK8-00 | 3C | 50 | 19 | 1.4 | 1.0 | 22.9 | 1.6 | 26.1 | 2.0 | 1.40 | 29.7 | 2515 | 122 |
| 4 | 73F1-03C07000-W0BK8-00 | 3C | 70 | 19 | 1.4 | 1.2 | 26.0 | 2.0 | 30.0 | 2.1 | 1.48 | 33.8 | 3490 | 146 |
| 5 | 73F1-03C09500-W0BK8-00 | 3C | 95 | 19 | 1.6 | 1.2 | 29.7 | 2.0 | 33.7 | 2.2 | 1.56 | 37.7 | 4420 | 172 |
| 6 | 73F1-03C12000-W0BK8-00 | 3C | 120 | 19 | 1.6 | 1.2 | 32.1 | 2.0 | 36.1 | 2.3 | 1.64 | 40.4 | 5260 | 193 |
| 7 | 73F1-03C15000-W0BK8-00 | 3C | 150 | 19 | 1.8 | 1.4 | 36.0 | 2.5 | 41.0 | 2.5 | 1.80 | 45.7 | 6760 | 237 |
| 8 | 73F1-03C18500-W0BK8-00 | 3C | 185 | 37 | 2.0 | 1.4 | 39.7 | 2.5 | 44.7 | 2.7 | 1.96 | 49.7 | 8020 | 279 |
| 9 | 73F1-03C24000-W0BK8-00 | 3C | 240 | 37 | 2.2 | 1.6 | 44.8 | 2.5 | 49.8 | 2.9 | 2.12 | 55.2 | 10125 | 333 |
| 10 | 73F1-03C30000-W0BK8-00 | 3C | 300 | 37 | 2.4 | 1.6 | 49.4 | 2.5 | 54.4 | 3.1 | 2.28 | 60.3 | 12370 | 390 |
| 11 | 73F1-03C40000-W0BK8-00 | 3C | 400 | 61 | 2.6 | 1.8 | 56.2 | 3.15 | 62.5 | 3.4 | 2.52 | 68.9 | 15945 | 490 |
| 12 | 73F1-04C02500-W0BK8-00 | 4C | 25 | 7 | 1.2 | 1.0 | 20.8 | 1.6 | 24.0 | 1.8 | 1.24 | 27.2 | 1995 | 100 |
| 13 | 73F1-04C03500-W0BK8-00 | 4C | 35 | 7 | 1.2 | 1.0 | 23.2 | 1.6 | 26.4 | 1.9 | 1.32 | 29.8 | 2490 | 117 |
| 14 | 73F1-04C05000-W0BK8-00 | 4C | 50 | 19 | 1.4 | 1.2 | 27.5 | 2.0 | 31.5 | 2.1 | 1.48 | 35.3 | 3510 | 153 |
| 15 | 73F1-04C07000-W0BK8-00 | 4C | 70 | 19 | 1.4 | 1.2 | 30.8 | 2.0 | 34.8 | 2.2 | 1.56 | 38.8 | 4455 | 177 |
| 16 | 73F1-04C09500-W0BK8-00 | 4C | 95 | 19 | 1.6 | 1.2 | 35.3 | 2.5 | 40.3 | 2.4 | 1.72 | 44.7 | 6070 | 223 |
| 17 | 73F1-04C12000-W0BK8-00 | 4C | 120 | 19 | 1.6 | 1.4 | 38.8 | 2.5 | 43.8 | 2.5 | 1.80 | 48.4 | 7300 | 252 |
| 18 | 73F1-04C15000-W0BK8-00 | 4C | 150 | 19 | 1.8 | 1.4 | 43.1 | 2.5 | 48.1 | 2.7 | 1.96 | 53.1 | 8760 | 299 |
| 19 | 73F1-04C18500-W0BK8-00 | 4C | 185 | 37 | 2.0 | 1.6 | 47.9 | 2.5 | 52.9 | 2.9 | 2.12 | 58.3 | 10510 | 353 |
| 20 | 73F1-04C24000-W0BK8-00 | 4C | 240 | 37 | 2.2 | 1.6 | 53.7 | 2.5 | 58.7 | 3.1 | 2.28 | 64.5 | 13215 | 419 |
| 21 | 73F1-04C30000-W0BK8-00 | 4C | 300 | 37 | 2.4 | 1.6 | 59.4 | 3.15 | 65.7 | 3.3 | 2.44 | 71.9 | 16910 | 498 |
| 22 | 73F1-04C40000-W0BK8-00 | 4C | 400 | 61 | 2.6 | 1.8 | 67.6 | 3.15 | 73.9 | 3.6 | 2.68 | 80.7 | 20825 | 610 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 73F1-03C02500-W0BK8-0A | 3C | 25 | 7 | 1.2 | 1.0 | 17.8 | 1.6 | 21.0 | 1.8 | 1.24 | 24.2 | 1585 | 89 |
| 2 | 73F1-03C03500-W0BK8-0A | 3C | 35 | 7 | 1.2 | 1.0 | 19.7 | 1.6 | 22.9 | 1.8 | 1.24 | 26.1 | 1960 | 96 |
| 3 | 73F1-03C05000-W0BK8-0A | 3C | 50 | 19 | 1.4 | 1.0 | 22.9 | 1.6 | 26.1 | 2.0 | 1.40 | 29.7 | 2515 | 122 |
| 4 | 73F1-03C07000-W0BK8-0A | 3C | 70 | 19 | 1.4 | 1.2 | 26.0 | 2.0 | 30.0 | 2.1 | 1.48 | 33.8 | 3490 | 146 |
| 5 | 73F1-03C09500-W0BK8-0A | 3C | 95 | 19 | 1.6 | 1.2 | 29.7 | 2.0 | 33.7 | 2.2 | 1.56 | 37.7 | 4420 | 172 |
| 6 | 73F1-03C12000-W0BK8-0A | 3C | 120 | 19 | 1.6 | 1.2 | 32.1 | 2.0 | 36.1 | 2.3 | 1.64 | 40.4 | 5260 | 193 |
| 7 | 73F1-03C15000-W0BK8-0A | 3C | 150 | 19 | 1.8 | 1.4 | 36.0 | 2.5 | 41.0 | 2.5 | 1.80 | 45.7 | 6760 | 237 |
| 8 | 73F1-03C18500-W0BK8-0A | 3C | 185 | 37 | 2.0 | 1.4 | 39.7 | 2.5 | 44.7 | 2.7 | 1.96 | 49.7 | 8020 | 279 |
| 9 | 73F1-03C24000-W0BK8-0A | 3C | 240 | 37 | 2.2 | 1.6 | 44.8 | 2.5 | 49.8 | 2.9 | 2.12 | 55.2 | 10125 | 333 |
| 10 | 73F1-03C30000-W0BK8-0A | 3C | 300 | 37 | 2.4 | 1.6 | 49.4 | 2.5 | 54.4 | 3.1 | 2.28 | 60.3 | 12370 | 390 |
| 11 | 73F1-03C40000-W0BK8-0A | 3C | 400 | 61 | 2.6 | 1.8 | 56.2 | 3.15 | 62.5 | 3.4 | 2.52 | 68.9 | 15945 | 490 |
| 12 | 73F1-04C02500-W0BK8-0A | 4C | 25 | 7 | 1.2 | 1.0 | 20.8 | 1.6 | 24.0 | 1.8 | 1.24 | 27.2 | 1995 | 100 |
| 13 | 73F1-04C03500-W0BK8-0A | 4C | 35 | 7 | 1.2 | 1.0 | 23.2 | 1.6 | 26.4 | 1.9 | 1.32 | 29.8 | 2490 | 117 |
| 14 | 73F1-04C05000-W0BK8-0A | 4C | 50 | 19 | 1.4 | 1.2 | 27.5 | 2.0 | 31.5 | 2.1 | 1.48 | 35.3 | 3510 | 153 |
| 15 | 73F1-04C07000-W0BK8-0A | 4C | 70 | 19 | 1.4 | 1.2 | 30.8 | 2.0 | 34.8 | 2.2 | 1.56 | 38.8 | 4455 | 177 |
| 16 | 73F1-04C09500-W0BK8-0A | 4C | 95 | 19 | 1.6 | 1.2 | 35.3 | 2.5 | 40.3 | 2.4 | 1.72 | 44.7 | 6070 | 223 |
| 17 | 73F1-04C12000-W0BK8-0A | 4C | 120 | 19 | 1.6 | 1.4 | 38.8 | 2.5 | 43.8 | 2.5 | 1.80 | 48.4 | 7300 | 252 |
| 18 | 73F1-04C15000-W0BK8-0A | 4C | 150 | 19 | 1.8 | 1.4 | 43.1 | 2.5 | 48.1 | 2.7 | 1.96 | 53.1 | 8760 | 299 |
| 19 | 73F1-04C18500-W0BK8-0A | 4C | 185 | 37 | 2.0 | 1.6 | 47.9 | 2.5 | 52.9 | 2.9 | 2.12 | 58.3 | 10510 | 353 |
| 20 | 73F1-04C24000-W0BK8-0A | 4C | 240 | 37 | 2.2 | 1.6 | 53.7 | 2.5 | 58.7 | 3.1 | 2.28 | 64.5 | 13215 | 419 |
| 21 | 73F1-04C30000-W0BK8-0A | 4C | 300 | 37 | 2.4 | 1.6 | 59.4 | 3.15 | 65.7 | 3.3 | 2.44 | 71.9 | 16910 | 498 |
| 22 | 73F1-04C40000-W0BK8-0A | 4C | 400 | 61 | 2.6 | 1.8 | 67.6 | 3.15 | 73.9 | 3.6 | 2.68 | 80.7 | 20825 | 610 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 73F1-03C02500-W0BK8-NI | 3C | 25 | 7 | 1.2 | 1.0 | 17.8 | 1.6 | 21.0 | 1.8 | 1.24 | 24.2 | 1585 | 89 |
| 2 | 73F1-03C03500-W0BK8-NI | 3C | 35 | 7 | 1.2 | 1.0 | 19.7 | 1.6 | 22.9 | 1.8 | 1.24 | 26.1 | 1960 | 96 |
| 3 | 73F1-03C05000-W0BK8-NI | 3C | 50 | 19 | 1.4 | 1.0 | 22.9 | 1.6 | 26.1 | 2.0 | 1.40 | 29.7 | 2515 | 122 |
| 4 | 73F1-03C07000-W0BK8-NI | 3C | 70 | 19 | 1.4 | 1.2 | 26.0 | 2.0 | 30.0 | 2.1 | 1.48 | 33.8 | 3490 | 146 |
| 5 | 73F1-03C09500-W0BK8-NI | 3C | 95 | 19 | 1.6 | 1.2 | 29.7 | 2.0 | 33.7 | 2.2 | 1.56 | 37.7 | 4420 | 172 |
| 6 | 73F1-03C12000-W0BK8-NI | 3C | 120 | 19 | 1.6 | 1.2 | 32.1 | 2.0 | 36.1 | 2.3 | 1.64 | 40.4 | 5260 | 193 |
| 7 | 73F1-03C15000-W0BK8-NI | 3C | 150 | 19 | 1.8 | 1.4 | 36.0 | 2.5 | 41.0 | 2.5 | 1.80 | 45.7 | 6760 | 237 |
| 8 | 73F1-03C18500-W0BK8-NI | 3C | 185 | 37 | 2.0 | 1.4 | 39.7 | 2.5 | 44.7 | 2.7 | 1.96 | 49.7 | 8020 | 279 |
| 9 | 73F1-03C24000-W0BK8-NI | 3C | 240 | 37 | 2.2 | 1.6 | 44.8 | 2.5 | 49.8 | 2.9 | 2.12 | 55.2 | 10125 | 333 |
| 10 | 73F1-03C30000-W0BK8-NI | 3C | 300 | 37 | 2.4 | 1.6 | 49.4 | 2.5 | 54.4 | 3.1 | 2.28 | 60.3 | 12370 | 390 |
| 11 | 73F1-03C40000-W0BK8-NI | 3C | 400 | 61 | 2.6 | 1.8 | 56.2 | 3.15 | 62.5 | 3.4 | 2.52 | 68.9 | 15945 | 490 |
| 12 | 73F1-04C02500-W0BK8-NI | 4C | 25 | 7 | 1.2 | 1.0 | 20.8 | 1.6 | 24.0 | 1.8 | 1.24 | 27.2 | 1995 | 100 |
| 13 | 73F1-04C03500-W0BK8-NI | 4C | 35 | 7 | 1.2 | 1.0 | 23.2 | 1.6 | 26.4 | 1.9 | 1.32 | 29.8 | 2490 | 117 |
| 14 | 73F1-04C05000-W0BK8-NI | 4C | 50 | 19 | 1.4 | 1.2 | 27.5 | 2.0 | 31.5 | 2.1 | 1.48 | 35.3 | 3510 | 153 |
| 15 | 73F1-04C07000-W0BK8-NI | 4C | 70 | 19 | 1.4 | 1.2 | 30.8 | 2.0 | 34.8 | 2.2 | 1.56 | 38.8 | 4455 | 177 |
| 16 | 73F1-04C09500-W0BK8-NI | 4C | 95 | 19 | 1.6 | 1.2 | 35.3 | 2.5 | 40.3 | 2.4 | 1.72 | 44.7 | 6070 | 223 |
| 17 | 73F1-04C12000-W0BK8-NI | 4C | 120 | 19 | 1.6 | 1.4 | 38.8 | 2.5 | 43.8 | 2.5 | 1.80 | 48.4 | 7300 | 252 |
| 18 | 73F1-04C15000-W0BK8-NI | 4C | 150 | 19 | 1.8 | 1.4 | 43.1 | 2.5 | 48.1 | 2.7 | 1.96 | 53.1 | 8760 | 299 |
| 19 | 73F1-04C18500-W0BK8-NI | 4C | 185 | 37 | 2.0 | 1.6 | 47.9 | 2.5 | 52.9 | 2.9 | 2.12 | 58.3 | 10510 | 353 |
| 20 | 73F1-04C24000-W0BK8-NI | 4C | 240 | 37 | 2.2 | 1.6 | 53.7 | 2.5 | 58.7 | 3.1 | 2.28 | 64.5 | 13215 | 419 |
| 21 | 73F1-04C30000-W0BK8-NI | 4C | 300 | 37 | 2.4 | 1.6 | 59.4 | 3.15 | 65.7 | 3.3 | 2.44 | 71.9 | 16910 | 498 |
| 22 | 73F1-04C40000-W0BK8-NI | 4C | 400 | 61 | 2.6 | 1.8 | 67.6 | 3.15 | 73.9 | 3.6 | 2.68 | 80.7 | 20825 | 610 |

# CONTROL, MULTI CORE, ARMOURED CABLE

CU/PVC/PVC/GSWA/PVC

SPECIFICATION: IEC 60502-1


| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | PVC TI-3 |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C & Above: Black cores with Number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/PVC/GSWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR<br>IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-W0BK8-00 | 2 | 1.5 | 7 | 0.8 | 1.0 | 8.8 | 0.9 | 10.6 | 1.8 | 1.24 | 13.8 | 345 | 47 |
| 2 | 7311-03C00150-W0BK8-00 | 3 | 1.5 | 7 | 0.8 | 1.0 | 9.3 | 0.9 | 11.1 | 1.8 | 1.24 | 14.3 | 380 | 49 |
| 3 | 7311-04C00150-W0BK8-00 | 4 | 1.5 | 7 | 0.8 | 1.0 | 10.1 | 0.9 | 11.9 | 1.8 | 1.24 | 15.1 | 430 | 51 |
| 4 | 7311-05C00150-W0BK8-00 | 5 | 1.5 | 7 | 0.8 | 1.0 | 11.0 | 0.9 | 12.8 | 1.8 | 1.24 | 16.0 | 475 | 56 |
| 5 | 7311-06C00150-W0BK8-00 | 6 | 1.5 | 7 | 0.8 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 529 | 60 |
| 6 | 7311-07C00150-W0BK8-00 | 7 | 1.5 | 7 | 0.8 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 549 | 60 |
| 7 | 7311-08C00150-W0BK8-00 | 8 | 1.5 | 7 | 0.8 | 1.0 | 13.4 | 1.25 | 15.9 | 1.8 | 1.24 | 19.1 | 715 | 68 |
| 8 | 7311-10C00150-W0BK8-00 | 10 | 1.5 | 7 | 0.8 | 1.0 | 15.1 | 1.25 | 17.6 | 1.8 | 1.24 | 20.8 | 825 | 75 |
| 9 | 7311-12C00150-W0BK8-00 | 12 | 1.5 | 7 | 0.8 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 903 | 77 |
| 10 | 7311-14C00150-W0BK8-00 | 14 | 1.5 | 7 | 0.8 | 1.0 | 16.4 | 1.25 | 18.9 | 1.8 | 1.24 | 22.1 | 967 | 80 |
| 11 | 7311-15C00150-W0BK8-00 | 15 | 1.5 | 7 | 0.8 | 1.0 | 17.3 | 1.25 | 19.8 | 1.8 | 1.24 | 23.0 | 1025 | 84 |
| 12 | 7311-16C00150-W0BK8-00 | 16 | 1.5 | 7 | 0.8 | 1.0 | 17.3 | 1.25 | 19.8 | 1.8 | 1.24 | 23.0 | 1049 | 84 |
| 13 | 7311-18C00150-W0BK8-00 | 18 | 1.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1263 | 91 |
| 14 | 7311-19C00150-W0BK8-00 | 19 | 1.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1283 | 91 |
| 15 | 7311-20C00150-W0BK8-00 | 20 | 1.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1352 | 95 |
| 16 | 7311-22C00150-W0BK8-00 | 22 | 1.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1442 | 99 |
| 17 | 7311-24C00150-W0BK8-00 | 24 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1546 | 103 |
| 18 | 7311-25C00150-W0BK8-00 | 25 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1571 | 103 |
| 19 | 7311-26C00150-W0BK8-00 | 26 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1596 | 103 |
| 20 | 7311-30C00150-W0BK8-00 | 30 | 1.5 | 7 | 0.8 | 1.0 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1741 | 108 |
| 21 | 7311-32C00150-W0BK8-00 | 32 | 1.5 | 7 | 0.8 | 1.0 | 23.7 | 1.6 | 26.9 | 1.8 | 1.24 | 30.1 | 1824 | 112 |
| 22 | 7311-35C00150-W0BK8-00 | 35 | 1.5 | 7 | 0.8 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.1 | 1928 | 122 |
| 23 | 7311-36C00150-W0BK8-00 | 36 | 1.5 | 7 | 0.8 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.1 | 1962 | 122 |
| 24 | 7311-40C00150-W0BK8-00 | 40 | 1.5 | 7 | 0.8 | 1.0 | 25.7 | 1.6 | 28.9 | 1.9 | 1.32 | 32.1 | 2090 | 126 |
| 25 | 7311-50C00150-W0BK8-00 | 50 | 1.5 | 7 | 0.8 | 1.2 | 29.4 | 2.0 | 33.4 | 2.0 | 1.40 | 37.0 | 2770 | 154 |
| 26 | 7311-61C00150-W0BK8-00 | 61 | 1.5 | 7 | 0.8 | 1.2 | 31.5 | 2.0 | 35.5 | 2.1 | 1.48 | 39.3 | 3180 | 172 |
| 27 | 7311-02C00250-W0BK8-00 | 2 | 2.5 | 7 | 0.8 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 385 | 51 |
| 28 | 7311-03C00250-W0BK8-00 | 3 | 2.5 | 7 | 0.8 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 435 | 53 |
| 29 | 7311-04C00250-W0BK8-00 | 4 | 2.5 | 7 | 0.8 | 1.0 | 11.1 | 0.9 | 12.9 | 1.8 | 1.24 | 16.1 | 500 | 57 |
| 30 | 7311-05C00250-W0BK8-00 | 5 | 2.5 | 7 | 0.8 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 565 | 61 |
| 31 | 7311-06C00250-W0BK8-00 | 6 | 2.5 | 7 | 0.8 | 1.0 | 13.2 | 1.25 | 15.7 | 1.8 | 1.24 | 18.9 | 729 | 68 |
| 32 | 7311-07C00250-W0BK8-00 | 7 | 2.5 | 7 | 0.8 | 1.0 | 13.2 | 1.25 | 15.7 | 1.8 | 1.24 | 18.9 | 759 | 68 |
| 33 | 7311-08C00250-W0BK8-00 | 8 | 2.5 | 7 | 0.8 | 1.0 | 14.8 | 1.25 | 17.3 | 1.8 | 1.24 | 20.5 | 845 | 74 |

## TABLE: IEC 60332-3-24 (CAT C)

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 34 | 7311-10C00250-W0BK8-00 | 10 | 2.5 | 7 | 0.8 | 1.0 | 16.8 | 1.25 | 19.3 | 1.8 | 1.24 | 22.5 | 992 | 82 |
| 35 | 7311-12C00250-W0BK8-00 | 12 | 2.5 | 7 | 0.8 | 1.0 | 17.4 | 1.25 | 19.9 | 1.8 | 1.24 | 23.1 | 1093 | 84 |
| 36 | 7311-14C00250-W0BK8-00 | 14 | 2.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1307 | 91 |
| 37 | 7311-15C00250-W0BK8-00 | 15 | 2.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1388 | 95 |
| 38 | 7311-16C00250-W0BK8-00 | 16 | 2.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1422 | 95 |
| 39 | 7311-18C00250-W0BK8-00 | 18 | 2.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1543 | 99 |
| 40 | 7311-19C00250-W0BK8-00 | 19 | 2.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1574 | 99 |
| 41 | 7311-20C00250-W0BK8-00 | 20 | 2.5 | 7 | 0.8 | 1.0 | 21.6 | 1.6 | 24.8 | 1.8 | 1.24 | 28.0 | 1658 | 104 |
| 42 | 7311-22C00250-W0BK8-00 | 22 | 2.5 | 7 | 0.8 | 1.0 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1769 | 108 |
| 43 | 7311-24C00250-W0BK8-00 | 24 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1908 | 120 |
| 44 | 7311-25C00250-W0BK8-00 | 25 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1943 | 120 |
| 45 | 7311-26C00250-W0BK8-00 | 26 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1978 | 120 |
| 46 | 7311-30C00250-W0BK8-00 | 30 | 2.5 | 7 | 0.8 | 1.0 | 25.5 | 1.6 | 28.7 | 1.9 | 1.32 | 32.1 | 2186 | 126 |
| 47 | 7311-32C00250-W0BK8-00 | 32 | 2.5 | 7 | 0.8 | 1.0 | 26.5 | 1.6 | 29.7 | 1.9 | 1.32 | 33.1 | 2289 | 130 |
| 48 | 7311-35C00250-W0BK8-00 | 35 | 2.5 | 7 | 0.8 | 1.0 | 27.6 | 1.6 | 30.8 | 2.0 | 1.40 | 34.4 | 2458 | 142 |
| 49 | 7311-36C00250-W0BK8-00 | 36 | 2.5 | 7 | 0.8 | 1.0 | 27.6 | 1.6 | 30.8 | 2.0 | 1.40 | 34.4 | 2469 | 142 |
| 50 | 7311-40C00250-W0BK8-00 | 40 | 2.5 | 7 | 0.8 | 1.0 | 28.8 | 2.0 | 32.8 | 2.0 | 1.40 | 36.4 | 2910 | 151 |
| 51 | 7311-50C00250-W0BK8-00 | 50 | 2.5 | 7 | 0.8 | 1.2 | 32.9 | 2.0 | 36.9 | 2.2 | 1.56 | 40.9 | 3510 | 187 |
| 52 | 7311-61C00250-W0BK8-00 | 61 | 2.5 | 7 | 0.8 | 1.2 | 35.2 | 2.0 | 39.2 | 2.2 | 1.56 | 43.2 | 4038 | 198 |

## TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-W0BK8-0A | 2 | 1.5 | 7 | 0.8 | 1.0 | 8.8 | 0.9 | 10.6 | 1.8 | 1.24 | 13.8 | 345 | 47 |
| 2 | 7311-03C00150-W0BK8-0A | 3 | 1.5 | 7 | 0.8 | 1.0 | 9.3 | 0.9 | 11.1 | 1.8 | 1.24 | 14.3 | 380 | 49 |
| 3 | 7311-04C00150-W0BK8-0A | 4 | 1.5 | 7 | 0.8 | 1.0 | 10.1 | 0.9 | 11.9 | 1.8 | 1.24 | 15.1 | 430 | 51 |
| 4 | 7311-05C00150-W0BK8-0A | 5 | 1.5 | 7 | 0.8 | 1.0 | 11.0 | 0.9 | 12.8 | 1.8 | 1.24 | 16.0 | 475 | 56 |
| 5 | 7311-06C00150-W0BK8-0A | 6 | 1.5 | 7 | 0.8 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 529 | 60 |
| 6 | 7311-07C00150-W0BK8-0A | 7 | 1.5 | 7 | 0.8 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 549 | 60 |
| 7 | 7311-08C00150-W0BK8-0A | 8 | 1.5 | 7 | 0.8 | 1.0 | 13.4 | 1.25 | 15.9 | 1.8 | 1.24 | 19.1 | 715 | 68 |
| 8 | 7311-10C00150-W0BK8-0A | 10 | 1.5 | 7 | 0.8 | 1.0 | 15.1 | 1.25 | 17.6 | 1.8 | 1.24 | 20.8 | 825 | 75 |
| 9 | 7311-12C00150-W0BK8-0A | 12 | 1.5 | 7 | 0.8 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 903 | 77 |
| 10 | 7311-14C00150-W0BK8-0A | 14 | 1.5 | 7 | 0.8 | 1.0 | 16.4 | 1.25 | 18.9 | 1.8 | 1.24 | 22.1 | 967 | 80 |
| 11 | 7311-15C00150-W0BK8-0A | 15 | 1.5 | 7 | 0.8 | 1.0 | 17.3 | 1.25 | 19.8 | 1.8 | 1.24 | 23.0 | 1025 | 84 |
| 12 | 7311-16C00150-W0BK8-0A | 16 | 1.5 | 7 | 0.8 | 1.0 | 17.3 | 1.25 | 19.8 | 1.8 | 1.24 | 23.0 | 1049 | 84 |
| 13 | 7311-18C00150-W0BK8-0A | 18 | 1.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1263 | 91 |
| 14 | 7311-19C00150-W0BK8-0A | 19 | 1.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1283 | 91 |
| 15 | 7311-20C00150-W0BK8-0A | 20 | 1.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1352 | 95 |
| 16 | 7311-22C00150-W0BK8-0A | 22 | 1.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1442 | 99 |
| 17 | 7311-24C00150-W0BK8-0A | 24 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1546 | 103 |
| 18 | 7311-25C00150-W0BK8-0A | 25 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1571 | 103 |
| 19 | 7311-26C00150-W0BK8-0A | 26 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1596 | 103 |
| 20 | 7311-30C00150-W0BK8-0A | 30 | 1.5 | 7 | 0.8 | 1.0 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1741 | 108 |
| 21 | 7311-32C00150-W0BK8-0A | 32 | 1.5 | 7 | 0.8 | 1.0 | 23.7 | 1.6 | 26.9 | 1.8 | 1.24 | 30.1 | 1824 | 112 |
| 22 | 7311-35C00150-W0BK8-0A | 35 | 1.5 | 7 | 0.8 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.1 | 1928 | 122 |
| 23 | 7311-36C00150-W0BK8-0A | 36 | 1.5 | 7 | 0.8 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.1 | 1962 | 122 |
| 24 | 7311-40C00150-W0BK8-0A | 40 | 1.5 | 7 | 0.8 | 1.0 | 25.7 | 1.6 | 28.9 | 1.9 | 1.32 | 32.1 | 2090 | 126 |
| 25 | 7311-50C00150-W0BK8-0A | 50 | 1.5 | 7 | 0.8 | 1.2 | 29.4 | 2.0 | 33.4 | 2.0 | 1.40 | 37.0 | 2770 | 154 |
| 26 | 7311-61C00150-W0BK8-0A | 61 | 1.5 | 7 | 0.8 | 1.2 | 31.5 | 2.0 | 35.5 | 2.1 | 1.48 | 39.3 | 3180 | 172 |
| 27 | 7311-02C00250-W0BK8-0A | 2 | 2.5 | 7 | 0.8 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 385 | 51 |
| 28 | 7311-03C00250-W0BK8-0A | 3 | 2.5 | 7 | 0.8 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 435 | 53 |
| 29 | 7311-04C00250-W0BK8-0A | 4 | 2.5 | 7 | 0.8 | 1.0 | 11.1 | 0.9 | 12.9 | 1.8 | 1.24 | 16.1 | 500 | 57 |
| 30 | 7311-05C00250-W0BK8-0A | 5 | 2.5 | 7 | 0.8 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 565 | 61 |
| 31 | 7311-06C00250-W0BK8-0A | 6 | 2.5 | 7 | 0.8 | 1.0 | 13.2 | 1.25 | 15.7 | 1.8 | 1.24 | 18.9 | 729 | 68 |
| 32 | 7311-07C00250-W0BK8-0A | 7 | 2.5 | 7 | 0.8 | 1.0 | 13.2 | 1.25 | 15.7 | 1.8 | 1.24 | 18.9 | 759 | 68 |
| 33 | 7311-08C00250-W0BK8-0A | 8 | 2.5 | 7 | 0.8 | 1.0 | 14.8 | 1.25 | 17.3 | 1.8 | 1.24 | 20.5 | 845 | 74 |

*Non-Compacted circular conductor, all other compacted circular conductor.

## TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 34 | 7311-10C00250-W0BK8-0A | 10 | 2.5 | 7 | 0.8 | 1.0 | 16.8 | 1.25 | 19.3 | 1.8 | 1.24 | 22.5 | 992 | 82 |
| 35 | 7311-12C00250-W0BK8-0A | 12 | 2.5 | 7 | 0.8 | 1.0 | 17.4 | 1.25 | 19.9 | 1.8 | 1.24 | 23.1 | 1093 | 84 |
| 36 | 7311-14C00250-W0BK8-0A | 14 | 2.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1307 | 91 |
| 37 | 7311-15C00250-W0BK8-0A | 15 | 2.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1388 | 95 |
| 38 | 7311-16C00250-W0BK8-0A | 16 | 2.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1422 | 95 |
| 39 | 7311-18C00250-W0BK8-0A | 18 | 2.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1543 | 99 |
| 40 | 7311-19C00250-W0BK8-0A | 19 | 2.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1574 | 99 |
| 41 | 7311-20C00250-W0BK8-0A | 20 | 2.5 | 7 | 0.8 | 1.0 | 21.6 | 1.6 | 24.8 | 1.8 | 1.24 | 28.0 | 1658 | 104 |
| 42 | 7311-22C00250-W0BK8-0A | 22 | 2.5 | 7 | 0.8 | 1.0 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1769 | 108 |
| 43 | 7311-24C00250-W0BK8-0A | 24 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1908 | 120 |
| 44 | 7311-25C00250-W0BK8-0A | 25 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1943 | 120 |
| 45 | 7311-26C00250-W0BK8-0A | 26 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1978 | 120 |
| 46 | 7311-30C00250-W0BK8-0A | 30 | 2.5 | 7 | 0.8 | 1.0 | 25.5 | 1.6 | 28.7 | 1.9 | 1.32 | 32.1 | 2186 | 126 |
| 47 | 7311-32C00250-W0BK8-0A | 32 | 2.5 | 7 | 0.8 | 1.0 | 26.5 | 1.6 | 29.7 | 1.9 | 1.32 | 33.1 | 2289 | 130 |
| 48 | 7311-35C00250-W0BK8-0A | 35 | 2.5 | 7 | 0.8 | 1.0 | 27.6 | 1.6 | 30.8 | 2.0 | 1.40 | 34.4 | 2458 | 142 |
| 49 | 7311-36C00250-W0BK8-0A | 36 | 2.5 | 7 | 0.8 | 1.0 | 27.6 | 1.6 | 30.8 | 2.0 | 1.40 | 34.4 | 2469 | 142 |
| 50 | 7311-40C00250-W0BK8-0A | 40 | 2.5 | 7 | 0.8 | 1.0 | 28.8 | 2.0 | 32.8 | 2.0 | 1.40 | 36.4 | 2910 | 151 |
| 51 | 7311-50C00250-W0BK8-0A | 50 | 2.5 | 7 | 0.8 | 1.2 | 32.9 | 2.0 | 36.9 | 2.2 | 1.56 | 40.9 | 3510 | 187 |
| 52 | 7311-61C00250-W0BK8-0A | 61 | 2.5 | 7 | 0.8 | 1.2 | 35.2 | 2.0 | 39.2 | 2.2 | 1.56 | 43.2 | 4038 | 198 |

**TABLE: IEC 60332-1-2**

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7311-02C00150-W0BK8-NI | 2 | 1.5 | 7 | 0.8 | 1.0 | 8.8 | 0.9 | 10.6 | 1.8 | 1.24 | 13.8 | 345 | 47 |
| 2 | 7311-03C00150-W0BK8-NI | 3 | 1.5 | 7 | 0.8 | 1.0 | 9.3 | 0.9 | 11.1 | 1.8 | 1.24 | 14.3 | 380 | 49 |
| 3 | 7311-04C00150-W0BK8-NI | 4 | 1.5 | 7 | 0.8 | 1.0 | 10.1 | 0.9 | 11.9 | 1.8 | 1.24 | 15.1 | 430 | 51 |
| 4 | 7311-05C00150-W0BK8-NI | 5 | 1.5 | 7 | 0.8 | 1.0 | 11.0 | 0.9 | 12.8 | 1.8 | 1.24 | 16.0 | 475 | 56 |
| 5 | 7311-06C00150-W0BK8-NI | 6 | 1.5 | 7 | 0.8 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 529 | 60 |
| 6 | 7311-07C00150-W0BK8-NI | 7 | 1.5 | 7 | 0.8 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 549 | 60 |
| 7 | 7311-08C00150-W0BK8-NI | 8 | 1.5 | 7 | 0.8 | 1.0 | 13.4 | 1.25 | 15.9 | 1.8 | 1.24 | 19.1 | 715 | 68 |
| 8 | 7311-10C00150-W0BK8-NI | 10 | 1.5 | 7 | 0.8 | 1.0 | 15.1 | 1.25 | 17.6 | 1.8 | 1.24 | 20.8 | 825 | 75 |
| 9 | 7311-12C00150-W0BK8-NI | 12 | 1.5 | 7 | 0.8 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 903 | 77 |
| 10 | 7311-14C00150-W0BK8-NI | 14 | 1.5 | 7 | 0.8 | 1.0 | 16.4 | 1.25 | 18.9 | 1.8 | 1.24 | 22.1 | 967 | 80 |
| 11 | 7311-15C00150-W0BK8-NI | 15 | 1.5 | 7 | 0.8 | 1.0 | 17.3 | 1.25 | 19.8 | 1.8 | 1.24 | 23.0 | 1025 | 84 |
| 12 | 7311-16C00150-W0BK8-NI | 16 | 1.5 | 7 | 0.8 | 1.0 | 17.3 | 1.25 | 19.8 | 1.8 | 1.24 | 23.0 | 1049 | 84 |
| 13 | 7311-18C00150-W0BK8-NI | 18 | 1.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1263 | 91 |
| 14 | 7311-19C00150-W0BK8-NI | 19 | 1.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1283 | 91 |
| 15 | 7311-20C00150-W0BK8-NI | 20 | 1.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1352 | 95 |
| 16 | 7311-22C00150-W0BK8-NI | 22 | 1.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1442 | 99 |
| 17 | 7311-24C00150-W0BK8-NI | 24 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1546 | 103 |
| 18 | 7311-25C00150-W0BK8-NI | 25 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1571 | 103 |
| 19 | 7311-26C00150-W0BK8-NI | 26 | 1.5 | 7 | 0.8 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 1596 | 103 |
| 20 | 7311-30C00150-W0BK8-NI | 30 | 1.5 | 7 | 0.8 | 1.0 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1741 | 108 |
| 21 | 7311-32C00150-W0BK8-NI | 32 | 1.5 | 7 | 0.8 | 1.0 | 23.7 | 1.6 | 26.9 | 1.8 | 1.24 | 30.1 | 1824 | 112 |
| 22 | 7311-35C00150-W0BK8-NI | 35 | 1.5 | 7 | 0.8 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.1 | 1928 | 122 |
| 23 | 7311-36C00150-W0BK8-NI | 36 | 1.5 | 7 | 0.8 | 1.0 | 24.7 | 1.6 | 27.9 | 1.9 | 1.32 | 31.1 | 1962 | 122 |
| 24 | 7311-40C00150-W0BK8-NI | 40 | 1.5 | 7 | 0.8 | 1.0 | 25.7 | 1.6 | 28.9 | 1.9 | 1.32 | 32.1 | 2090 | 126 |
| 25 | 7311-50C00150-W0BK8-NI | 50 | 1.5 | 7 | 0.8 | 1.2 | 29.4 | 2.0 | 33.4 | 2.0 | 1.40 | 37.0 | 2770 | 154 |
| 26 | 7311-61C00150-W0BK8-NI | 61 | 1.5 | 7 | 0.8 | 1.2 | 31.5 | 2.0 | 35.5 | 2.1 | 1.48 | 39.3 | 3180 | 172 |
| 27 | 7311-02C00250-W0BK8-NI | 2 | 2.5 | 7 | 0.8 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 385 | 51 |
| 28 | 7311-03C00250-W0BK8-NI | 3 | 2.5 | 7 | 0.8 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 435 | 53 |
| 29 | 7311-04C00250-W0BK8-NI | 4 | 2.5 | 7 | 0.8 | 1.0 | 11.1 | 0.9 | 12.9 | 1.8 | 1.24 | 16.1 | 500 | 57 |
| 30 | 7311-05C00250-W0BK8-NI | 5 | 2.5 | 7 | 0.8 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 565 | 61 |
| 31 | 7311-06C00250-W0BK8-NI | 6 | 2.5 | 7 | 0.8 | 1.0 | 13.2 | 1.25 | 15.7 | 1.8 | 1.24 | 18.9 | 729 | 68 |
| 32 | 7311-07C00250-W0BK8-NI | 7 | 2.5 | 7 | 0.8 | 1.0 | 13.2 | 1.25 | 15.7 | 1.8 | 1.24 | 18.9 | 759 | 68 |
| 33 | 7311-08C00250-W0BK8-NI | 8 | 2.5 | 7 | 0.8 | 1.0 | 14.8 | 1.25 | 17.3 | 1.8 | 1.24 | 20.5 | 845 | 74 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 34 | 7311-10C00250-W0BK8-NI | 10 | 2.5 | 7 | 0.8 | 1.0 | 16.8 | 1.25 | 19.3 | 1.8 | 1.24 | 22.5 | 992 | 82 |
| 35 | 7311-12C00250-W0BK8-NI | 12 | 2.5 | 7 | 0.8 | 1.0 | 17.4 | 1.25 | 19.9 | 1.8 | 1.24 | 23.1 | 1093 | 84 |
| 36 | 7311-14C00250-W0BK8-NI | 14 | 2.5 | 7 | 0.8 | 1.0 | 18.3 | 1.6 | 21.5 | 1.8 | 1.24 | 24.7 | 1307 | 91 |
| 37 | 7311-15C00250-W0BK8-NI | 15 | 2.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1388 | 95 |
| 38 | 7311-16C00250-W0BK8-NI | 16 | 2.5 | 7 | 0.8 | 1.0 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1422 | 95 |
| 39 | 7311-18C00250-W0BK8-NI | 18 | 2.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1543 | 99 |
| 40 | 7311-19C00250-W0BK8-NI | 19 | 2.5 | 7 | 0.8 | 1.0 | 20.4 | 1.6 | 23.6 | 1.8 | 1.24 | 26.8 | 1574 | 99 |
| 41 | 7311-20C00250-W0BK8-NI | 20 | 2.5 | 7 | 0.8 | 1.0 | 21.6 | 1.6 | 24.8 | 1.8 | 1.24 | 28.0 | 1658 | 104 |
| 42 | 7311-22C00250-W0BK8-NI | 22 | 2.5 | 7 | 0.8 | 1.0 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1769 | 108 |
| 43 | 7311-24C00250-W0BK8-NI | 24 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1908 | 120 |
| 44 | 7311-25C00250-W0BK8-NI | 25 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1943 | 120 |
| 45 | 7311-26C00250-W0BK8-NI | 26 | 2.5 | 7 | 0.8 | 1.0 | 24.0 | 1.6 | 27.2 | 1.9 | 1.32 | 30.6 | 1978 | 120 |
| 46 | 7311-30C00250-W0BK8-NI | 30 | 2.5 | 7 | 0.8 | 1.0 | 25.5 | 1.6 | 28.7 | 1.9 | 1.32 | 32.1 | 2186 | 126 |
| 47 | 7311-32C00250-W0BK8-NI | 32 | 2.5 | 7 | 0.8 | 1.0 | 26.5 | 1.6 | 29.7 | 1.9 | 1.32 | 33.1 | 2289 | 130 |
| 48 | 7311-35C00250-W0BK8-NI | 35 | 2.5 | 7 | 0.8 | 1.0 | 27.6 | 1.6 | 30.8 | 2.0 | 1.40 | 34.4 | 2458 | 142 |
| 49 | 7311-36C00250-W0BK8-NI | 36 | 2.5 | 7 | 0.8 | 1.0 | 27.6 | 1.6 | 30.8 | 2.0 | 1.40 | 34.4 | 2469 | 142 |
| 50 | 7311-40C00250-W0BK8-NI | 40 | 2.5 | 7 | 0.8 | 1.0 | 28.8 | 2.0 | 32.8 | 2.0 | 1.40 | 36.4 | 2910 | 151 |
| 51 | 7311-50C00250-W0BK8-NI | 50 | 2.5 | 7 | 0.8 | 1.2 | 32.9 | 2.0 | 36.9 | 2.2 | 1.56 | 40.9 | 3510 | 187 |
| 52 | 7311-61C00250-W0BK8-NI | 61 | 2.5 | 7 | 0.8 | 1.2 | 35.2 | 2.0 | 39.2 | 2.2 | 1.56 | 43.2 | 4038 | 198 |

# LV POWER, SINGLE CORE, ARMOURED CABLE

CU/XLPE/PVC/AWA/PVC

SPECIFICATION: IEC 60502-1

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 1C: Black |
| Inner Sheath | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of Aluminium wire armor is applied over the inner sheath. |
| Outer Sheath** | Extruded Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example – CU/XLPE/AWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
***Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76D4-01C02500-A0BK8-00 | 1C | 25 | 7 | 0.9 | 1.0 | 9.9 | 1.6 | 13.1 | 1.4 | 0.92 | 15.7 | 480 | 44 |
| 2 | 76D4-01C03500-A0BK8-00 | 1C | 35 | 7 | 0.9 | 1.0 | 11.0 | 1.6 | 14.2 | 1.4 | 0.92 | 16.8 | 604 | 47 |
| 3 | 76D4-01C05000-A0BK8-00 | 1C | 50 | 19 | 1.0 | 1.0 | 12.5 | 1.6 | 15.7 | 1.5 | 1.00 | 18.5 | 760 | 56 |
| 4 | 76D4-01C07000-A0BK8-00 | 1C | 70 | 19 | 1.1 | 1.0 | 14.3 | 1.6 | 17.5 | 1.5 | 1.00 | 20.3 | 994 | 62 |
| 5 | 76D4-01C09500-A0BK8-00 | 1C | 95 | 19 | 1.1 | 1.0 | 15.9 | 1.6 | 19.1 | 1.6 | 1.08 | 22.1 | 1250 | 72 |
| 6 | 76D4-01C12000-A0BK8-00 | 1C | 120 | 19 | 1.2 | 1.0 | 17.5 | 1.6 | 20.7 | 1.7 | 1.16 | 23.7 | 1530 | 82 |
| 7 | 76D4-01C15000-A0BK8-00 | 1C | 150 | 19 | 1.4 | 1.0 | 19.5 | 1.6 | 22.7 | 1.7 | 1.16 | 25.7 | 1839 | 90 |
| 8 | 76D4-01C18500-A0BK8-00 | 1C | 185 | 37 | 1.6 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 2215 | 103 |
| 9 | 76D4-01C24000-A0BK8-00 | 1C | 240 | 37 | 1.7 | 1.0 | 23.9 | 1.6 | 27.1 | 1.9 | 1.32 | 30.5 | 2805 | 119 |
| 10 | 76D4-01C30000-A0BK8-00 | 1C | 300 | 37 | 1.8 | 1.0 | 26.2 | 1.6 | 29.4 | 2.0 | 1.40 | 33.0 | 3430 | 136 |
| 11 | 76D4-01C40000-A0BK8-00 | 1C | 400 | 61 | 2.0 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 4435 | 166 |
| 12 | 76D4-01C50000-A0BK8-00 | 1C | 500 | 61 | 2.2 | 1.2 | 33.4 | 2.0 | 37.4 | 2.2 | 1.56 | 41.4 | 5515 | 190 |
| 13 | 76D4-01C63000-A0BK8-00 | 1C | 630 | 61 | 2.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.3 | 1.64 | 45.5 | 6975 | 218 |
| 14 | 76D4-01C80000-A0BK8-00 | 1C | 800 | 61 | 2.6 | 1.4 | 41.9 | 2.5 | 46.9 | 2.5 | 1.80 | 51.5 | 9150 | 269 |
| 15 | 76D4-1C100000-A0BK8-00 | 1C | 1000 | 61 | 2.8 | 1.4 | 46.9 | 2.5 | 51.9 | 2.7 | 1.96 | 56.9 | 11350 | 322 |
| 16 | 7614-01C80000-A0BK8-00* | 1C | 800 | 91 | 2.6 | 1.4 | 45.3 | 2.5 | 50.3 | 2.5 | 1.80 | 54.9 | 9300 | 288 |
| 17 | 7614-1C100000-A0BK8-00* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.7 | 1.96 | 60.2 | 11500 | 341 |
| 18 | 7614-1C100000-A0BK8-00* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.7 | 1.96 | 60.2 | 11500 | 341 |

*Non-Compacted circular conductor, all other compacted circular conductor.

## TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)

CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76D4-01C02500-A0BK8-0A | 1C | 25 | 7 | 0.9 | 1.0 | 9.9 | 1.6 | 13.1 | 1.4 | 0.92 | 15.7 | 480 | 44 |
| 2 | 76D4-01C03500-A0BK8-0A | 1C | 35 | 7 | 0.9 | 1.0 | 11.0 | 1.6 | 14.2 | 1.4 | 0.92 | 16.8 | 604 | 47 |
| 3 | 76D4-01C05000-A0BK8-0A | 1C | 50 | 19 | 1.0 | 1.0 | 12.5 | 1.6 | 15.7 | 1.5 | 1.00 | 18.5 | 760 | 56 |
| 4 | 76D4-01C07000-A0BK8-0A | 1C | 70 | 19 | 1.1 | 1.0 | 14.3 | 1.6 | 17.5 | 1.5 | 1.00 | 20.3 | 994 | 62 |
| 5 | 76D4-01C09500-A0BK8-0A | 1C | 95 | 19 | 1.1 | 1.0 | 15.9 | 1.6 | 19.1 | 1.6 | 1.08 | 22.1 | 1250 | 72 |
| 6 | 76D4-01C12000-A0BK8-0A | 1C | 120 | 19 | 1.2 | 1.0 | 17.5 | 1.6 | 20.7 | 1.7 | 1.16 | 23.7 | 1530 | 82 |
| 7 | 76D4-01C15000-A0BK8-0A | 1C | 150 | 19 | 1.4 | 1.0 | 19.5 | 1.6 | 22.7 | 1.7 | 1.16 | 25.7 | 1839 | 90 |
| 8 | 76D4-01C18500-A0BK8-0A | 1C | 185 | 37 | 1.6 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 2215 | 103 |
| 9 | 76D4-01C24000-A0BK8-0A | 1C | 240 | 37 | 1.7 | 1.0 | 23.9 | 1.6 | 27.1 | 1.9 | 1.32 | 30.5 | 2805 | 119 |
| 10 | 76D4-01C30000-A0BK8-0A | 1C | 300 | 37 | 1.8 | 1.0 | 26.2 | 1.6 | 29.4 | 2.0 | 1.40 | 33.0 | 3430 | 136 |
| 11 | 76D4-01C40000-A0BK8-0A | 1C | 400 | 61 | 2.0 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 4435 | 166 |
| 12 | 76D4-01C50000-A0BK8-0A | 1C | 500 | 61 | 2.2 | 1.2 | 33.4 | 2.0 | 37.4 | 2.2 | 1.56 | 41.4 | 5515 | 190 |
| 13 | 76D4-01C63000-A0BK8-0A | 1C | 630 | 61 | 2.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.3 | 1.64 | 45.5 | 6975 | 218 |
| 14 | 76D4-01C80000-A0BK8-0A | 1C | 800 | 61 | 2.6 | 1.4 | 41.9 | 2.5 | 46.9 | 2.5 | 1.80 | 51.5 | 9150 | 269 |
| 15 | 76D4-1C100000-A0BK8-0A | 1C | 1000 | 61 | 2.8 | 1.4 | 46.9 | 2.5 | 51.9 | 2.7 | 1.96 | 56.9 | 11350 | 322 |
| 16 | 7614-01C80000-A0BK8-0A* | 1C | 800 | 91 | 2.6 | 1.4 | 45.3 | 2.5 | 50.3 | 2.5 | 1.80 | 54.9 | 9300 | 288 |
| 17 | 7614-1C100000-A0BK8-0A* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.7 | 1.96 | 60.2 | 11500 | 341 |
| 18 | 7614-1C100000-A0BK8-0A* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.7 | 1.96 | 60.2 | 11500 | 341 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:

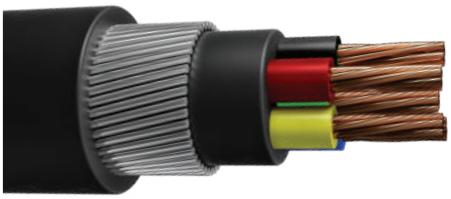
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76D4-01C02500-A0BK8-NI | 1C | 25 | 7 | 0.9 | 1.0 | 9.9 | 1.6 | 13.1 | 1.4 | 0.92 | 15.7 | 480 | 44 |
| 2 | 76D4-01C03500-A0BK8-NI | 1C | 35 | 7 | 0.9 | 1.0 | 11.0 | 1.6 | 14.2 | 1.4 | 0.92 | 16.8 | 604 | 47 |
| 3 | 76D4-01C05000-A0BK8-NI | 1C | 50 | 19 | 1.0 | 1.0 | 12.5 | 1.6 | 15.7 | 1.5 | 1.00 | 18.5 | 760 | 56 |
| 4 | 76D4-01C07000-A0BK8-NI | 1C | 70 | 19 | 1.1 | 1.0 | 14.3 | 1.6 | 17.5 | 1.5 | 1.00 | 20.3 | 994 | 62 |
| 5 | 76D4-01C09500-A0BK8-NI | 1C | 95 | 19 | 1.1 | 1.0 | 15.9 | 1.6 | 19.1 | 1.6 | 1.08 | 22.1 | 1250 | 72 |
| 6 | 76D4-01C12000-A0BK8-NI | 1C | 120 | 19 | 1.2 | 1.0 | 17.5 | 1.6 | 20.7 | 1.7 | 1.16 | 23.7 | 1530 | 82 |
| 7 | 76D4-01C15000-A0BK8-NI | 1C | 150 | 19 | 1.4 | 1.0 | 19.5 | 1.6 | 22.7 | 1.7 | 1.16 | 25.7 | 1839 | 90 |
| 8 | 76D4-01C18500-A0BK8-NI | 1C | 185 | 37 | 1.6 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 2215 | 103 |
| 9 | 76D4-01C24000-A0BK8-NI | 1C | 240 | 37 | 1.7 | 1.0 | 23.9 | 1.6 | 27.1 | 1.9 | 1.32 | 30.5 | 2805 | 119 |
| 10 | 76D4-01C30000-A0BK8-NI | 1C | 300 | 37 | 1.8 | 1.0 | 26.2 | 1.6 | 29.4 | 2.0 | 1.40 | 33.0 | 3430 | 136 |
| 11 | 76D4-01C40000-A0BK8-NI | 1C | 400 | 61 | 2.0 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 4435 | 166 |
| 12 | 76D4-01C50000-A0BK8-NI | 1C | 500 | 61 | 2.2 | 1.2 | 33.4 | 2.0 | 37.4 | 2.2 | 1.56 | 41.4 | 5515 | 190 |
| 13 | 76D4-01C63000-A0BK8-NI | 1C | 630 | 61 | 2.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.3 | 1.64 | 45.5 | 6975 | 218 |
| 14 | 76D4-01C80000-A0BK8-NI | 1C | 800 | 61 | 2.6 | 1.4 | 41.9 | 2.5 | 46.9 | 2.5 | 1.80 | 51.5 | 9150 | 269 |
| 15 | 76D4-1C100000-A0BK8-NI | 1C | 1000 | 61 | 2.8 | 1.4 | 46.9 | 2.5 | 51.9 | 2.7 | 1.96 | 56.9 | 11350 | 322 |
| 16 | 7614-01C80000-A0BK8-NI* | 1C | 800 | 91 | 2.6 | 1.4 | 45.3 | 2.5 | 50.3 | 2.5 | 1.80 | 54.9 | 9300 | 288 |
| 17 | 7614-1C100000-A0BK8-NI* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.7 | 1.96 | 60.2 | 11500 | 341 |
| 18 | 7614-1C100000-A0BK8-NI* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.7 | 1.96 | 60.2 | 11500 | 341 |

*Non-Compacted circular conductor, all other compacted circular conductor.

# LV POWER, MULTI CORE, ARMOURED CABLE

CU/XLPE/PVC/GSWA/PVC

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

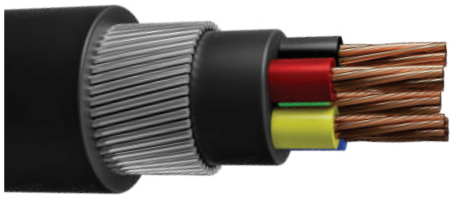
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/GSWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
Cables with Two/Three/Four and half core is available on request.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:



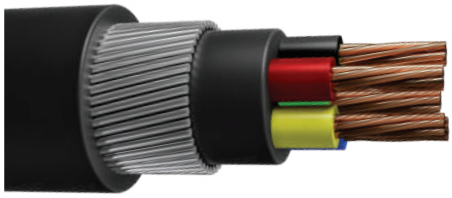
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-00* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.9 | 10.2 | 1.8 | 1.24 | 13.4 | 325 | 46 |
| 2 | 7614-02C00250-W0BK8-00* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.9 | 11.0 | 1.8 | 1.24 | 14.2 | 365 | 49 |
| 3 | 7614-02C00400-W0BK8-00* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 420 | 53 |
| 4 | 7614-02C00600-W0BK8-00* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.9 | 13.2 | 1.8 | 1.24 | 16.4 | 500 | 58 |
| 5 | 7614-02C01000-W0BK8-00* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 730 | 68 |
| 6 | 76D4-02C01600-W0BK8-00 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 875 | 73 |
| 7 | 76D4-02C02500-W0BK8-00 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 1.6 | 21.0 | 1.8 | 1.24 | 24.2 | 1280 | 89 |
| 8 | 76D4-02C03500-W0BK8-00 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.6 | 23.2 | 1.8 | 1.24 | 26.4 | 1560 | 97 |
| 9 | 76D4-02C05000-W0BK8-00 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1935 | 110 |
| 10 | 76D4-02C07000-W0BK8-00 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 1.6 | 29.7 | 2.0 | 1.40 | 33.3 | 2495 | 138 |
| 11 | 76D4-02C09500-W0BK8-00 | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3385 | 166 |
| 12 | 76D4-02C12000-W0BK8-00 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.0 | 37.5 | 2.2 | 1.56 | 41.5 | 4035 | 190 |
| 13 | 76D4-02C15000-W0BK8-00 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.3 | 1.64 | 45.5 | 4795 | 218 |
| 14 | 76D4-02C18500-W0BK8-00 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 2.5 | 46.7 | 2.5 | 1.80 | 51.3 | 6135 | 268 |
| 15 | 76D4-02C24000-W0BK8-00 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 2.5 | 51.6 | 2.7 | 1.96 | 56.6 | 7535 | 320 |
| 16 | 76D4-02C30000-W0BK8-00 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 2.5 | 56.7 | 2.8 | 2.04 | 61.9 | 9125 | 364 |
| 17 | 76D4-02C40000-W0BK8-00 | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 2.5 | 63.8 | 3.1 | 2.28 | 69.6 | 11165 | 453 |
| 18 | 7614-03C00150-W0BK8-00* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.9 | 10.7 | 1.8 | 1.24 | 13.9 | 355 | 48 |
| 19 | 7614-03C00250-W0BK8-00* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.9 | 11.6 | 1.8 | 1.24 | 14.8 | 410 | 51 |
| 20 | 7614-03C00400-W0BK8-00* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.9 | 12.7 | 1.8 | 1.24 | 15.9 | 485 | 56 |
| 21 | 7614-03C00600-W0BK8-00* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 585 | 61 |
| 22 | 7614-03C01000-W0BK8-00* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 865 | 72 |
| 23 | 76D4-03C01600-W0BK8-00 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 1060 | 77 |
| 24 | 76D4-03C02500-W0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.6 | 22.2 | 1.8 | 1.24 | 25.4 | 1565 | 93 |

**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 25 | 76D4-03C03500-W0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.6 | 24.6 | 1.8 | 1.24 | 27.8 | 1950 | 103 |
| 26 | 7614-04C00150-W0BK8-00* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 390 | 51 |
| 27 | 7614-04C00250-W0BK8-00* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 465 | 55 |
| 28 | 7614-04C00400-W0BK8-00* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 555 | 60 |
| 29 | 7614-04C00600-W0BK8-00* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 775 | 68 |
| 30 | 7614-04C01000-W0BK8-00* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 1015 | 77 |
| 31 | 76D4-04C01600-W0BK8-00 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 1.6 | 20.4 | 1.8 | 1.24 | 23.6 | 1390 | 86 |
| 32 | 7614-05C00150-W0BK8-00-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.9 | 12.3 | 1.8 | 1.24 | 15.5 | 440 | 54 |
| 33 | 7614-05C00250-W0BK8-00-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 16.6 | 520 | 59 |
| 34 | 7614-05C00400-W0BK8-00-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 1.25 | 15.5 | 1.8 | 1.24 | 18.7 | 725 | 67 |
| 35 | 7614-05C00600-W0BK8-00-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 885 | 73 |
| 36 | 7614-05C01000-W0BK8-00-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 1.25 | 19.6 | 1.8 | 1.24 | 22.8 | 1180 | 83 |
| 37 | 76D4-05C01600-W0BK8-00-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.6 | 22.1 | 1.8 | 1.24 | 25.3 | 1615 | 93 |
| 38 | 76D4-05C02500-W0BK8-00-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.6 | 26.4 | 1.8 | 1.24 | 29.6 | 2230 | 110 |
| 39 | 76D4-05C03500-W0BK8-00-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2825 | 129 |
| 40 | 76D4-05C05000-W0BK8-00-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 34.7 | 2.1 | 1.48 | 38.5 | 3910 | 168 |
| 41 | 76D4-05C07000-W0BK8-00-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.0 | 39.4 | 2.3 | 1.64 | 43.6 | 5170 | 209 |
| 42 | 76D4-05C09500-W0BK8-00-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 2.5 | 45.2 | 2.5 | 1.80 | 49.8 | 6985 | 260 |
| 43 | 76D4-05C12000-W0BK8-00-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 2.5 | 49.6 | 2.6 | 1.88 | 54.4 | 8465 | 296 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
CIRCULAR CONDUCTOR:



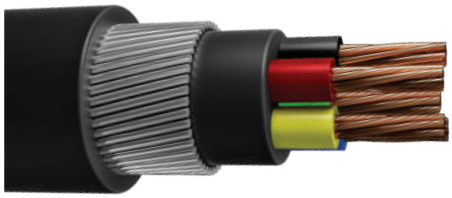
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-0A* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.9 | 10.2 | 1.8 | 1.24 | 13.4 | 325 | 46 |
| 2 | 7614-02C00250-W0BK8-0A* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.9 | 11.0 | 1.8 | 1.24 | 14.2 | 365 | 49 |
| 3 | 7614-02C00400-W0BK8-0A* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 420 | 53 |
| 4 | 7614-02C00600-W0BK8-0A* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.9 | 13.2 | 1.8 | 1.24 | 16.4 | 500 | 58 |
| 5 | 7614-02C01000-W0BK8-0A* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 730 | 68 |
| 6 | 76D4-02C01600-W0BK8-0A | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 875 | 73 |
| 7 | 76D4-02C02500-W0BK8-0A | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 1.6 | 21.0 | 1.8 | 1.24 | 24.2 | 1280 | 89 |
| 8 | 76D4-02C03500-W0BK8-0A | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.6 | 23.2 | 1.8 | 1.24 | 26.4 | 1560 | 97 |
| 9 | 76D4-02C05000-W0BK8-0A | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1935 | 110 |
| 10 | 76D4-02C07000-W0BK8-0A | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 1.6 | 29.7 | 2.0 | 1.40 | 33.3 | 2495 | 138 |
| 11 | 76D4-02C09500-W0BK8-0A | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3385 | 166 |
| 12 | 76D4-02C12000-W0BK8-0A | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.0 | 37.5 | 2.2 | 1.56 | 41.5 | 4035 | 190 |
| 13 | 76D4-02C15000-W0BK8-0A | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.3 | 1.64 | 45.5 | 4795 | 218 |
| 14 | 76D4-02C18500-W0BK8-0A | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 2.5 | 46.7 | 2.5 | 1.80 | 51.3 | 6135 | 268 |
| 15 | 76D4-02C24000-W0BK8-0A | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 2.5 | 51.6 | 2.7 | 1.96 | 56.6 | 7535 | 320 |
| 16 | 76D4-02C30000-W0BK8-0A | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 2.5 | 56.7 | 2.8 | 2.04 | 61.9 | 9125 | 364 |
| 17 | 76D4-02C40000-W0BK8-0A | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 2.5 | 63.8 | 3.1 | 2.28 | 69.6 | 11165 | 453 |
| 18 | 7614-03C00150-W0BK8-0A* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.9 | 10.7 | 1.8 | 1.24 | 13.9 | 355 | 48 |
| 19 | 7614-03C00250-W0BK8-0A* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.9 | 11.6 | 1.8 | 1.24 | 14.8 | 410 | 51 |
| 20 | 7614-03C00400-W0BK8-0A* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.9 | 12.7 | 1.8 | 1.24 | 15.9 | 485 | 56 |
| 21 | 7614-03C00600-W0BK8-0A* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 585 | 61 |
| 22 | 7614-03C01000-W0BK8-0A* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 865 | 72 |
| 23 | 76D4-03C01600-W0BK8-0A | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 1060 | 77 |
| 24 | 76D4-03C02500-W0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.6 | 22.2 | 1.8 | 1.24 | 25.4 | 1565 | 93 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 25 | 76D4-03C03500-W0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.6 | 24.6 | 1.8 | 1.24 | 27.8 | 1950 | 103 |
| 26 | 7614-04C00150-W0BK8-0A* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 390 | 51 |
| 27 | 7614-04C00250-W0BK8-0A* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 465 | 55 |
| 28 | 7614-04C00400-W0BK8-0A* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 555 | 60 |
| 29 | 7614-04C00600-W0BK8-0A* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 775 | 68 |
| 30 | 7614-04C01000-W0BK8-0A* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 1015 | 77 |
| 31 | 76D4-04C01600-W0BK8-0A | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 1.6 | 20.4 | 1.8 | 1.24 | 23.6 | 1390 | 86 |
| 32 | 7614-05C00150-W0BK8-0A-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.9 | 12.3 | 1.8 | 1.24 | 15.5 | 440 | 54 |
| 33 | 7614-05C00250-W0BK8-0A-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 16.6 | 520 | 59 |
| 34 | 7614-05C00400-W0BK8-0A-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 1.25 | 15.5 | 1.8 | 1.24 | 18.7 | 725 | 67 |
| 35 | 7614-05C00600-W0BK8-0A-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 885 | 73 |
| 36 | 7614-05C01000-W0BK8-0A-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 1.25 | 19.6 | 1.8 | 1.24 | 22.8 | 1180 | 83 |
| 37 | 76D4-05C01600-W0BK8-0A-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.6 | 22.1 | 1.8 | 1.24 | 25.3 | 1615 | 93 |
| 38 | 76D4-05C02500-W0BK8-0A-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.6 | 26.4 | 1.8 | 1.24 | 29.6 | 2230 | 110 |
| 39 | 76D4-05C03500-W0BK8-0A-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2825 | 129 |
| 40 | 76D4-05C05000-W0BK8-0A-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 34.7 | 2.1 | 1.48 | 38.5 | 3910 | 168 |
| 41 | 76D4-05C07000-W0BK8-0A-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.0 | 39.4 | 2.3 | 1.64 | 43.6 | 5170 | 209 |
| 42 | 76D4-05C09500-W0BK8-0A-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 2.5 | 45.2 | 2.5 | 1.80 | 49.8 | 6985 | 260 |
| 43 | 76D4-05C12000-W0BK8-0A-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 2.5 | 49.6 | 2.6 | 1.88 | 54.4 | 8465 | 296 |

*Non-Compacted conductor, all other compacted conductor

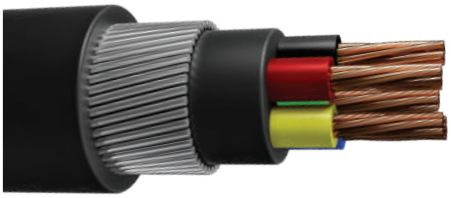
**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-NI* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.9 | 10.2 | 1.8 | 1.24 | 13.4 | 325 | 46 |
| 2 | 7614-02C00250-W0BK8-NI* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.9 | 11.0 | 1.8 | 1.24 | 14.2 | 365 | 49 |
| 3 | 7614-02C00400-W0BK8-NI* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 420 | 53 |
| 4 | 7614-02C00600-W0BK8-NI* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.9 | 13.2 | 1.8 | 1.24 | 16.4 | 500 | 58 |
| 5 | 7614-02C01000-W0BK8-NI* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 730 | 68 |
| 6 | 76D4-02C01600-W0BK8-NI | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 875 | 73 |
| 7 | 76D4-02C02500-W0BK8-NI | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 1.6 | 21.0 | 1.8 | 1.24 | 24.2 | 1280 | 89 |
| 8 | 76D4-02C03500-W0BK8-NI | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.6 | 23.2 | 1.8 | 1.24 | 26.4 | 1560 | 97 |
| 9 | 76D4-02C05000-W0BK8-NI | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1935 | 110 |
| 10 | 76D4-02C07000-W0BK8-NI | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 1.6 | 29.7 | 2.0 | 1.40 | 33.3 | 2495 | 138 |
| 11 | 76D4-02C09500-W0BK8-NI | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3385 | 166 |
| 12 | 76D4-02C12000-W0BK8-NI | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.0 | 37.5 | 2.2 | 1.56 | 41.5 | 4035 | 190 |
| 13 | 76D4-02C15000-W0BK8-NI | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.3 | 1.64 | 45.5 | 4795 | 218 |
| 14 | 76D4-02C18500-W0BK8-NI | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 2.5 | 46.7 | 2.5 | 1.80 | 51.3 | 6135 | 268 |
| 15 | 76D4-02C24000-W0BK8-NI | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 2.5 | 51.6 | 2.7 | 1.96 | 56.6 | 7535 | 320 |
| 16 | 76D4-02C30000-W0BK8-NI | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 2.5 | 56.7 | 2.8 | 2.04 | 61.9 | 9125 | 364 |
| 17 | 76D4-02C40000-W0BK8-NI | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 2.5 | 63.8 | 3.1 | 2.28 | 69.6 | 11165 | 453 |
| 18 | 7614-03C00150-W0BK8-NI* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.9 | 10.7 | 1.8 | 1.24 | 13.9 | 355 | 48 |
| 19 | 7614-03C00250-W0BK8-NI* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.9 | 11.6 | 1.8 | 1.24 | 14.8 | 410 | 51 |
| 20 | 7614-03C00400-W0BK8-NI* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.9 | 12.7 | 1.8 | 1.24 | 15.9 | 485 | 56 |
| 21 | 7614-03C00600-W0BK8-NI* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 585 | 61 |
| 22 | 7614-03C01000-W0BK8-NI* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 865 | 72 |
| 23 | 76D4-03C01600-W0BK8-NI | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 1060 | 77 |
| 24 | 76D4-03C02500-W0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.6 | 22.2 | 1.8 | 1.24 | 25.4 | 1565 | 93 |

*Non-Compacted circular conductor, all other compacted circular conductor.

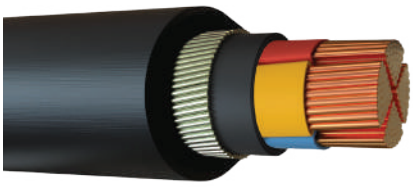
**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 25 | 76D4-03C03500-W0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.6 | 24.6 | 1.8 | 1.24 | 27.8 | 1950 | 103 |
| 26 | 7614-04C00150-W0BK8-NI* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 390 | 51 |
| 27 | 7614-04C00250-W0BK8-NI* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 465 | 55 |
| 28 | 7614-04C00400-W0BK8-NI* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 555 | 60 |
| 29 | 7614-04C00600-W0BK8-NI* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 775 | 68 |
| 30 | 7614-04C01000-W0BK8-NI* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 1015 | 77 |
| 31 | 76D4-04C01600-W0BK8-NI | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 1.6 | 20.4 | 1.8 | 1.24 | 23.6 | 1390 | 86 |
| 32 | 7614-05C00150-W0BK8-NI-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.9 | 12.3 | 1.8 | 1.24 | 15.5 | 440 | 54 |
| 33 | 7614-05C00250-W0BK8-NI-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 16.6 | 520 | 59 |
| 34 | 7614-05C00400-W0BK8-NI-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 1.25 | 15.5 | 1.8 | 1.24 | 18.7 | 725 | 67 |
| 35 | 7614-05C00600-W0BK8-NI-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 885 | 73 |
| 36 | 7614-05C01000-W0BK8-NI-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 1.25 | 19.6 | 1.8 | 1.24 | 22.8 | 1180 | 83 |
| 37 | 76D4-05C01600-W0BK8-NI-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.6 | 22.1 | 1.8 | 1.24 | 25.3 | 1615 | 93 |
| 38 | 76D4-05C02500-W0BK8-NI-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.6 | 26.4 | 1.8 | 1.24 | 29.6 | 2230 | 110 |
| 39 | 76D4-05C03500-W0BK8-NI-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2825 | 129 |
| 40 | 76D4-05C05000-W0BK8-NI-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 34.7 | 2.1 | 1.48 | 38.5 | 3910 | 168 |
| 41 | 76D4-05C07000-W0BK8-NI-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.0 | 39.4 | 2.3 | 1.64 | 43.6 | 5170 | 209 |
| 42 | 76D4-05C09500-W0BK8-NI-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 2.5 | 45.2 | 2.5 | 1.80 | 49.8 | 6985 | 260 |
| 43 | 76D4-05C12000-W0BK8-NI-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 2.5 | 49.6 | 2.6 | 1.88 | 54.4 | 8465 | 296 |

*Non-Compacted conductor, all other compacted conductor

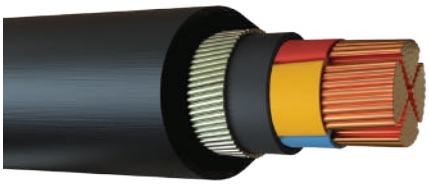
**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-W0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.6 | 19.7 | 1.8 | 1.24 | 22.9 | 1455 | 83 |
| 2 | 76F4-03C03500-W0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1800 | 91 |
| 3 | 76F4-03C05000-W0BK8-00 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.6 | 24.4 | 1.9 | 1.32 | 27.8 | 2300 | 108 |
| 4 | 76F4-03C07000-W0BK8-00 | 3C | 70 | 19 | 1.1 | 1.2 | 25.1 | 2.0 | 28.7 | 2.0 | 1.40 | 32.3 | 3265 | 133 |
| 5 | 76F4-03C09500-W0BK8-00 | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.0 | 31.6 | 2.2 | 1.56 | 35.6 | 4110 | 162 |
| 6 | 76F4-03C12000-W0BK8-00 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.0 | 34.5 | 2.3 | 1.64 | 38.7 | 4980 | 184 |
| 7 | 76F4-03C15000-W0BK8-00 | 3C | 150 | 19 | 1.4 | 1.4 | 35.1 | 2.5 | 39.6 | 2.5 | 1.80 | 44.0 | 6410 | 228 |
| 8 | 76F4-03C18500-W0BK8-00 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.5 | 43.0 | 2.6 | 1.88 | 47.8 | 7585 | 258 |
| 9 | 76F4-03C24000-W0BK8-00 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 2.5 | 47.7 | 2.8 | 2.04 | 52.9 | 9555 | 308 |
| 10 | 76F4-03C30000-W0BK8-00 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 2.5 | 51.9 | 3.0 | 2.20 | 57.5 | 11690 | 360 |
| 11 | 76F4-03C40000-W0BK8-00 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 2.5 | 58.3 | 3.2 | 2.36 | 64.3 | 14350 | 430 |
| 12 | 76F4-04C02500-W0BK8-00 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.6 | 22.6 | 1.8 | 1.24 | 25.8 | 1815 | 95 |
| 13 | 76F4-04C03500-W0BK8-00 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.6 | 25.0 | 1.9 | 1.32 | 28.4 | 2290 | 111 |
| 14 | 76F4-04C05000-W0BK8-00 | 4C | 50 | 19 | 1.0 | 1.0 | 25.0 | 1.6 | 28.2 | 2.0 | 1.40 | 31.9 | 2950 | 131 |
| 15 | 76F4-04C07000-W0BK8-00 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.0 | 33.5 | 2.2 | 1.56 | 37.5 | 4190 | 171 |
| 16 | 76F4-04C09500-W0BK8-00 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.0 | 37.0 | 2.3 | 1.64 | 41.2 | 5300 | 197 |
| 17 | 76F4-04C12000-W0BK8-00 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.5 | 42.0 | 2.5 | 1.80 | 46.6 | 6875 | 242 |
| 18 | 76F4-04C15000-W0BK8-00 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.5 | 46.3 | 2.6 | 1.88 | 51.1 | 8210 | 277 |
| 19 | 76F4-04C18500-W0BK8-00 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.5 | 50.7 | 2.8 | 2.04 | 55.9 | 9850 | 327 |
| 20 | 76F4-04C24000-W0BK8-00 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 2.5 | 56.4 | 3.0 | 2.20 | 62.0 | 12450 | 389 |
| 21 | 76F4-04C30000-W0BK8-00 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 2.5 | 61.6 | 3.2 | 2.36 | 67.6 | 15250 | 453 |
| 22 | 76F4-04C40000-W0BK8-00 | 4C | 400 | 61 | 2.0 | 1.8 | 64.8 | 3.15 | 71.1 | 3.5 | 2.60 | 77.8 | 19735 | 572 |

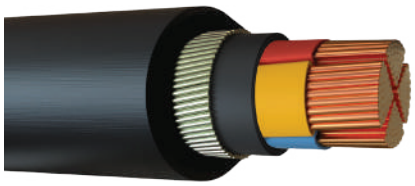
*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-W0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.6 | 19.7 | 1.8 | 1.24 | 22.9 | 1455 | 83 |
| 2 | 76F4-03C03500-W0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1800 | 91 |
| 3 | 76F4-03C05000-W0BK8-0A | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.6 | 24.4 | 1.9 | 1.32 | 27.8 | 2300 | 108 |
| 4 | 76F4-03C07000-W0BK8-0A | 3C | 70 | 19 | 1.1 | 1.2 | 25.1 | 2.0 | 28.7 | 2.0 | 1.40 | 32.3 | 3265 | 133 |
| 5 | 76F4-03C09500-W0BK8-0A | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.0 | 31.6 | 2.2 | 1.56 | 35.6 | 4110 | 162 |
| 6 | 76F4-03C12000-W0BK8-0A | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.0 | 34.5 | 2.3 | 1.64 | 38.7 | 4980 | 184 |
| 7 | 76F4-03C15000-W0BK8-0A | 3C | 150 | 19 | 1.4 | 1.4 | 35.1 | 2.5 | 39.6 | 2.5 | 1.80 | 44.0 | 6410 | 228 |
| 8 | 76F4-03C18500-W0BK8-0A | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.5 | 43.0 | 2.6 | 1.88 | 47.8 | 7585 | 258 |
| 9 | 76F4-03C24000-W0BK8-0A | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 2.5 | 47.7 | 2.8 | 2.04 | 52.9 | 9555 | 308 |
| 10 | 76F4-03C30000-W0BK8-0A | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 2.5 | 51.9 | 3.0 | 2.20 | 57.5 | 11690 | 360 |
| 11 | 76F4-03C40000-W0BK8-0A | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 2.5 | 58.3 | 3.2 | 2.36 | 64.3 | 14350 | 430 |
| 12 | 76F4-04C02500-W0BK8-0A | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.6 | 22.6 | 1.8 | 1.24 | 25.8 | 1815 | 95 |
| 13 | 76F4-04C03500-W0BK8-0A | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.6 | 25.0 | 1.9 | 1.32 | 28.4 | 2290 | 111 |
| 14 | 76F4-04C05000-W0BK8-0A | 4C | 50 | 19 | 1.0 | 1.0 | 25.0 | 1.6 | 28.2 | 2.0 | 1.40 | 31.9 | 2950 | 131 |
| 15 | 76F4-04C07000-W0BK8-0A | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.0 | 33.5 | 2.2 | 1.56 | 37.5 | 4190 | 171 |
| 16 | 76F4-04C09500-W0BK8-0A | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.0 | 37.0 | 2.3 | 1.64 | 41.2 | 5300 | 197 |
| 17 | 76F4-04C12000-W0BK8-0A | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.5 | 42.0 | 2.5 | 1.80 | 46.6 | 6875 | 242 |
| 18 | 76F4-04C15000-W0BK8-0A | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.5 | 46.3 | 2.6 | 1.88 | 51.1 | 8210 | 277 |
| 19 | 76F4-04C18500-W0BK8-0A | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.5 | 50.7 | 2.8 | 2.04 | 55.9 | 9850 | 327 |
| 20 | 76F4-04C24000-W0BK8-0A | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 2.5 | 56.4 | 3.0 | 2.20 | 62.0 | 12450 | 389 |
| 21 | 76F4-04C30000-W0BK8-0A | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 2.5 | 61.6 | 3.2 | 2.36 | 67.6 | 15250 | 453 |
| 22 | 76F4-04C40000-W0BK8-0A | 4C | 400 | 61 | 2.0 | 1.8 | 64.8 | 3.15 | 71.1 | 3.5 | 2.60 | 77.8 | 19735 | 572 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA.(mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-W0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.6 | 19.7 | 1.8 | 1.24 | 22.9 | 1455 | 83 |
| 2 | 76F4-03C03500-W0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1800 | 91 |
| 3 | 76F4-03C05000-W0BK8-NI | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.6 | 24.4 | 1.9 | 1.32 | 27.8 | 2300 | 108 |
| 4 | 76F4-03C07000-W0BK8-NI | 3C | 70 | 19 | 1.1 | 1.2 | 25.1 | 2.0 | 28.7 | 2.0 | 1.40 | 32.3 | 3265 | 133 |
| 5 | 76F4-03C09500-W0BK8-NI | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.0 | 31.6 | 2.2 | 1.56 | 35.6 | 4110 | 162 |
| 6 | 76F4-03C12000-W0BK8-NI | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.0 | 34.5 | 2.3 | 1.64 | 38.7 | 4980 | 184 |
| 7 | 76F4-03C15000-W0BK8-NI | 3C | 150 | 19 | 1.4 | 1.4 | 35.1 | 2.5 | 39.6 | 2.5 | 1.80 | 44.0 | 6410 | 228 |
| 8 | 76F4-03C18500-W0BK8-NI | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.5 | 43.0 | 2.6 | 1.88 | 47.8 | 7585 | 258 |
| 9 | 76F4-03C24000-W0BK8-NI | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 2.5 | 47.7 | 2.8 | 2.04 | 52.9 | 9555 | 308 |
| 10 | 76F4-03C30000-W0BK8-NI | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 2.5 | 51.9 | 3.0 | 2.20 | 57.5 | 11690 | 360 |
| 11 | 76F4-03C40000-W0BK8-NI | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 2.5 | 58.3 | 3.2 | 2.36 | 64.3 | 14350 | 430 |
| 12 | 76F4-04C02500-W0BK8-NI | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.6 | 22.6 | 1.8 | 1.24 | 25.8 | 1815 | 95 |
| 13 | 76F4-04C03500-W0BK8-NI | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.6 | 25.0 | 1.9 | 1.32 | 28.4 | 2290 | 111 |
| 14 | 76F4-04C05000-W0BK8-NI | 4C | 50 | 19 | 1.0 | 1.0 | 25.0 | 1.6 | 28.2 | 2.0 | 1.40 | 31.9 | 2950 | 131 |
| 15 | 76F4-04C07000-W0BK8-NI | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.0 | 33.5 | 2.2 | 1.56 | 37.5 | 4190 | 171 |
| 16 | 76F4-04C09500-W0BK8-NI | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.0 | 37.0 | 2.3 | 1.64 | 41.2 | 5300 | 197 |
| 17 | 76F4-04C12000-W0BK8-NI | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.5 | 42.0 | 2.5 | 1.80 | 46.6 | 6875 | 242 |
| 18 | 76F4-04C15000-W0BK8-NI | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.5 | 46.3 | 2.6 | 1.88 | 51.1 | 8210 | 277 |
| 17 | 76F4-04C18500-W0BK8-NI | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.5 | 50.7 | 2.8 | 2.04 | 55.9 | 9850 | 327 |
| 18 | 76F4-04C24000-W0BK8-NI | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 2.5 | 56.4 | 3.0 | 2.20 | 62.0 | 12450 | 389 |
| 19 | 76F4-04C30000-W0BK8-NI | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 2.5 | 61.6 | 3.2 | 2.36 | 67.6 | 15250 | 453 |
| 20 | 76F4-04C40000-W0BK8-NI | 4C | 400 | 61 | 2.0 | 1.8 | 64.8 | 3.15 | 71.1 | 3.5 | 2.60 | 77.8 | 19735 | 572 |

# CONTROL, MULTI CORE, ARMOURED CABLE

CU/XLPE/PVC/GSWA/PVC

SPECIFICATION: IEC 60502-1


| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C & Above: Black cores with Number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Armor | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/GSWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-00 | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.9 | 10.2 | 1.8 | 1.24 | 13.4 | 325 | 46 |
| 2 | 7614-03C00150-W0BK8-00 | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.9 | 10.7 | 1.8 | 1.24 | 13.9 | 355 | 48 |
| 3 | 7614-04C00150-W0BK8-00 | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.7 | 0.9 | 11.5 | 1.8 | 1.24 | 14.7 | 390 | 51 |
| 4 | 7614-05C00150-W0BK8-00 | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 440 | 55 |
| 5 | 7614-06C00150-W0BK8-00 | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 17.0 | 512 | 60 |
| 6 | 7614-07C00150-W0BK8-00 | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 17.0 | 528 | 60 |
| 7 | 7614-08C00150-W0BK8-00 | 8 | 1.5 | 7 | 0.7 | 1.0 | 13.0 | 1.25 | 15.5 | 1.8 | 1.24 | 19.1 | 684 | 68 |
| 8 | 7614-10C00150-W0BK8-00 | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.7 | 1.25 | 17.2 | 1.8 | 1.24 | 20.8 | 789 | 75 |
| 9 | 7614-12C00150-W0BK8-00 | 12 | 1.5 | 7 | 0.7 | 1.0 | 15.2 | 1.25 | 17.7 | 1.8 | 1.24 | 21.3 | 860 | 77 |
| 10 | 7614-14C00150-W0BK8-00 | 14 | 1.5 | 7 | 0.7 | 1.0 | 16.0 | 1.25 | 18.5 | 1.8 | 1.24 | 22.1 | 918 | 80 |
| 11 | 7614-15C00150-W0BK8-00 | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 974 | 84 |
| 12 | 7614-16C00150-W0BK8-00 | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 994 | 84 |
| 13 | 7614-18C00150-W0BK8-00 | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1070 | 87 |
| 14 | 7614-19C00150-W0BK8-00 | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1086 | 87 |
| 15 | 7614-20C00150-W0BK8-00 | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1274 | 94 |
| 16 | 7614-22C00150-W0BK8-00 | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1359 | 99 |
| 17 | 7614-24C00150-W0BK8-00 | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1451 | 102 |
| 18 | 7614-25C00150-W0BK8-00 | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1472 | 102 |
| 19 | 7614-26C00150-W0BK8-00 | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1493 | 102 |
| 20 | 7614-30C00150-W0BK8-00 | 30 | 1.5 | 7 | 0.7 | 1.0 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 29.0 | 1625 | 108 |
| 21 | 7614-32C00150-W0BK8-00 | 32 | 1.5 | 7 | 0.7 | 1.0 | 23.0 | 1.6 | 26.2 | 1.8 | 1.24 | 29.8 | 1696 | 111 |
| 22 | 7614-35C00150-W0BK8-00 | 35 | 1.5 | 7 | 0.7 | 1.0 | 24.0 | 1.6 | 27.2 | 1.8 | 1.24 | 30.8 | 1790 | 115 |
| 23 | 7614-36C00150-W0BK8-00 | 36 | 1.5 | 7 | 0.7 | 1.0 | 24.0 | 1.6 | 27.2 | 1.8 | 1.24 | 30.8 | 1820 | 115 |
| 24 | 7614-40C00150-W0BK8-00 | 40 | 1.5 | 7 | 0.7 | 1.0 | 25.0 | 1.6 | 28.2 | 1.9 | 1.32 | 32.0 | 1950 | 126 |
| 25 | 7614-50C00150-W0BK8-00 | 50 | 1.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2306 | 146 |

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 26 | 7614-61C00150-W0BK8-00 | 61 | 1.5 | 7 | 0.7 | 1.2 | 30.6 | 2.0 | 34.6 | 2.1 | 1.48 | 38.8 | 2930 | 169 |
| 27 | 7614-02C00250-W0BK8-00 | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.9 | 11.0 | 1.8 | 1.24 | 14.2 | 365 | 49 |
| 28 | 7614-03C00250-W0BK8-00 | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.9 | 11.6 | 1.8 | 1.24 | 14.8 | 410 | 51 |
| 29 | 7614-04C00250-W0BK8-00 | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 465 | 55 |
| 30 | 7614-05C00250-W0BK8-00 | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.8 | 0.9 | 13.6 | 1.8 | 1.24 | 16.8 | 520 | 59 |
| 31 | 7614-06C00250-W0BK8-00 | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.9 | 1.25 | 15.4 | 1.8 | 1.24 | 19.0 | 704 | 68 |
| 32 | 7614-07C00250-W0BK8-00 | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.9 | 1.25 | 15.4 | 1.8 | 1.24 | 19.0 | 730 | 68 |
| 33 | 7614-08C00250-W0BK8-00 | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.5 | 1.25 | 17.0 | 1.8 | 1.24 | 20.6 | 824 | 74 |
| 34 | 7614-10C00250-W0BK8-00 | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.4 | 1.25 | 18.9 | 1.8 | 1.24 | 22.5 | 950 | 82 |
| 35 | 7614-12C00250-W0BK8-00 | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 1037 | 84 |
| 36 | 7614-14C00250-W0BK8-00 | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1116 | 87 |
| 37 | 7614-15C00250-W0BK8-00 | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1315 | 94 |
| 38 | 7614-16C00250-W0BK8-00 | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1345 | 94 |
| 39 | 7614-18C00250-W0BK8-00 | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1459 | 99 |
| 40 | 7614-19C00250-W0BK8-00 | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1485 | 99 |
| 41 | 7614-20C00250-W0BK8-00 | 20 | 2.5 | 7 | 0.7 | 1.0 | 21.1 | 1.6 | 24.3 | 1.8 | 1.24 | 27.9 | 1567 | 103 |
| 42 | 7614-22C00250-W0BK8-00 | 22 | 2.5 | 7 | 0.7 | 1.0 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 29.0 | 1664 | 108 |
| 43 | 7614-24C00250-W0BK8-00 | 24 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1781 | 112 |
| 44 | 7614-25C00250-W0BK8-00 | 25 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1812 | 112 |
| 45 | 7614-26C00250-W0BK8-00 | 26 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1842 | 112 |
| 46 | 7614-30C00250-W0BK8-00 | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.8 | 1.6 | 28.0 | 1.9 | 1.32 | 31.8 | 2042 | 125 |
| 47 | 7614-32C00250-W0BK8-00 | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.9 | 2146 | 129 |
| 48 | 7614-35C00250-W0BK8-00 | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2262 | 134 |
| 49 | 7614-36C00250-W0BK8-00 | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2301 | 134 |
| 50 | 7614-40C00250-W0BK8-00 | 40 | 2.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2479 | 146 |
| 51 | 7614-50C00250-W0BK8-00 | 50 | 2.5 | 7 | 0.7 | 1.2 | 32.1 | 2.0 | 36.1 | 2.1 | 1.48 | 40.3 | 3252 | 176 |
| 52 | 7614-61C00250-W0BK8-00 | 61 | 2.5 | 7 | 0.7 | 1.2 | 34.3 | 2.0 | 38.3 | 2.2 | 1.56 | 42.7 | 3718 | 196 |

## TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-0A | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.9 | 10.2 | 1.8 | 1.24 | 13.4 | 325 | 46 |
| 2 | 7614-03C00150-W0BK8-0A | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.9 | 10.7 | 1.8 | 1.24 | 13.9 | 355 | 48 |
| 3 | 7614-04C00150-W0BK8-0A | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.7 | 0.9 | 11.5 | 1.8 | 1.24 | 14.7 | 390 | 51 |
| 4 | 7614-05C00150-W0BK8-0A | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 440 | 55 |
| 5 | 7614-06C00150-W0BK8-0A | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 17.0 | 512 | 60 |
| 6 | 7614-07C00150-W0BK8-0A | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 17.0 | 528 | 60 |
| 7 | 7614-08C00150-W0BK8-0A | 8 | 1.5 | 7 | 0.7 | 1.0 | 13.0 | 1.25 | 15.5 | 1.8 | 1.24 | 19.1 | 684 | 68 |
| 8 | 7614-10C00150-W0BK8-0A | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.7 | 1.25 | 17.2 | 1.8 | 1.24 | 20.8 | 789 | 75 |
| 9 | 7614-12C00150-W0BK8-0A | 12 | 1.5 | 7 | 0.7 | 1.0 | 15.2 | 1.25 | 17.7 | 1.8 | 1.24 | 21.3 | 860 | 77 |
| 10 | 7614-14C00150-W0BK8-0A | 14 | 1.5 | 7 | 0.7 | 1.0 | 16.0 | 1.25 | 18.5 | 1.8 | 1.24 | 22.1 | 918 | 80 |
| 11 | 7614-15C00150-W0BK8-0A | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 974 | 84 |
| 12 | 7614-16C00150-W0BK8-0A | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 994 | 84 |
| 13 | 7614-18C00150-W0BK8-0A | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1070 | 87 |
| 14 | 7614-19C00150-W0BK8-0A | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1086 | 87 |
| 15 | 7614-20C00150-W0BK8-0A | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1274 | 94 |
| 16 | 7614-22C00150-W0BK8-0A | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1359 | 99 |
| 17 | 7614-24C00150-W0BK8-0A | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1451 | 102 |
| 18 | 7614-25C00150-W0BK8-0A | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1472 | 102 |
| 19 | 7614-26C00150-W0BK8-0A | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1493 | 102 |
| 20 | 7614-30C00150-W0BK8-0A | 30 | 1.5 | 7 | 0.7 | 1.0 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 29.0 | 1625 | 108 |
| 21 | 7614-32C00150-W0BK8-0A | 32 | 1.5 | 7 | 0.7 | 1.0 | 23.0 | 1.6 | 26.2 | 1.8 | 1.24 | 29.8 | 1696 | 111 |
| 22 | 7614-35C00150-W0BK8-0A | 35 | 1.5 | 7 | 0.7 | 1.0 | 24.0 | 1.6 | 27.2 | 1.8 | 1.24 | 30.8 | 1790 | 115 |
| 23 | 7614-36C00150-W0BK8-0A | 36 | 1.5 | 7 | 0.7 | 1.0 | 24.0 | 1.6 | 27.2 | 1.8 | 1.24 | 30.8 | 1820 | 115 |
| 24 | 7614-40C00150-W0BK8-0A | 40 | 1.5 | 7 | 0.7 | 1.0 | 25.0 | 1.6 | 28.2 | 1.9 | 1.32 | 32.0 | 1950 | 126 |
| 25 | 7614-50C00150-W0BK8-0A | 50 | 1.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2306 | 146 |
| 26 | 7614-61C00150-W0BK8-0A | 61 | 1.5 | 7 | 0.7 | 1.2 | 30.6 | 2.0 | 34.6 | 2.1 | 1.48 | 38.8 | 2930 | 169 |
| 27 | 7614-02C00250-W0BK8-0A | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.9 | 11.0 | 1.8 | 1.24 | 14.2 | 365 | 49 |
| 28 | 7614-03C00250-W0BK8-0A | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.9 | 11.6 | 1.8 | 1.24 | 14.8 | 410 | 51 |
| 29 | 7614-04C00250-W0BK8-0A | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 465 | 55 |
| 30 | 7614-05C00250-W0BK8-0A | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.8 | 0.9 | 13.6 | 1.8 | 1.24 | 16.8 | 520 | 59 |
| 31 | 7614-06C00250-W0BK8-0A | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.9 | 1.25 | 15.4 | 1.8 | 1.24 | 19.0 | 704 | 68 |
| 32 | 7614-07C00250-W0BK8-0A | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.9 | 1.25 | 15.4 | 1.8 | 1.24 | 19.0 | 730 | 68 |

## TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 33 | 7614-08C00250-W0BK8-0A | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.5 | 1.25 | 17.0 | 1.8 | 1.24 | 20.6 | 824 | 74 |
| 34 | 7614-10C00250-W0BK8-0A | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.4 | 1.25 | 18.9 | 1.8 | 1.24 | 22.5 | 950 | 82 |
| 35 | 7614-12C00250-W0BK8-0A | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 1037 | 84 |
| 36 | 7614-14C00250-W0BK8-0A | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1116 | 87 |
| 37 | 7614-15C00250-W0BK8-0A | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1315 | 94 |
| 38 | 7614-16C00250-W0BK8-0A | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1345 | 94 |
| 39 | 7614-18C00250-W0BK8-0A | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1459 | 99 |
| 40 | 7614-19C00250-W0BK8-0A | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1485 | 99 |
| 41 | 7614-20C00250-W0BK8-0A | 20 | 2.5 | 7 | 0.7 | 1.0 | 21.1 | 1.6 | 24.3 | 1.8 | 1.24 | 27.9 | 1567 | 103 |
| 42 | 7614-22C00250-W0BK8-0A | 22 | 2.5 | 7 | 0.7 | 1.0 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 29.0 | 1664 | 108 |
| 43 | 7614-24C00250-W0BK8-0A | 24 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1781 | 112 |
| 44 | 7614-25C00250-W0BK8-0A | 25 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1812 | 112 |
| 45 | 7614-26C00250-W0BK8-0A | 26 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1842 | 112 |
| 46 | 7614-30C00250-W0BK8-0A | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.8 | 1.6 | 28.0 | 1.9 | 1.32 | 31.8 | 2042 | 125 |
| 47 | 7614-32C00250-W0BK8-0A | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.9 | 2146 | 129 |
| 48 | 7614-35C00250-W0BK8-0A | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2262 | 134 |
| 49 | 7614-36C00250-W0BK8-0A | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2301 | 134 |
| 50 | 7614-40C00250-W0BK8-0A | 40 | 2.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2479 | 146 |
| 51 | 7614-50C00250-W0BK8-0A | 50 | 2.5 | 7 | 0.7 | 1.2 | 32.1 | 2.0 | 36.1 | 2.1 | 1.48 | 40.3 | 3252 | 176 |
| 52 | 7614-61C00250-W0BK8-0A | 61 | 2.5 | 7 | 0.7 | 1.2 | 34.3 | 2.0 | 38.3 | 2.2 | 1.56 | 42.7 | 3718 | 196 |
| 53 | 7614-30C00250-W0BK8-00 | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.8 | 1.6 | 28.0 | 1.9 | 1.32 | 31.8 | 2042 | 125 |
| 54 | 7614-32C00250-W0BK8-00 | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.9 | 2146 | 129 |
| 55 | 7614-35C00250-W0BK8-00 | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2262 | 134 |
| 56 | 7614-36C00250-W0BK8-00 | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2301 | 134 |
| 57 | 7614-40C00250-W0BK8-00 | 40 | 2.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2479 | 146 |
| 58 | 7614-50C00250-W0BK8-0A | 50 | 2.5 | 7 | 0.7 | 1.2 | 32.1 | 2.0 | 36.1 | 2.1 | 1.48 | 40.3 | 3252 | 176 |
| 59 | 7614-61C00250-W0BK8-0A | 61 | 2.5 | 7 | 0.7 | 1.2 | 34.3 | 2.0 | 38.3 | 2.2 | 1.56 | 42.7 | 3718 | 196 |

**TABLE: IEC 60332-1-2**

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-NI | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.9 | 10.2 | 1.8 | 1.24 | 13.4 | 325 | 46 |
| 2 | 7614-03C00150-W0BK8-NI | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.9 | 10.7 | 1.8 | 1.24 | 13.9 | 355 | 48 |
| 3 | 7614-04C00150-W0BK8-NI | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.7 | 0.9 | 11.5 | 1.8 | 1.24 | 14.7 | 390 | 51 |
| 4 | 7614-05C00150-W0BK8-NI | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 440 | 55 |
| 5 | 7614-06C00150-W0BK8-NI | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 17.0 | 512 | 60 |
| 6 | 7614-07C00150-W0BK8-NI | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 17.0 | 528 | 60 |
| 7 | 7614-08C00150-W0BK8-NI | 8 | 1.5 | 7 | 0.7 | 1.0 | 13.0 | 1.25 | 15.5 | 1.8 | 1.24 | 19.1 | 684 | 68 |
| 8 | 7614-10C00150-W0BK8-NI | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.7 | 1.25 | 17.2 | 1.8 | 1.24 | 20.8 | 789 | 75 |
| 9 | 7614-12C00150-W0BK8-NI | 12 | 1.5 | 7 | 0.7 | 1.0 | 15.2 | 1.25 | 17.7 | 1.8 | 1.24 | 21.3 | 860 | 77 |
| 10 | 7614-14C00150-W0BK8-NI | 14 | 1.5 | 7 | 0.7 | 1.0 | 16.0 | 1.25 | 18.5 | 1.8 | 1.24 | 22.1 | 918 | 80 |
| 11 | 7614-15C00150-W0BK8-NI | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 974 | 84 |
| 12 | 7614-16C00150-W0BK8-NI | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 994 | 84 |
| 13 | 7614-18C00150-W0BK8-NI | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1070 | 87 |
| 14 | 7614-19C00150-W0BK8-NI | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1086 | 87 |
| 15 | 7614-20C00150-W0BK8-NI | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1274 | 94 |
| 16 | 7614-22C00150-W0BK8-NI | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1359 | 99 |
| 17 | 7614-24C00150-W0BK8-NI | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1451 | 102 |
| 18 | 7614-25C00150-W0BK8-NI | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1472 | 102 |
| 19 | 7614-26C00150-W0BK8-NI | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1493 | 102 |
| 20 | 7614-30C00150-W0BK8-NI | 30 | 1.5 | 7 | 0.7 | 1.0 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 29.0 | 1625 | 108 |
| 21 | 7614-32C00150-W0BK8-NI | 32 | 1.5 | 7 | 0.7 | 1.0 | 23.0 | 1.6 | 26.2 | 1.8 | 1.24 | 29.8 | 1696 | 111 |
| 22 | 7614-35C00150-W0BK8-NI | 35 | 1.5 | 7 | 0.7 | 1.0 | 24.0 | 1.6 | 27.2 | 1.8 | 1.24 | 30.8 | 1790 | 115 |
| 23 | 7614-36C00150-W0BK8-NI | 36 | 1.5 | 7 | 0.7 | 1.0 | 24.0 | 1.6 | 27.2 | 1.8 | 1.24 | 30.8 | 1820 | 115 |

**TABLE: IEC 60332-1-2**

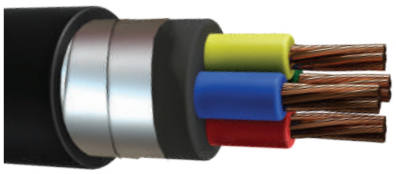
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 24 | 7614-40C00150-W0BK8-NI | 40 | 1.5 | 7 | 0.7 | 1.0 | 25.0 | 1.6 | 28.2 | 1.9 | 1.32 | 32.0 | 1950 | 126 |
| 25 | 7614-50C00150-W0BK8-NI | 50 | 1.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2306 | 146 |
| 26 | 7614-61C00150-W0BK8-NI | 61 | 1.5 | 7 | 0.7 | 1.2 | 30.6 | 2.0 | 34.6 | 2.1 | 1.48 | 38.8 | 2930 | 169 |
| 27 | 7614-02C00250-W0BK8-NI | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.9 | 11.0 | 1.8 | 1.24 | 14.2 | 365 | 49 |
| 28 | 7614-03C00250-W0BK8-NI | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.9 | 11.6 | 1.8 | 1.24 | 14.8 | 410 | 51 |
| 29 | 7614-04C00250-W0BK8-NI | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 465 | 55 |
| 30 | 7614-05C00250-W0BK8-NI | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.8 | 0.9 | 13.6 | 1.8 | 1.24 | 16.8 | 520 | 59 |
| 31 | 7614-06C00250-W0BK8-NI | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.9 | 1.25 | 15.4 | 1.8 | 1.24 | 19.0 | 704 | 68 |
| 32 | 7614-07C00250-W0BK8-NI | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.9 | 1.25 | 15.4 | 1.8 | 1.24 | 19.0 | 730 | 68 |
| 33 | 7614-08C00250-W0BK8-NI | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.5 | 1.25 | 17.0 | 1.8 | 1.24 | 20.6 | 824 | 74 |
| 34 | 7614-10C00250-W0BK8-NI | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.4 | 1.25 | 18.9 | 1.8 | 1.24 | 22.5 | 950 | 82 |
| 35 | 7614-12C00250-W0BK8-NI | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 1037 | 84 |
| 36 | 7614-14C00250-W0BK8-NI | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1116 | 87 |
| 37 | 7614-15C00250-W0BK8-NI | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1315 | 94 |
| 38 | 7614-16C00250-W0BK8-NI | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1345 | 94 |
| 39 | 7614-18C00250-W0BK8-NI | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1459 | 99 |
| 40 | 7614-19C00250-W0BK8-NI | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1485 | 99 |
| 41 | 7614-20C00250-W0BK8-NI | 20 | 2.5 | 7 | 0.7 | 1.0 | 21.1 | 1.6 | 24.3 | 1.8 | 1.24 | 27.9 | 1567 | 103 |
| 42 | 7614-22C00250-W0BK8-NI | 22 | 2.5 | 7 | 0.7 | 1.0 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 29.0 | 1664 | 108 |
| 43 | 7614-24C00250-W0BK8-NI | 24 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1781 | 112 |
| 44 | 7614-25C00250-W0BK8-NI | 25 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1812 | 112 |
| 45 | 7614-26C00250-W0BK8-NI | 26 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1842 | 112 |
| 46 | 7614-30C00250-W0BK8-NI | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.8 | 1.6 | 28.0 | 1.9 | 1.32 | 31.8 | 2042 | 125 |
| 47 | 7614-32C00250-W0BK8-NI | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.9 | 2146 | 129 |
| 48 | 7614-35C00250-W0BK8-NI | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2262 | 134 |
| 49 | 7614-36C00250-W0BK8-NI | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2301 | 134 |
| 50 | 7614-40C00250-W0BK8-NI | 40 | 2.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2479 | 146 |
| 51 | 7614-50C00250-W0BK8-NI | 50 | 2.5 | 7 | 0.7 | 1.2 | 32.1 | 2.0 | 36.1 | 2.1 | 1.48 | 40.3 | 3252 | 176 |
| 52 | 7614-61C00250-W0BK8-NI | 61 | 2.5 | 7 | 0.7 | 1.2 | 34.3 | 2.0 | 38.3 | 2.2 | 1.56 | 42.7 | 3718 | 196 |

# LV POWER, MULTI CORE, STEEL TAPE ARMOURED CABLE

U/XLPE/PVC/DSTA/PVC

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

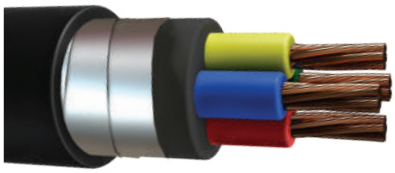
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Steel Tape Armor | Double galvanized steel tape applied helically over the inner sheath as per IEC-60502-1. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/DSTA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
Cables with Two/Three/Four and half core is available on request.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

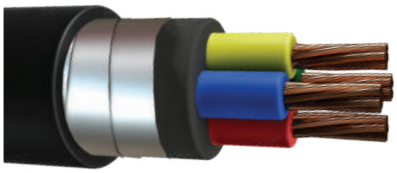
**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-G0BK8-00* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.2 | 9.2 | 1.8 | 1.24 | 12.4 | 230 | 42 |
| 2 | 7614-02C00250-G0BK8-00* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.2 | 10.0 | 1.8 | 1.24 | 13.2 | 265 | 45 |
| 3 | 7614-02C00400-G0BK8-00* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.2 | 11.0 | 1.8 | 1.24 | 14.2 | 315 | 49 |
| 4 | 7614-02C00600-G0BK8-00* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.2 | 12.2 | 1.8 | 1.24 | 15.4 | 380 | 54 |
| 5 | 7614-02C01000-G0BK8-00* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.2 | 14.1 | 1.8 | 1.24 | 17.3 | 500 | 61 |
| 6 | 76D4-02C01600-G0BK8-00 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.2 | 15.4 | 1.8 | 1.24 | 18.6 | 620 | 66 |
| 7 | 76D4-02C02500-G0BK8-00 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.2 | 18.6 | 1.8 | 1.24 | 21.8 | 860 | 79 |
| 8 | 76D4-02C03500-G0BK8-00 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.2 | 20.8 | 1.8 | 1.24 | 24.0 | 1090 | 88 |
| 9 | 76D4-02C05000-G0BK8-00 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.2 | 23.9 | 1.8 | 1.24 | 27.1 | 1390 | 100 |
| 10 | 76D4-02C07000-G0BK8-00 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.2 | 27.3 | 1.9 | 1.32 | 30.7 | 1855 | 120 |
| 11 | 76D4-02C09500-G0BK8-00 | 2C | 95 | 19 | 1.1 | 1.2 | 30.0 | 0.2 | 31.0 | 2.0 | 1.40 | 34.6 | 2420 | 143 |
| 12 | 76D4-02C12000-G0BK8-00 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.5 | 35.5 | 2.2 | 1.56 | 39.5 | 3370 | 180 |
| 13 | 76D4-02C15000-G0BK8-00 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.5 | 39.3 | 2.3 | 1.64 | 43.3 | 4020 | 207 |
| 14 | 76D4-02C18500-G0BK8-00 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.5 | 43.7 | 2.5 | 1.80 | 48.1 | 4880 | 251 |
| 15 | 76D4-02C24000-G0BK8-00 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.5 | 48.6 | 2.6 | 1.88 | 53.2 | 6130 | 289 |
| 16 | 76D4-02C30000-G0BK8-00 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.5 | 53.7 | 2.8 | 2.04 | 58.5 | 7560 | 343 |
| 17 | 76D4-02C40000-G0BK8-00 | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.5 | 60.8 | 3.0 | 2.20 | 66.0 | 9360 | 416 |
| 18 | 7614-03C00150-G0BK8-00* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.2 | 9.7 | 1.8 | 1.24 | 12.9 | 260 | 44 |
| 19 | 7614-03C00250-G0BK8-00* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.2 | 10.6 | 1.8 | 1.24 | 13.8 | 305 | 47 |
| 20 | 7614-03C00400-G0BK8-00* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.2 | 11.7 | 1.8 | 1.24 | 14.9 | 370 | 52 |
| 21 | 7614-03C00600-G0BK8-00* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.2 | 13.0 | 1.8 | 1.24 | 16.2 | 460 | 57 |
| 22 | 7614-03C01000-G0BK8-00* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.2 | 15.0 | 1.8 | 1.24 | 18.2 | 620 | 65 |
| 23 | 76D4-03C01600-G0BK8-00 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.2 | 16.4 | 1.8 | 1.24 | 19.6 | 795 | 70 |
| 24 | 76D4-03C02500-G0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.2 | 19.8 | 1.8 | 1.24 | 23.0 | 1120 | 84 |
| 25 | 76D4-03C03500-G0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.2 | 22.2 | 1.8 | 1.24 | 25.4 | 1390 | 93 |

*Non-Compacted circular conductor, all other compacted circular conductor.

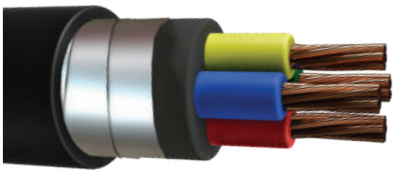
**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 26 | 7614-04C00150-G0BK8-00* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.2 | 10.4 | 1.8 | 1.24 | 13.6 | 290 | 47 |
| 27 | 7614-04C00250-G0BK8-00* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.2 | 11.5 | 1.8 | 1.24 | 14.7 | 355 | 51 |
| 28 | 7614-04C00400-G0BK8-00* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.2 | 12.7 | 1.8 | 1.24 | 15.9 | 435 | 56 |
| 29 | 7614-04C00600-G0BK8-00* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.2 | 14.1 | 1.8 | 1.24 | 17.3 | 545 | 61 |
| 30 | 7614-04C01000-G0BK8-00* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.2 | 16.4 | 1.8 | 1.24 | 19.6 | 750 | 70 |
| 31 | 76D4-04C01600-G0BK8-00 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.2 | 18.0 | 1.8 | 1.24 | 21.2 | 980 | 77 |
| 32 | 7614-05C00150-G0BK8-00-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.2 | 11.3 | 1.8 | 1.24 | 14.5 | 330 | 50 |
| 33 | 7614-05C00250-G0BK8-00-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.2 | 12.4 | 1.8 | 1.24 | 15.6 | 400 | 55 |
| 34 | 7614-05C00400-G0BK8-00-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.2 | 13.8 | 1.8 | 1.24 | 17.0 | 500 | 60 |
| 35 | 7614-05C00600-G0BK8-00-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.2 | 15.4 | 1.8 | 1.24 | 18.6 | 635 | 66 |
| 36 | 7614-05C01000-G0BK8-00-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.2 | 17.9 | 1.8 | 1.24 | 21.1 | 885 | 76 |
| 37 | 76D4-05C01600-G0BK8-00-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.2 | 19.7 | 1.8 | 1.24 | 22.9 | 1170 | 83 |
| 38 | 76D4-05C02500-G0BK8-00-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.2 | 24.0 | 1.8 | 1.24 | 27.2 | 1680 | 100 |
| 39 | 76D4-05C03500-G0BK8-00-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.2 | 26.9 | 1.9 | 1.32 | 30.3 | 2215 | 119 |
| 40 | 76D4-05C05000-G0BK8-00-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.2 | 31.5 | 2.1 | 1.48 | 35.3 | 2960 | 153 |
| 41 | 76D4-05C07000-G0BK8-00-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.5 | 37.4 | 2.3 | 1.64 | 41.4 | 4440 | 198 |
| 42 | 76D4-05C09500-G0BK8-00-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.5 | 42.2 | 2.4 | 1.72 | 46.4 | 5765 | 232 |
| 43 | 76D4-05C12000-G0BK8-00-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.5 | 46.6 | 2.6 | 1.88 | 51.2 | 7135 | 278 |

*Non-Compacted conductor, all other compacted conductor

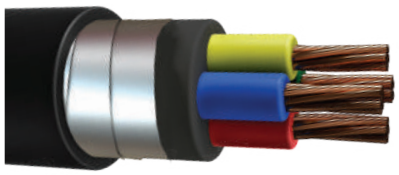
**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-G0BK8-0A* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.2 | 9.2 | 1.8 | 1.24 | 12.4 | 230 | 42 |
| 2 | 7614-02C00250-G0BK8-0A* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.2 | 10.0 | 1.8 | 1.24 | 13.2 | 265 | 45 |
| 3 | 7614-02C00400-G0BK8-0A* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.2 | 11.0 | 1.8 | 1.24 | 14.2 | 315 | 49 |
| 4 | 7614-02C00600-G0BK8-0A* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.2 | 12.2 | 1.8 | 1.24 | 15.4 | 380 | 54 |
| 5 | 7614-02C01000-G0BK8-0A* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.2 | 14.1 | 1.8 | 1.24 | 17.3 | 500 | 61 |
| 6 | 76D4-02C01600-G0BK8-0A | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.2 | 15.4 | 1.8 | 1.24 | 18.6 | 620 | 66 |
| 7 | 76D4-02C02500-G0BK8-0A | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.2 | 18.6 | 1.8 | 1.24 | 21.8 | 860 | 79 |
| 8 | 76D4-02C03500-G0BK8-0A | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.2 | 20.8 | 1.8 | 1.24 | 24.0 | 1090 | 88 |
| 9 | 76D4-02C05000-G0BK8-0A | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.2 | 23.9 | 1.8 | 1.24 | 27.1 | 1390 | 100 |
| 10 | 76D4-02C07000-G0BK8-0A | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.2 | 27.3 | 1.9 | 1.32 | 30.7 | 1855 | 120 |
| 11 | 76D4-02C09500-G0BK8-0A | 2C | 95 | 19 | 1.1 | 1.2 | 30.0 | 0.2 | 31.0 | 2.0 | 1.40 | 34.6 | 2420 | 143 |
| 12 | 76D4-02C12000-G0BK8-0A | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.5 | 35.5 | 2.2 | 1.56 | 39.5 | 3370 | 180 |
| 13 | 76D4-02C15000-G0BK8-0A | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.5 | 39.3 | 2.3 | 1.64 | 43.3 | 4020 | 207 |
| 14 | 76D4-02C18500-G0BK8-0A | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.5 | 43.7 | 2.5 | 1.80 | 48.1 | 4880 | 251 |
| 15 | 76D4-02C24000-G0BK8-0A | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.5 | 48.6 | 2.6 | 1.88 | 53.2 | 6130 | 289 |
| 16 | 76D4-02C30000-G0BK8-0A | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.5 | 53.7 | 2.8 | 2.04 | 58.5 | 7560 | 343 |
| 17 | 76D4-02C40000-G0BK8-0A | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.5 | 60.8 | 3.0 | 2.20 | 66.0 | 9360 | 416 |
| 18 | 7614-03C00150-G0BK8-0A* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.2 | 9.7 | 1.8 | 1.24 | 12.9 | 260 | 44 |
| 19 | 7614-03C00250-G0BK8-0A* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.2 | 10.6 | 1.8 | 1.24 | 13.8 | 305 | 47 |
| 20 | 7614-03C00400-G0BK8-0A* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.2 | 11.7 | 1.8 | 1.24 | 14.9 | 370 | 52 |
| 21 | 7614-03C00600-G0BK8-0A* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.2 | 13.0 | 1.8 | 1.24 | 16.2 | 460 | 57 |
| 22 | 7614-03C01000-G0BK8-0A* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.2 | 15.0 | 1.8 | 1.24 | 18.2 | 620 | 65 |
| 23 | 76D4-03C01600-G0BK8-0A | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.2 | 16.4 | 1.8 | 1.24 | 19.6 | 795 | 70 |
| 24 | 76D4-03C02500-G0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.2 | 19.8 | 1.8 | 1.24 | 23.0 | 1120 | 84 |

*Non-Compacted circular conductor, all other compacted circular conductor.

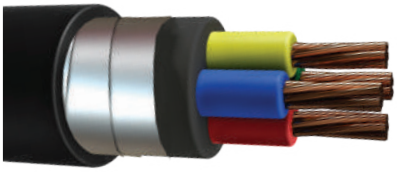
**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 25 | 76D4-03C03500-G0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.2 | 22.2 | 1.8 | 1.24 | 25.4 | 1390 | 93 |
| 26 | 7614-04C00150-G0BK8-0A* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.2 | 10.4 | 1.8 | 1.24 | 13.6 | 290 | 47 |
| 27 | 7614-04C00250-G0BK8-0A* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.2 | 11.5 | 1.8 | 1.24 | 14.7 | 355 | 51 |
| 28 | 7614-04C00400-G0BK8-0A* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.2 | 12.7 | 1.8 | 1.24 | 15.9 | 435 | 56 |
| 29 | 7614-04C00600-G0BK8-0A* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.2 | 14.1 | 1.8 | 1.24 | 17.3 | 545 | 61 |
| 30 | 7614-04C01000-G0BK8-0A* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.2 | 16.4 | 1.8 | 1.24 | 19.6 | 750 | 70 |
| 31 | 76D4-04C01600-G0BK8-0A | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.2 | 18.0 | 1.8 | 1.24 | 21.2 | 980 | 77 |
| 32 | 7614-05C00150-G0BK8-0A-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.2 | 11.3 | 1.8 | 1.24 | 14.5 | 330 | 50 |
| 33 | 7614-05C00250-G0BK8-0A-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.2 | 12.4 | 1.8 | 1.24 | 15.6 | 400 | 55 |
| 34 | 7614-05C00400-G0BK8-0A-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.2 | 13.8 | 1.8 | 1.24 | 17.0 | 500 | 60 |
| 35 | 7614-05C00600-G0BK8-0A-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.2 | 15.4 | 1.8 | 1.24 | 18.6 | 635 | 66 |
| 36 | 7614-05C01000-G0BK8-0A-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.2 | 17.9 | 1.8 | 1.24 | 21.1 | 885 | 76 |
| 37 | 76D4-05C01600-G0BK8-0A-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.2 | 19.7 | 1.8 | 1.24 | 22.9 | 1170 | 83 |
| 38 | 76D4-05C02500-G0BK8-0A-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.2 | 24.0 | 1.8 | 1.24 | 27.2 | 1680 | 100 |
| 39 | 76D4-05C03500-G0BK8-0A-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.2 | 26.9 | 1.9 | 1.32 | 30.3 | 2215 | 119 |
| 40 | 76D4-05C05000-G0BK8-0A-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.2 | 31.5 | 2.1 | 1.48 | 35.3 | 2960 | 153 |
| 41 | 76D4-05C07000-G0BK8-0A-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.5 | 37.4 | 2.3 | 1.64 | 41.4 | 4440 | 198 |
| 42 | 76D4-05C09500-G0BK8-0A-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.5 | 42.2 | 2.4 | 1.72 | 46.4 | 5765 | 232 |
| 43 | 76D4-05C12000-G0BK8-0A-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.5 | 46.6 | 2.6 | 1.88 | 51.2 | 7135 | 278 |

*Non-Compacted conductor, all other compacted conductor

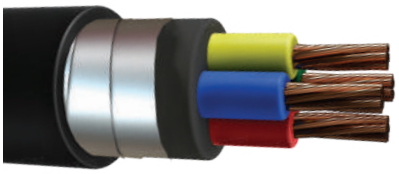
**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-G0BK8-NI* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.2 | 9.2 | 1.8 | 1.24 | 12.4 | 230 | 42 |
| 2 | 7614-02C00250-G0BK8-NI* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.2 | 10.0 | 1.8 | 1.24 | 13.2 | 265 | 45 |
| 3 | 7614-02C00400-G0BK8-NI* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.2 | 11.0 | 1.8 | 1.24 | 14.2 | 315 | 49 |
| 4 | 7614-02C00600-G0BK8-NI* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.2 | 12.2 | 1.8 | 1.24 | 15.4 | 380 | 54 |
| 5 | 7614-02C01000-G0BK8-NI* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.2 | 14.1 | 1.8 | 1.24 | 17.3 | 500 | 61 |
| 6 | 76D4-02C01600-G0BK8-NI | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.2 | 15.4 | 1.8 | 1.24 | 18.6 | 620 | 66 |
| 7 | 76D4-02C02500-G0BK8-NI | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.2 | 18.6 | 1.8 | 1.24 | 21.8 | 860 | 79 |
| 8 | 76D4-02C03500-G0BK8-NI | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.2 | 20.8 | 1.8 | 1.24 | 24.0 | 1090 | 88 |
| 9 | 76D4-02C05000-G0BK8-NI | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.2 | 23.9 | 1.8 | 1.24 | 27.1 | 1390 | 100 |
| 10 | 76D4-02C07000-G0BK8-NI | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.2 | 27.3 | 1.9 | 1.32 | 30.7 | 1855 | 120 |
| 11 | 76D4-02C09500-G0BK8-NI | 2C | 95 | 19 | 1.1 | 1.2 | 30.0 | 0.2 | 31.0 | 2.0 | 1.40 | 34.6 | 2420 | 143 |
| 12 | 76D4-02C12000-G0BK8-NI | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.5 | 35.5 | 2.2 | 1.56 | 39.5 | 3370 | 180 |
| 13 | 76D4-02C15000-G0BK8-NI | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.5 | 39.3 | 2.3 | 1.64 | 43.3 | 4020 | 207 |
| 14 | 76D4-02C18500-G0BK8-NI | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.5 | 43.7 | 2.5 | 1.80 | 48.1 | 4880 | 251 |
| 15 | 76D4-02C24000-G0BK8-NI | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.5 | 48.6 | 2.6 | 1.88 | 53.2 | 6130 | 289 |
| 16 | 76D4-02C30000-G0BK8-NI | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.5 | 53.7 | 2.8 | 2.04 | 58.5 | 7560 | 343 |
| 17 | 76D4-02C40000-G0BK8-NI | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.5 | 60.8 | 3.0 | 2.20 | 66.0 | 9360 | 416 |
| 18 | 7614-03C00150-G0BK8-NI* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.2 | 9.7 | 1.8 | 1.24 | 12.9 | 260 | 44 |
| 19 | 7614-03C00250-G0BK8-NI* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.2 | 10.6 | 1.8 | 1.24 | 13.8 | 305 | 47 |
| 20 | 7614-03C00400-G0BK8-NI* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.2 | 11.7 | 1.8 | 1.24 | 14.9 | 370 | 52 |
| 21 | 7614-03C00600-G0BK8-NI* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.2 | 13.0 | 1.8 | 1.24 | 16.2 | 460 | 57 |
| 22 | 7614-03C01000-G0BK8-NI* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.2 | 15.0 | 1.8 | 1.24 | 18.2 | 620 | 65 |
| 23 | 76D4-03C01600-G0BK8-NI | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.2 | 16.4 | 1.8 | 1.24 | 19.6 | 795 | 70 |
| 24 | 76D4-03C02500-G0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.2 | 19.8 | 1.8 | 1.24 | 23.0 | 1120 | 84 |

*Non-Compacted circular conductor, all other compacted circular conductor.

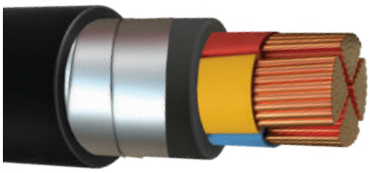
**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 24 | 76D4-03C02500-G0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.2 | 19.8 | 1.8 | 1.24 | 23.0 | 1120 | 84 |
| 25 | 76D4-03C03500-G0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.2 | 22.2 | 1.8 | 1.24 | 25.4 | 1390 | 93 |
| 26 | 7614-04C00150-G0BK8-NI* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.2 | 10.4 | 1.8 | 1.24 | 13.6 | 290 | 47 |
| 27 | 7614-04C00250-G0BK8-NI* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.2 | 11.5 | 1.8 | 1.24 | 14.7 | 355 | 51 |
| 28 | 7614-04C00400-G0BK8-NI* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.2 | 12.7 | 1.8 | 1.24 | 15.9 | 435 | 56 |
| 29 | 7614-04C00600-G0BK8-NI* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.2 | 14.1 | 1.8 | 1.24 | 17.3 | 545 | 61 |
| 30 | 7614-04C01000-G0BK8-NI* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.2 | 16.4 | 1.8 | 1.24 | 19.6 | 750 | 70 |
| 31 | 76D4-04C01600-G0BK8-NI | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.2 | 18.0 | 1.8 | 1.24 | 21.2 | 980 | 77 |
| 32 | 7614-05C00150-G0BK8-NI-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.2 | 11.3 | 1.8 | 1.24 | 14.5 | 330 | 50 |
| 33 | 7614-05C00250-G0BK8-NI-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.2 | 12.4 | 1.8 | 1.24 | 15.6 | 400 | 55 |
| 34 | 7614-05C00400-G0BK8-NI-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.2 | 13.8 | 1.8 | 1.24 | 17.0 | 500 | 60 |
| 35 | 7614-05C00600-G0BK8-NI-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.2 | 15.4 | 1.8 | 1.24 | 18.6 | 635 | 66 |
| 36 | 7614-05C01000-G0BK8-NI-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.2 | 17.9 | 1.8 | 1.24 | 21.1 | 885 | 76 |
| 37 | 76D4-05C01600-G0BK8-NI-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.2 | 19.7 | 1.8 | 1.24 | 22.9 | 1170 | 83 |
| 38 | 76D4-05C02500-G0BK8-NI-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.2 | 24.0 | 1.8 | 1.24 | 27.2 | 1680 | 100 |
| 39 | 76D4-05C03500-G0BK8-NI-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.2 | 26.9 | 1.9 | 1.32 | 30.3 | 2215 | 119 |
| 40 | 76D4-05C05000-G0BK8-NI-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.2 | 31.5 | 2.1 | 1.48 | 35.3 | 2960 | 153 |
| 41 | 76D4-05C07000-G0BK8-NI-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.5 | 37.4 | 2.3 | 1.64 | 41.4 | 4440 | 198 |
| 42 | 76D4-05C09500-G0BK8-NI-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.5 | 42.2 | 2.4 | 1.72 | 46.4 | 5765 | 232 |
| 43 | 76D4-05C12000-G0BK8-NI-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.5 | 46.6 | 2.6 | 1.88 | 51.2 | 7135 | 278 |

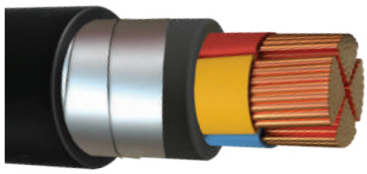
*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



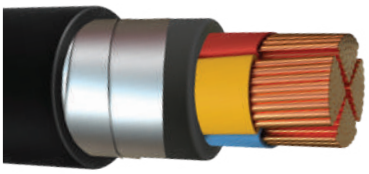
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-G0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.2 | 17.3 | 1.8 | 1.24 | 20.5 | 1060 | 74 |
| 2 | 76F4-03C03500-G0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.2 | 19.2 | 1.8 | 1.24 | 22.4 | 1370 | 81 |
| 3 | 76F4-03C05000-G0BK8-00 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.2 | 22.0 | 1.9 | 1.32 | 25.4 | 1810 | 98 |
| 4 | 76F4-03C07000-G0BK8-00 | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.2 | 25.5 | 2.0 | 1.40 | 29.1 | 2490 | 119 |
| 5 | 76F4-03C09500-G0BK8-00 | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 0.5 | 29.6 | 2.2 | 1.56 | 33.6 | 3555 | 152 |
| 6 | 76F4-03C12000-G0BK8-00 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.5 | 32.5 | 2.3 | 1.64 | 36.5 | 4350 | 173 |
| 7 | 76F4-03C15000-G0BK8-00 | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.5 | 36.4 | 2.4 | 1.72 | 40.6 | 5335 | 202 |
| 8 | 76F4-03C18500-G0BK8-00 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.5 | 40.0 | 2.6 | 1.88 | 44.6 | 6440 | 240 |
| 9 | 76F4-03C24000-G0BK8-00 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.5 | 44.7 | 2.8 | 2.04 | 49.5 | 8260 | 288 |
| 10 | 76F4-03C30000-G0BK8-00 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.5 | 48.9 | 2.9 | 2.12 | 53.9 | 10225 | 325 |
| 11 | 76F4-03C40000-G0BK8-00 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.5 | 55.3 | 3.2 | 2.36 | 60.9 | 12755 | 406 |
| 12 | 76F4-04C02500-G0BK8-00 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.2 | 20.2 | 1.8 | 1.24 | 23.4 | 1360 | 85 |
| 13 | 76F4-04C03500-G0BK8-00 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.2 | 22.6 | 1.8 | 1.24 | 25.8 | 1770 | 95 |
| 14 | 76F4-04C05000-G0BK8-00 | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.2 | 26.1 | 2.0 | 1.40 | 29.7 | 2375 | 122 |
| 15 | 76F4-04C07000-G0BK8-00 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.5 | 31.5 | 2.1 | 1.48 | 35.3 | 3600 | 153 |
| 16 | 76F4-04C09500-G0BK8-00 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.5 | 35.0 | 2.3 | 1.64 | 39.0 | 4605 | 186 |
| 17 | 76F4-04C12000-G0BK8-00 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.5 | 39.0 | 2.4 | 1.72 | 43.2 | 5740 | 215 |
| 18 | 76F4-04C15000-G0BK8-00 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.5 | 43.3 | 2.6 | 1.88 | 47.9 | 7000 | 259 |
| 19 | 76F4-04C18500-G0BK8-00 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.5 | 47.7 | 2.7 | 1.96 | 52.5 | 8465 | 296 |
| 20 | 76F4-04C24000-G0BK8-00 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.5 | 53.4 | 3.0 | 2.20 | 58.6 | 10885 | 367 |
| 21 | 76F4-04C30000-G0BK8-00 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.5 | 58.6 | 3.1 | 2.28 | 64.0 | 13490 | 415 |
| 22 | 76F4-04C40000-G0BK8-00 | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.5 | 66.9 | 3.5 | 2.60 | 72.9 | 16940 | 534 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-G0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.2 | 17.3 | 1.8 | 1.24 | 20.5 | 1060 | 74 |
| 2 | 76F4-03C03500-G0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.2 | 19.2 | 1.8 | 1.24 | 22.4 | 1370 | 81 |
| 3 | 76F4-03C05000-G0BK8-0A | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.2 | 22.0 | 1.9 | 1.32 | 25.4 | 1810 | 98 |
| 4 | 76F4-03C07000-G0BK8-0A | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.2 | 25.5 | 2.0 | 1.40 | 29.1 | 2490 | 119 |
| 5 | 76F4-03C09500-G0BK8-0A | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 0.5 | 29.6 | 2.2 | 1.56 | 33.6 | 3555 | 152 |
| 6 | 76F4-03C12000-G0BK8-0A | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.5 | 32.5 | 2.3 | 1.64 | 36.5 | 4350 | 173 |
| 7 | 76F4-03C15000-G0BK8-0A | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.5 | 36.4 | 2.4 | 1.72 | 40.6 | 5335 | 202 |
| 8 | 76F4-03C18500-G0BK8-0A | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.5 | 40.0 | 2.6 | 1.88 | 44.6 | 6440 | 240 |
| 9 | 76F4-03C24000-G0BK8-0A | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.5 | 44.7 | 2.8 | 2.04 | 49.5 | 8260 | 288 |
| 10 | 76F4-03C30000-G0BK8-0A | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.5 | 48.9 | 2.9 | 2.12 | 53.9 | 10225 | 325 |
| 11 | 76F4-03C40000-G0BK8-0A | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.5 | 55.3 | 3.2 | 2.36 | 60.9 | 12755 | 406 |
| 12 | 76F4-04C02500-G0BK8-0A | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.2 | 20.2 | 1.8 | 1.24 | 23.4 | 1360 | 85 |
| 13 | 76F4-04C03500-G0BK8-0A | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.2 | 22.6 | 1.8 | 1.24 | 25.8 | 1770 | 95 |
| 14 | 76F4-04C05000-G0BK8-0A | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.2 | 26.1 | 2.0 | 1.40 | 29.7 | 2375 | 122 |
| 15 | 76F4-04C07000-G0BK8-0A | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.5 | 31.5 | 2.1 | 1.48 | 35.3 | 3600 | 153 |
| 16 | 76F4-04C09500-G0BK8-0A | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.5 | 35.0 | 2.3 | 1.64 | 39.0 | 4605 | 186 |
| 17 | 76F4-04C12000-G0BK8-0A | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.5 | 39.0 | 2.4 | 1.72 | 43.2 | 5740 | 215 |
| 18 | 76F4-04C15000-G0BK8-0A | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.5 | 43.3 | 2.6 | 1.88 | 47.9 | 7000 | 259 |
| 19 | 76F4-04C18500-G0BK8-0A | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.5 | 47.7 | 2.7 | 1.96 | 52.5 | 8465 | 296 |
| 20 | 76F4-04C24000-G0BK8-0A | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.5 | 53.4 | 3.0 | 2.20 | 58.6 | 10885 | 367 |
| 21 | 76F4-04C30000-G0BK8-0A | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.5 | 58.6 | 3.1 | 2.28 | 64.0 | 13490 | 415 |
| 22 | 76F4-04C40000-G0BK8-0A | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.5 | 66.9 | 3.5 | 2.60 | 72.9 | 16940 | 534 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-G0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.2 | 17.3 | 1.8 | 1.24 | 20.5 | 1060 | 74 |
| 2 | 76F4-03C03500-G0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.2 | 19.2 | 1.8 | 1.24 | 22.4 | 1370 | 81 |
| 3 | 76F4-03C05000-G0BK8-NI | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.2 | 22.0 | 1.9 | 1.32 | 25.4 | 1810 | 98 |
| 4 | 76F4-03C07000-G0BK8-NI | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.2 | 25.5 | 2.0 | 1.40 | 29.1 | 2490 | 119 |
| 5 | 76F4-03C09500-G0BK8-NI | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 0.5 | 29.6 | 2.2 | 1.56 | 33.6 | 3555 | 152 |
| 6 | 76F4-03C12000-G0BK8-NI | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.5 | 32.5 | 2.3 | 1.64 | 36.5 | 4350 | 173 |
| 7 | 76F4-03C15000-G0BK8-NI | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.5 | 36.4 | 2.4 | 1.72 | 40.6 | 5335 | 202 |
| 8 | 76F4-03C18500-G0BK8-NI | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.5 | 40.0 | 2.6 | 1.88 | 44.6 | 6440 | 240 |
| 9 | 76F4-03C24000-G0BK8-NI | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.5 | 44.7 | 2.8 | 2.04 | 49.5 | 8260 | 288 |
| 10 | 76F4-03C30000-G0BK8-NI | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.5 | 48.9 | 2.9 | 2.12 | 53.9 | 10225 | 325 |
| 11 | 76F4-03C40000-G0BK8-NI | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.5 | 55.3 | 3.2 | 2.36 | 60.9 | 12755 | 406 |
| 12 | 76F4-04C02500-G0BK8-NI | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.2 | 20.2 | 1.8 | 1.24 | 23.4 | 1360 | 85 |
| 13 | 76F4-04C03500-G0BK8-NI | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.2 | 22.6 | 1.8 | 1.24 | 25.8 | 1770 | 95 |
| 14 | 76F4-04C05000-G0BK8-NI | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.2 | 26.1 | 2.0 | 1.40 | 29.7 | 2375 | 122 |
| 15 | 76F4-04C07000-G0BK8-NI | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.5 | 31.5 | 2.1 | 1.48 | 35.3 | 3600 | 153 |
| 16 | 76F4-04C09500-G0BK8-NI | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.5 | 35.0 | 2.3 | 1.64 | 39.0 | 4605 | 186 |
| 17 | 76F4-04C12000-G0BK8-NI | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.5 | 39.0 | 2.4 | 1.72 | 43.2 | 5740 | 215 |
| 18 | 76F4-04C15000-G0BK8-NI | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.5 | 43.3 | 2.6 | 1.88 | 47.9 | 7000 | 259 |
| 19 | 76F4-04C18500-G0BK8-NI | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.5 | 47.7 | 2.7 | 1.96 | 52.5 | 8465 | 296 |
| 20 | 76F4-04C24000-G0BK8-NI | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.5 | 53.4 | 3.0 | 2.20 | 58.6 | 10885 | 367 |
| 21 | 76F4-04C30000-G0BK8-NI | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.5 | 58.6 | 3.1 | 2.28 | 64.0 | 13490 | 415 |
| 22 | 76F4-04C40000-G0BK8-NI | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.5 | 66.9 | 3.5 | 2.60 | 72.9 | 16940 | 534 |

# LV POWER, SINGLE CORE, ARMOURED CABLE

CU/XLPE/LSZH/AWA/LSZH

SPECIFICATION: IEC 60502-1

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 1C: Black |
| Inner Sheath | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1 in Black Color. |
| Armor | A single layer of Aluminium wire armor is applied over the inner sheath. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/AWA/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

*Other Insulation color available on request.
**Other sheath color available on request.
***Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

## TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76D4-01C02500-A0BK8-H0 | 1C | 25 | 7 | 0.9 | 1.0 | 9.9 | 1.6 | 13.1 | 1.4 | 0.92 | 15.7 | 480 | 44 |
| 2 | 76D4-01C03500-A0BK8-H0 | 1C | 35 | 7 | 0.9 | 1.0 | 11.0 | 1.6 | 14.2 | 1.4 | 0.92 | 16.8 | 604 | 47 |
| 3 | 76D4-01C05000-A0BK8-H0 | 1C | 50 | 19 | 1.0 | 1.0 | 12.5 | 1.6 | 15.7 | 1.5 | 1.00 | 18.5 | 760 | 56 |
| 4 | 76D4-01C07000-A0BK8-H0 | 1C | 70 | 19 | 1.1 | 1.0 | 14.3 | 1.6 | 17.5 | 1.5 | 1.00 | 20.3 | 994 | 62 |
| 5 | 76D4-01C09500-A0BK8-H0 | 1C | 95 | 19 | 1.1 | 1.0 | 15.9 | 1.6 | 19.1 | 1.6 | 1.08 | 22.1 | 1250 | 72 |
| 6 | 76D4-01C12000-A0BK8-H0 | 1C | 120 | 19 | 1.2 | 1.0 | 17.5 | 1.6 | 20.7 | 1.7 | 1.16 | 23.7 | 1522 | 82 |
| 7 | 76D4-01C15000-A0BK8-H0 | 1C | 150 | 19 | 1.4 | 1.0 | 19.5 | 1.6 | 22.7 | 1.7 | 1.16 | 25.7 | 1830 | 90 |
| 8 | 76D4-01C18500-A0BK8-H0 | 1C | 185 | 37 | 1.6 | 1.0 | 21.5 | 1.6 | 24.7 | 1.8 | 1.24 | 27.9 | 2205 | 103 |
| 9 | 76D4-01C24000-A0BK8-H0 | 1C | 240 | 37 | 1.7 | 1.0 | 23.9 | 1.6 | 27.1 | 1.9 | 1.32 | 30.5 | 2795 | 119 |
| 10 | 76D4-01C30000-A0BK8-H0 | 1C | 300 | 37 | 1.8 | 1.0 | 26.2 | 1.6 | 29.4 | 2.0 | 1.40 | 33.0 | 3400 | 136 |
| 11 | 76D4-01C40000-A0BK8-H0 | 1C | 400 | 61 | 2.0 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 4400 | 166 |
| 12 | 76D4-01C50000-A0BK8-H0 | 1C | 500 | 61 | 2.2 | 1.2 | 33.4 | 2.0 | 37.4 | 2.2 | 1.56 | 41.4 | 5495 | 190 |
| 13 | 76D4-01C63000-A0BK8-H0 | 1C | 630 | 61 | 2.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.3 | 1.64 | 45.5 | 6950 | 218 |
| 14 | 76D4-01C80000-A0BK8-H0 | 1C | 800 | 61 | 2.6 | 1.4 | 41.9 | 2.5 | 46.9 | 2.5 | 1.80 | 51.5 | 9125 | 269 |
| 15 | 76D4-1C100000-A0BK8-H0 | 1C | 1000 | 61 | 2.8 | 1.4 | 46.9 | 2.5 | 51.9 | 2.7 | 1.96 | 56.9 | 11325 | 322 |
| 16 | 7614-01C80000-A0BK8-H0* | 1C | 800 | 91 | 2.6 | 1.4 | 45.3 | 2.5 | 50.3 | 2.5 | 1.80 | 54.9 | 9275 | 288 |
| 17 | 7614-1C100000-A0BK8-H0* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.7 | 1.96 | 60.2 | 11475 | 341 |
| 18 | 7614-1C100000-A0BK8-H0* | 1C | 1000 | 91 | 2.8 | 1.4 | 50.2 | 2.5 | 55.2 | 2.7 | 1.96 | 60.2 | 11475 | 341 |

*Non-Compacted circular conductor, other compacted circular conductor

# LV POWER, MULTI CORE, ARMOURED CABLE

CU/XLPE/LSZH/GSWA/LSZH

SPECIFICATION: IEC 60502-1

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1 in Black Color. |
| Armor | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/GSWA/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
Cables with Two/Three/Four and half core is available on request. The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:

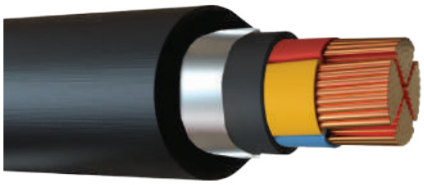
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-H0* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.9 | 10.2 | 1.8 | 1.24 | 13.4 | 320 | 46 |
| 2 | 7614-02C00250-W0BK8-H0* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.9 | 11.0 | 1.8 | 1.24 | 14.2 | 360 | 49 |
| 3 | 7614-02C00400-W0BK8-H0* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.9 | 12.0 | 1.8 | 1.24 | 15.2 | 415 | 53 |
| 4 | 7614-02C00600-W0BK8-H0* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.9 | 13.2 | 1.8 | 1.24 | 16.4 | 490 | 58 |
| 5 | 7614-02C01000-W0BK8-H0* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 720 | 68 |
| 6 | 76D4-02C01600-W0BK8-H0 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 865 | 73 |
| 7 | 76D4-02C02500-W0BK8-H0 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 1.6 | 21.0 | 1.8 | 1.24 | 24.2 | 1270 | 89 |
| 8 | 76D4-02C03500-W0BK8-H0 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.6 | 23.2 | 1.8 | 1.24 | 26.4 | 1550 | 97 |
| 9 | 76D4-02C05000-W0BK8-H0 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1925 | 110 |
| 10 | 76D4-02C07000-W0BK8-H0 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 1.6 | 29.7 | 2.0 | 1.40 | 33.3 | 2480 | 138 |
| 11 | 76D4-02C09500-W0BK8-H0 | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3370 | 166 |
| 12 | 76D4-02C12000-W0BK8-H0 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.0 | 37.5 | 2.2 | 1.56 | 41.5 | 4015 | 190 |
| 13 | 76D4-02C15000-W0BK8-H0 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 2.0 | 41.3 | 2.3 | 1.64 | 45.5 | 4770 | 218 |
| 14 | 76D4-02C18500-W0BK8-H0 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 2.5 | 46.7 | 2.5 | 1.80 | 51.3 | 6110 | 268 |
| 15 | 76D4-02C24000-W0BK8-H0 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 2.5 | 51.6 | 2.7 | 1.96 | 56.6 | 7500 | 320 |
| 16 | 76D4-02C30000-W0BK8-H0 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 2.5 | 56.7 | 2.8 | 2.04 | 61.9 | 9090 | 364 |
| 17 | 76D4-02C40000-W0BK8-H0 | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 2.5 | 63.8 | 3.1 | 2.28 | 69.6 | 11125 | 453 |
| 18 | 7614-03C00150-W0BK8-H0* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.9 | 10.7 | 1.8 | 1.24 | 13.9 | 350 | 48 |
| 19 | 7614-03C00250-W0BK8-H0* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.9 | 11.6 | 1.8 | 1.24 | 14.8 | 405 | 51 |
| 20 | 7614-03C00400-W0BK8-H0* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.9 | 12.7 | 1.8 | 1.24 | 15.9 | 480 | 56 |
| 21 | 7614-03C00600-W0BK8-H0* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.9 | 14.0 | 1.8 | 1.24 | 17.2 | 580 | 61 |
| 22 | 7614-03C01000-W0BK8-H0* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 860 | 72 |
| 23 | 76D4-03C01600-W0BK8-H0 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 1050 | 77 |
| 24 | 76D4-03C02500-W0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.6 | 22.2 | 1.8 | 1.24 | 25.4 | 1555 | 93 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 25 | 76D4-03C03500-W0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.6 | 24.6 | 1.8 | 1.24 | 27.8 | 1945 | 103 |
| 26 | 7614-04C00150-W0BK8-H0* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.9 | 11.4 | 1.8 | 1.24 | 14.6 | 385 | 51 |
| 27 | 7614-04C00250-W0BK8-H0* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 460 | 55 |
| 28 | 7614-04C00400-W0BK8-H0* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.9 | 13.7 | 1.8 | 1.24 | 16.9 | 550 | 60 |
| 29 | 7614-04C00600-W0BK8-H0* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 770 | 68 |
| 30 | 7614-04C01000-W0BK8-H0* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 1.25 | 18.1 | 1.8 | 1.24 | 21.3 | 1010 | 77 |
| 31 | 76D4-04C01600-W0BK8-H0 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 1.6 | 20.4 | 1.8 | 1.24 | 23.6 | 1380 | 86 |
| 32 | 7614-05C00150-W0BK8-H0-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.9 | 12.3 | 1.8 | 1.24 | 15.5 | 435 | 54 |
| 33 | 7614-05C00250-W0BK8-H0-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 16.6 | 510 | 59 |
| 34 | 7614-05C00400-W0BK8-H0-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 1.25 | 15.5 | 1.8 | 1.24 | 18.7 | 715 | 67 |
| 35 | 7614-05C00600-W0BK8-H0-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 1.25 | 17.1 | 1.8 | 1.24 | 20.3 | 880 | 73 |
| 36 | 7614-05C01000-W0BK8-H0-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 1.25 | 19.6 | 1.8 | 1.24 | 22.8 | 1170 | 83 |
| 37 | 76D4-05C01600-W0BK8-H0-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.6 | 22.1 | 1.8 | 1.24 | 25.3 | 1605 | 93 |
| 38 | 76D4-05C02500-W0BK8-H0-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.6 | 26.4 | 1.8 | 1.24 | 29.6 | 2220 | 110 |
| 39 | 76D4-05C03500-W0BK8-H0-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2815 | 129 |
| 40 | 76D4-05C05000-W0BK8-H0-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 34.7 | 2.1 | 1.48 | 38.5 | 3890 | 168 |
| 41 | 76D4-05C07000-W0BK8-H0-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.0 | 39.4 | 2.3 | 1.64 | 43.6 | 5150 | 209 |
| 42 | 76D4-05C09500-W0BK8-H0-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 2.5 | 45.2 | 2.5 | 1.80 | 49.8 | 6960 | 260 |
| 43 | 76D4-05C12000-W0BK8-H0-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 2.5 | 49.6 | 2.6 | 1.88 | 54.4 | 8435 | 296 |

**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-W0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.6 | 19.7 | 1.8 | 1.24 | 22.9 | 1450 | 83 |
| 2 | 76F4-03C03500-W0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1795 | 91 |
| 3 | 76F4-03C05000-W0BK8-H0 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.6 | 24.4 | 1.9 | 1.32 | 27.8 | 2295 | 108 |
| 4 | 76F4-03C07000-W0BK8-H0 | 3C | 70 | 19 | 1.1 | 1.2 | 25.1 | 2.0 | 28.7 | 2.0 | 1.40 | 32.3 | 3260 | 133 |
| 5 | 76F4-03C09500-W0BK8-H0 | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.0 | 31.6 | 2.2 | 1.56 | 35.6 | 4100 | 162 |
| 6 | 76F4-03C12000-W0BK8-H0 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.0 | 34.5 | 2.3 | 1.64 | 38.7 | 4960 | 184 |
| 7 | 76F4-03C15000-W0BK8-H0 | 3C | 150 | 19 | 1.4 | 1.4 | 35.1 | 2.5 | 39.6 | 2.5 | 1.80 | 44.0 | 6390 | 228 |
| 8 | 76F4-03C18500-W0BK8-H0 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.5 | 43.0 | 2.6 | 1.88 | 47.8 | 7575 | 258 |
| 9 | 76F4-03C24000-W0BK8-H0 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 2.5 | 47.7 | 2.8 | 2.04 | 52.9 | 9535 | 308 |
| 10 | 76F4-03C30000-W0BK8-H0 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 2.5 | 51.9 | 3.0 | 2.20 | 57.5 | 11660 | 360 |
| 11 | 76F4-03C40000-W0BK8-H0 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 2.5 | 58.3 | 3.2 | 2.36 | 64.3 | 14340 | 430 |
| 12 | 76F4-04C02500-W0BK8-H0 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.6 | 22.6 | 1.8 | 1.24 | 25.8 | 1810 | 95 |
| 13 | 76F4-04C03500-W0BK8-H0 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.6 | 25.0 | 1.9 | 1.32 | 28.4 | 2280 | 111 |
| 14 | 76F4-04C05000-W0BK8-H0 | 4C | 50 | 19 | 1.0 | 1.0 | 25.0 | 1.6 | 28.2 | 2.0 | 1.40 | 31.9 | 2950 | 131 |
| 15 | 76F4-04C07000-W0BK8-H0 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.0 | 33.5 | 2.2 | 1.56 | 37.5 | 4180 | 171 |
| 16 | 76F4-04C09500-W0BK8-H0 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.0 | 37.0 | 2.3 | 1.64 | 41.2 | 5280 | 197 |
| 17 | 76F4-04C12000-W0BK8-H0 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.5 | 42.0 | 2.5 | 1.80 | 46.6 | 6865 | 242 |
| 18 | 76F4-04C15000-W0BK8-H0 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.5 | 46.3 | 2.6 | 1.88 | 51.1 | 8190 | 277 |
| 19 | 76F4-04C18500-W0BK8-H0 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.5 | 50.7 | 2.8 | 2.04 | 55.9 | 9815 | 327 |
| 20 | 76F4-04C24000-W0BK8-H0 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 2.5 | 56.4 | 3.0 | 2.20 | 62.0 | 12415 | 389 |
| 21 | 76F4-04C30000-W0BK8-H0 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 2.5 | 61.6 | 3.2 | 2.36 | 67.6 | 15205 | 453 |
| 22 | 76F4-04C40000-W0BK8-H0 | 4C | 400 | 61 | 2.0 | 1.8 | 64.8 | 3.15 | 71.1 | 3.5 | 2.60 | 77.8 | 19690 | 572 |

*Non-Compacted circular conductor, all other compacted circular conductor.

# CONTROL, MULTI CORE, ARMOURED CABLE

CU/XLPE/LSZH/GSWA/LSZH

SPECIFICATION: IEC 60502-1


| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C & Above: Black cores with Number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1 in Black Color. |
| Armor | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/GSWA/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR<br>IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-W0BK8-H0 | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.9 | 10.2 | 1.8 | 1.24 | 13.4 | 320 | 46 |
| 2 | 7614-03C00150-W0BK8-H0 | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.9 | 10.7 | 1.8 | 1.24 | 13.9 | 350 | 48 |
| 3 | 7614-04C00150-W0BK8-H0 | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.7 | 0.9 | 11.5 | 1.8 | 1.24 | 14.7 | 380 | 51 |
| 4 | 7614-05C00150-W0BK8-H0 | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 430 | 55 |
| 5 | 7614-06C00150-W0BK8-H0 | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 17.0 | 505 | 60 |
| 6 | 7614-07C00150-W0BK8-H0 | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.6 | 0.9 | 13.4 | 1.8 | 1.24 | 17.0 | 520 | 60 |
| 7 | 7614-08C00150-W0BK8-H0 | 8 | 1.5 | 7 | 0.7 | 1.0 | 13.0 | 1.25 | 15.5 | 1.8 | 1.24 | 19.1 | 674 | 68 |
| 8 | 7614-10C00150-W0BK8-H0 | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.7 | 1.25 | 17.2 | 1.8 | 1.24 | 20.8 | 779 | 75 |
| 9 | 7614-12C00150-W0BK8-H0 | 12 | 1.5 | 7 | 0.7 | 1.0 | 15.2 | 1.25 | 17.7 | 1.8 | 1.24 | 21.3 | 870 | 77 |
| 10 | 7614-14C00150-W0BK8-H0 | 14 | 1.5 | 7 | 0.7 | 1.0 | 16.0 | 1.25 | 18.5 | 1.8 | 1.24 | 22.1 | 905 | 80 |
| 11 | 7614-15C00150-W0BK8-H0 | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 960 | 84 |
| 12 | 7614-16C00150-W0BK8-H0 | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 980 | 84 |
| 13 | 7614-18C00150-W0BK8-H0 | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1055 | 87 |
| 14 | 7614-19C00150-W0BK8-H0 | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1070 | 87 |
| 15 | 7614-20C00150-W0BK8-H0 | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1260 | 94 |
| 16 | 7614-22C00150-W0BK8-H0 | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1345 | 99 |
| 17 | 7614-24C00150-W0BK8-H0 | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1445 | 102 |
| 18 | 7614-25C00150-W0BK8-H0 | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1460 | 102 |
| 19 | 7614-26C00150-W0BK8-H0 | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.9 | 1.6 | 24.1 | 1.8 | 1.24 | 27.7 | 1480 | 102 |
| 20 | 7614-30C00150-W0BK8-H0 | 30 | 1.5 | 7 | 0.7 | 1.0 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 29.0 | 1615 | 108 |
| 21 | 7614-32C00150-W0BK8-H0 | 32 | 1.5 | 7 | 0.7 | 1.0 | 23.0 | 1.6 | 26.2 | 1.8 | 1.24 | 29.8 | 1686 | 111 |
| 22 | 7614-35C00150-W0BK8-H0 | 35 | 1.5 | 7 | 0.7 | 1.0 | 24.0 | 1.6 | 27.2 | 1.8 | 1.24 | 30.8 | 1770 | 115 |
| 23 | 7614-36C00150-W0BK8-H0 | 36 | 1.5 | 7 | 0.7 | 1.0 | 24.0 | 1.6 | 27.2 | 1.8 | 1.24 | 30.8 | 1800 | 115 |
| 24 | 7614-40C00150-W0BK8-H0 | 40 | 1.5 | 7 | 0.7 | 1.0 | 25.0 | 1.6 | 28.2 | 1.9 | 1.32 | 32.0 | 1930 | 126 |
| 25 | 7614-50C00150-W0BK8-H0 | 50 | 1.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2290 | 146 |

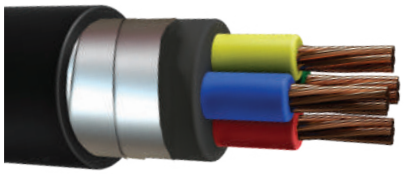
**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 26 | 7614-61C00150-W0BK8-H0 | 61 | 1.5 | 7 | 0.7 | 1.2 | 30.6 | 2.0 | 34.6 | 2.1 | 1.48 | 38.8 | 2910 | 169 |
| 27 | 7614-02C00250-W0BK8-H0 | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.9 | 11.0 | 1.8 | 1.24 | 14.2 | 360 | 49 |
| 28 | 7614-03C00250-W0BK8-H0 | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.9 | 11.6 | 1.8 | 1.24 | 14.8 | 400 | 51 |
| 29 | 7614-04C00250-W0BK8-H0 | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.9 | 12.5 | 1.8 | 1.24 | 15.7 | 455 | 55 |
| 30 | 7614-05C00250-W0BK8-H0 | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.8 | 0.9 | 13.6 | 1.8 | 1.24 | 16.8 | 510 | 59 |
| 31 | 7614-06C00250-W0BK8-H0 | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.9 | 1.25 | 15.4 | 1.8 | 1.24 | 19.0 | 690 | 68 |
| 32 | 7614-07C00250-W0BK8-H0 | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.9 | 1.25 | 15.4 | 1.8 | 1.24 | 19.0 | 720 | 68 |
| 33 | 7614-08C00250-W0BK8-H0 | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.5 | 1.25 | 17.0 | 1.8 | 1.24 | 20.6 | 815 | 74 |
| 34 | 7614-10C00250-W0BK8-H0 | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.4 | 1.25 | 18.9 | 1.8 | 1.24 | 22.5 | 940 | 82 |
| 35 | 7614-12C00250-W0BK8-H0 | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.9 | 1.25 | 19.4 | 1.8 | 1.24 | 23.0 | 1025 | 84 |
| 36 | 7614-14C00250-W0BK8-H0 | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.8 | 1.25 | 20.3 | 1.8 | 1.24 | 23.9 | 1105 | 87 |
| 37 | 7614-15C00250-W0BK8-H0 | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1305 | 94 |
| 38 | 7614-16C00250-W0BK8-H0 | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.8 | 1.6 | 22.0 | 1.8 | 1.24 | 25.6 | 1330 | 94 |
| 39 | 7614-18C00250-W0BK8-H0 | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1440 | 99 |
| 40 | 7614-19C00250-W0BK8-H0 | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.7 | 1465 | 99 |
| 41 | 7614-20C00250-W0BK8-H0 | 20 | 2.5 | 7 | 0.7 | 1.0 | 21.1 | 1.6 | 24.3 | 1.8 | 1.24 | 27.9 | 1557 | 103 |
| 42 | 7614-22C00250-W0BK8-H0 | 22 | 2.5 | 7 | 0.7 | 1.0 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 29.0 | 1654 | 108 |
| 43 | 7614-24C00250-W0BK8-H0 | 24 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1770 | 112 |
| 44 | 7614-25C00250-W0BK8-H0 | 25 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1800 | 112 |
| 45 | 7614-26C00250-W0BK8-H0 | 26 | 2.5 | 7 | 0.7 | 1.0 | 23.4 | 1.6 | 26.6 | 1.8 | 1.24 | 30.2 | 1830 | 112 |
| 46 | 7614-30C00250-W0BK8-H0 | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.8 | 1.6 | 28.0 | 1.9 | 1.32 | 31.8 | 2030 | 125 |
| 47 | 7614-32C00250-W0BK8-H0 | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.9 | 2130 | 129 |
| 48 | 7614-35C00250-W0BK8-H0 | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2250 | 134 |
| 49 | 7614-36C00250-W0BK8-H0 | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.9 | 1.6 | 30.1 | 1.9 | 1.32 | 33.9 | 2285 | 134 |
| 50 | 7614-40C00250-W0BK8-H0 | 40 | 2.5 | 7 | 0.7 | 1.0 | 28.1 | 1.6 | 31.3 | 2.0 | 1.40 | 35.3 | 2460 | 146 |
| 51 | 7614-50C00250-W0BK8-H0 | 50 | 2.5 | 7 | 0.7 | 1.2 | 32.1 | 2.0 | 36.1 | 2.1 | 1.48 | 40.3 | 3240 | 176 |
| 52 | 7614-61C00250-W0BK8-H0 | 61 | 2.5 | 7 | 0.7 | 1.2 | 34.3 | 2.0 | 38.3 | 2.2 | 1.56 | 42.7 | 3700 | 196 |

# LV POWER, MULTI CORE, STEEL TAPE ARMOURED CABLE

CU/XLPE/LSZH/DSTA/LSZH

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and witching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

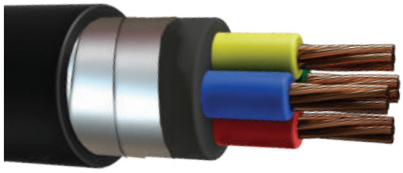
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black Color. |
| Steel Tape Armor | Double galvanized steel tape applied helically over the inner sheath as per IEC-60502-1. |
| Outer Sheath** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/DSTA/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR<br>IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

*Other Insulation color available on request.
**Other sheath color available on request.
*** Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
Cables with Two/Three/Four and half core is available on request. The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

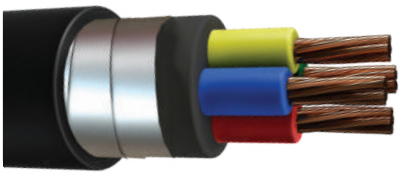
**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7614-02C00150-G0BK8-H0* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.2 | 9.2 | 1.8 | 1.24 | 12.4 | 225 | 42 |
| 2 | 7614-02C00250-G0BK8-H0* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.2 | 10.0 | 1.8 | 1.24 | 13.2 | 260 | 45 |
| 3 | 7614-02C00400-G0BK8-H0* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.2 | 11.0 | 1.8 | 1.24 | 14.2 | 310 | 49 |
| 4 | 7614-02C00600-G0BK8-H0* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.2 | 12.2 | 1.8 | 1.24 | 15.4 | 375 | 54 |
| 5 | 7614-02C01000-G0BK8-H0* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.2 | 14.1 | 1.8 | 1.24 | 17.3 | 490 | 61 |
| 6 | 76D4-02C01600-G0BK8-H0 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.2 | 15.4 | 1.8 | 1.24 | 18.6 | 615 | 66 |
| 7 | 76D4-02C02500-G0BK8-H0 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.2 | 18.6 | 1.8 | 1.24 | 21.8 | 850 | 79 |
| 8 | 76D4-02C03500-G0BK8-H0 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.2 | 20.8 | 1.8 | 1.24 | 24.0 | 1080 | 88 |
| 9 | 76D4-02C05000-G0BK8-H0 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.2 | 23.9 | 1.8 | 1.24 | 27.1 | 1380 | 100 |
| 10 | 76D4-02C07000-G0BK8-H0 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.2 | 27.3 | 1.9 | 1.32 | 30.7 | 1840 | 120 |
| 11 | 76D4-02C09500-G0BK8-H0 | 2C | 95 | 19 | 1.1 | 1.2 | 30.0 | 0.2 | 31.0 | 2.0 | 1.40 | 34.6 | 2405 | 143 |
| 12 | 76D4-02C12000-G0BK8-H0 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.5 | 35.5 | 2.2 | 1.56 | 39.5 | 3350 | 180 |
| 13 | 76D4-02C15000-G0BK8-H0 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.5 | 39.3 | 2.3 | 1.64 | 43.3 | 4000 | 207 |
| 14 | 76D4-02C18500-G0BK8-H0 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.5 | 43.7 | 2.5 | 1.80 | 48.1 | 4855 | 251 |
| 15 | 76D4-02C24000-G0BK8-H0 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.5 | 48.6 | 2.6 | 1.88 | 53.2 | 6105 | 289 |
| 16 | 76D4-02C30000-G0BK8-H0 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.5 | 53.7 | 2.8 | 2.04 | 58.5 | 7530 | 343 |
| 17 | 76D4-02C40000-G0BK8-H0 | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.5 | 60.8 | 3.0 | 2.20 | 66.0 | 9320 | 416 |
| 18 | 7614-03C00150-G0BK8-H0* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.2 | 9.7 | 1.8 | 1.24 | 12.9 | 255 | 44 |
| 19 | 7614-03C00250-G0BK8-H0* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.2 | 10.6 | 1.8 | 1.24 | 13.8 | 300 | 47 |
| 20 | 7614-03C00400-G0BK8-H0* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.2 | 11.7 | 1.8 | 1.24 | 14.9 | 365 | 52 |
| 21 | 7614-03C00600-G0BK8-H0* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.2 | 13.0 | 1.8 | 1.24 | 16.2 | 455 | 57 |
| 22 | 7614-03C01000-G0BK8-H0* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.2 | 15.0 | 1.8 | 1.24 | 18.2 | 615 | 65 |
| 23 | 76D4-03C01600-G0BK8-H0 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.2 | 16.4 | 1.8 | 1.24 | 19.6 | 790 | 70 |
| 24 | 76D4-03C02500-G0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.2 | 19.8 | 1.8 | 1.24 | 23.0 | 1110 | 84 |
| 25 | 76D4-03C03500-G0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.2 | 22.2 | 1.8 | 1.24 | 25.4 | 1450 | 93 |

## TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)

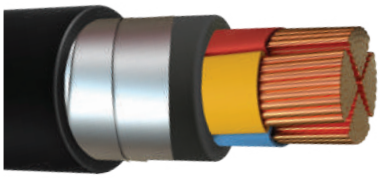
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 26 | 7614-04C00150-G0BK8-H0* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.2 | 10.4 | 1.8 | 1.24 | 13.6 | 285 | 47 |
| 27 | 7614-04C00250-G0BK8-H0* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.2 | 11.5 | 1.8 | 1.24 | 14.7 | 350 | 51 |
| 28 | 7614-04C00400-G0BK8-H0* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.2 | 12.7 | 1.8 | 1.24 | 15.9 | 430 | 56 |
| 29 | 7614-04C00600-G0BK8-H0* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.2 | 14.1 | 1.8 | 1.24 | 17.3 | 540 | 61 |
| 30 | 7614-04C01000-G0BK8-H0* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.2 | 16.4 | 1.8 | 1.24 | 19.6 | 745 | 70 |
| 31 | 76D4-04C01600-G0BK8-H0 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.2 | 18.0 | 1.8 | 1.24 | 21.2 | 975 | 77 |
| 32 | 7614-05C00150-G0BK8-H0-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.2 | 11.3 | 1.8 | 1.24 | 14.5 | 325 | 50 |
| 33 | 7614-05C00250-G0BK8-H0-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.2 | 12.4 | 1.8 | 1.24 | 15.6 | 395 | 55 |
| 34 | 7614-05C00400-G0BK8-H0-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.2 | 13.8 | 1.8 | 1.24 | 17.0 | 495 | 60 |
| 35 | 7614-05C00600-G0BK8-H0-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.2 | 15.4 | 1.8 | 1.24 | 18.6 | 630 | 66 |
| 36 | 7614-05C01000-G0BK8-H0-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.2 | 17.9 | 1.8 | 1.24 | 21.1 | 880 | 76 |
| 37 | 76D4-05C01600-G0BK8-H0-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.2 | 19.7 | 1.8 | 1.24 | 22.9 | 1160 | 83 |
| 38 | 76D4-05C02500-G0BK8-H0-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.2 | 24.0 | 1.8 | 1.24 | 27.2 | 1670 | 100 |
| 39 | 76D4-05C03500-G0BK8-H0-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.2 | 26.9 | 1.9 | 1.32 | 30.3 | 2205 | 119 |
| 40 | 76D4-05C05000-G0BK8-H0-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.2 | 31.5 | 2.1 | 1.48 | 35.3 | 2945 | 153 |
| 41 | 76D4-05C07000-G0BK8-H0-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.5 | 37.4 | 2.3 | 1.64 | 41.4 | 4420 | 198 |
| 42 | 76D4-05C09500-G0BK8-H0-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.5 | 42.2 | 2.4 | 1.72 | 46.4 | 5740 | 232 |
| 43 | 76D4-05C12000-G0BK8-H0-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.5 | 46.6 | 2.6 | 1.88 | 51.2 | 7110 | 278 |

*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:

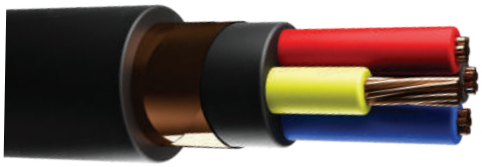


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 76F4-03C02500-G0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.2 | 17.3 | 1.8 | 1.24 | 20.5 | 1055 | 74 |
| 2 | 76F4-03C03500-G0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.2 | 19.2 | 1.8 | 1.24 | 22.4 | 1365 | 81 |
| 3 | 76F4-03C05000-G0BK8-H0 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.2 | 22.0 | 1.9 | 1.32 | 25.4 | 1800 | 98 |
| 4 | 76F4-03C07000-G0BK8-H0 | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.2 | 25.5 | 2.0 | 1.40 | 29.1 | 2480 | 119 |
| 5 | 76F4-03C09500-G0BK8-H0 | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 0.5 | 29.6 | 2.2 | 1.56 | 33.6 | 3540 | 152 |
| 6 | 76F4-03C12000-G0BK8-H0 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.5 | 32.5 | 2.3 | 1.64 | 36.5 | 4330 | 173 |
| 7 | 76F4-03C15000-G0BK8-H0 | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.5 | 36.4 | 2.4 | 1.72 | 40.6 | 5315 | 202 |
| 8 | 76F4-03C18500-G0BK8-H0 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.5 | 40.0 | 2.6 | 1.88 | 44.6 | 6415 | 240 |
| 9 | 76F4-03C24000-G0BK8-H0 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.5 | 44.7 | 2.8 | 2.04 | 49.5 | 8230 | 288 |
| 10 | 76F4-03C30000-G0BK8-H0 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.5 | 48.9 | 2.9 | 2.12 | 53.9 | 10190 | 325 |
| 11 | 76F4-03C40000-G0BK8-H0 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.5 | 55.3 | 3.2 | 2.36 | 60.9 | 12720 | 406 |
| 12 | 76F4-04C02500-G0BK8-H0 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.2 | 20.2 | 1.8 | 1.24 | 23.4 | 1350 | 85 |
| 13 | 76F4-04C03500-G0BK8-H0 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.2 | 22.6 | 1.8 | 1.24 | 25.8 | 1760 | 95 |
| 14 | 76F4-04C05000-G0BK8-H0 | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.2 | 26.1 | 2.0 | 1.40 | 29.7 | 2360 | 122 |
| 15 | 76F4-04C07000-G0BK8-H0 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.5 | 31.5 | 2.1 | 1.48 | 35.3 | 3580 | 153 |
| 16 | 76F4-04C09500-G0BK8-H0 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.5 | 35.0 | 2.3 | 1.64 | 39.0 | 4590 | 186 |
| 17 | 76F4-04C12000-G0BK8-H0 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.5 | 39.0 | 2.4 | 1.72 | 43.2 | 5715 | 215 |
| 18 | 76F4-04C15000-G0BK8-H0 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.5 | 43.3 | 2.6 | 1.88 | 47.9 | 6970 | 259 |
| 19 | 76F4-04C18500-G0BK8-H0 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.5 | 47.7 | 2.7 | 1.96 | 52.5 | 8435 | 296 |
| 20 | 76F4-04C24000-G0BK8-H0 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.5 | 53.4 | 3.0 | 2.20 | 58.6 | 10850 | 367 |
| 21 | 76F4-04C30000-G0BK8-H0 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.5 | 58.6 | 3.1 | 2.28 | 64.0 | 13450 | 415 |
| 22 | 76F4-04C40000-G0BK8-H0 | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.5 | 66.9 | 3.5 | 2.60 | 72.9 | 16885 | 534 |

# POWER, MULTI CORE SCREENED UNARMOURED CABLE

CU/XLPE/PVC/CUT/PVC

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings. |

## CONSTRUCTION

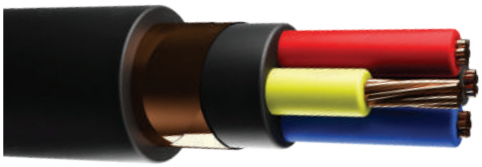
| | |
|---|---|
| Conductor | Stranded annealed plain copper Class 2 of IEC 60228. |
| Insulation | Cross linked Polyethylene (XLPE) to IEC-60502-1. |
| Color Code* | 2 Core: Red & Black.<br>3 Core: Red, Yellow & Blue.<br>4 Core: Red, Yellow, Blue & Black.<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Flame retardant PVC compatible to conductor operating temperature in Black color. |
| Metallic Screen** | The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. |
| Outer Sheath*** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black |
| Marking on the sheath | Example - CU/XLPE/PVC SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

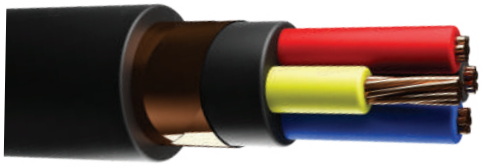
*Other Insulation color available on request.
**Copper tape with thickness 0.075/0.10/0.12mm are also available on request.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:



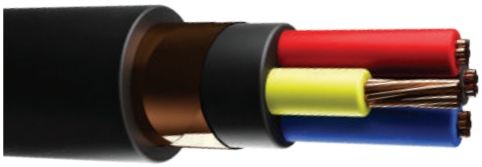
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-U0BK8-00 | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.8 | 1.24 | 11.8 | 180 | 40 |
| 2 | 7714-02C00250-U0BK8-00 | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.8 | 1.24 | 12.6 | 210 | 43 |
| 3 | 7714-02C00400-U0BK8-00 | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.05 | 10.4 | 1.8 | 1.24 | 13.6 | 255 | 47 |
| 4 | 7714-02C00600-U0BK8-00 | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.8 | 1.24 | 14.8 | 310 | 51 |
| 5 | 7714-02C01000-U0BK8-00 | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.8 | 1.24 | 16.7 | 420 | 59 |
| 6 | 7714-03C00150-U0BK8-00 | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.8 | 1.24 | 12.3 | 205 | 42 |
| 7 | 7714-03C00250-U0BK8-00 | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.8 | 1.24 | 13.2 | 250 | 45 |
| 8 | 7714-03C00400-U0BK8-00 | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.05 | 11.1 | 1.8 | 1.24 | 14.3 | 310 | 49 |
| 9 | 7714-03C00600-U0BK8-00 | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.05 | 12.4 | 1.8 | 1.24 | 15.6 | 390 | 55 |
| 10 | 7714-03C01000-U0BK8-00 | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.8 | 1.24 | 17.6 | 540 | 62 |
| 11 | 7714-04C00150-U0BK8-00 | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.8 | 1.24 | 13.0 | 235 | 44 |
| 12 | 7714-04C00250-U0BK8-00 | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.8 | 1.24 | 14.1 | 290 | 49 |
| 13 | 7714-04C00400-U0BK8-00 | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.05 | 12.1 | 1.8 | 1.24 | 15.3 | 365 | 53 |
| 14 | 7714-04C00600-U0BK8-00 | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.8 | 1.24 | 16.7 | 470 | 59 |
| 15 | 7714-04C01000-U0BK8-00 | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.8 | 1.24 | 19.0 | 665 | 68 |
| 16 | 7714-05C00150-U0BK8-00-02 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.8 | 1.24 | 13.9 | 270 | 48 |
| 17 | 7714-05C00250-U0BK8-00-02 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.8 | 1.24 | 15.0 | 330 | 52 |
| 18 | 7714-05C00400-U0BK8-00-02 | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.05 | 13.2 | 1.8 | 1.24 | 16.4 | 425 | 58 |
| 19 | 7714-05C00600-U0BK8-00-02 | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.8 | 1.24 | 18.0 | 550 | 64 |
| 20 | 7714-05C01000-U0BK8-00-02 | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.05 | 17.3 | 1.8 | 1.24 | 20.5 | 790 | 74 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
NON-COMPACTED CIRCULAR CONDUCTOR:



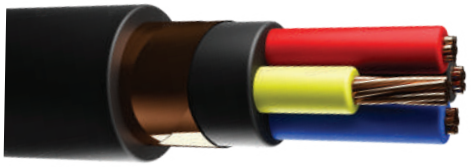
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | ARMOR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-U0BK8-0A | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.8 | 1.24 | 11.8 | 180 | 40 |
| 2 | 7714-02C00250-U0BK8-0A | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.8 | 1.24 | 12.6 | 210 | 43 |
| 3 | 7714-02C00400-U0BK8-0A | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.05 | 10.4 | 1.8 | 1.24 | 13.6 | 255 | 47 |
| 4 | 7714-02C00600-U0BK8-0A | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.8 | 1.24 | 14.8 | 310 | 51 |
| 5 | 7714-02C01000-U0BK8-0A | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.8 | 1.24 | 16.7 | 420 | 59 |
| 6 | 7714-03C00150-U0BK8-0A | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.8 | 1.24 | 12.3 | 205 | 42 |
| 7 | 7714-03C00250-U0BK8-0A | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.8 | 1.24 | 13.2 | 250 | 45 |
| 8 | 7714-03C00400-U0BK8-0A | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.05 | 11.1 | 1.8 | 1.24 | 14.3 | 310 | 49 |
| 9 | 7714-03C00600-U0BK8-0A | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.05 | 12.4 | 1.8 | 1.24 | 15.6 | 390 | 55 |
| 10 | 7714-03C01000-U0BK8-0A | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.8 | 1.24 | 17.6 | 540 | 62 |
| 11 | 7714-04C00150-U0BK8-0A | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.8 | 1.24 | 13.0 | 235 | 44 |
| 12 | 7714-04C00250-U0BK8-0A | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.8 | 1.24 | 14.1 | 290 | 49 |
| 13 | 7714-04C00400-U0BK8-0A | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.05 | 12.1 | 1.8 | 1.24 | 15.3 | 365 | 53 |
| 14 | 7714-04C00600-U0BK8-0A | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.8 | 1.24 | 16.7 | 470 | 59 |
| 15 | 7714-04C01000-U0BK8-0A | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.8 | 1.24 | 19.0 | 665 | 68 |
| 16 | 7714-05C00150-U0BK8-0A-02 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.8 | 1.24 | 13.9 | 270 | 48 |
| 17 | 7714-05C00250-U0BK8-0A-02 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.8 | 1.24 | 15.0 | 330 | 52 |
| 18 | 7714-05C00400-U0BK8-0A-02 | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.05 | 13.2 | 1.8 | 1.24 | 16.4 | 425 | 58 |
| 19 | 7714-05C00600-U0BK8-0A-02 | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.8 | 1.24 | 18.0 | 550 | 64 |
| 20 | 7714-05C01000-U0BK8-0A-02 | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.05 | 17.3 | 1.8 | 1.24 | 20.5 | 790 | 74 |

**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:



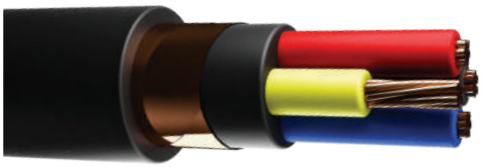
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-U0BK8-NI | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.8 | 1.24 | 11.8 | 180 | 40 |
| 2 | 7714-02C00250-U0BK8-NI | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.8 | 1.24 | 12.6 | 210 | 43 |
| 3 | 7714-02C00400-U0BK8-NI | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.05 | 10.4 | 1.8 | 1.24 | 13.6 | 255 | 47 |
| 4 | 7714-02C00600-U0BK8-NI | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.8 | 1.24 | 14.8 | 310 | 51 |
| 5 | 7714-02C01000-U0BK8-NI | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.8 | 1.24 | 16.7 | 420 | 59 |
| 6 | 7714-03C00150-U0BK8-NI | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.8 | 1.24 | 12.3 | 205 | 42 |
| 7 | 7714-03C00250-U0BK8-NI | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.8 | 1.24 | 13.2 | 250 | 45 |
| 8 | 7714-03C00400-U0BK8-NI | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.05 | 11.1 | 1.8 | 1.24 | 14.3 | 310 | 49 |
| 9 | 7714-03C00600-U0BK8-NI | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.05 | 12.4 | 1.8 | 1.24 | 15.6 | 390 | 55 |
| 10 | 7714-03C01000-U0BK8-NI | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.8 | 1.24 | 17.6 | 540 | 62 |
| 11 | 7714-04C00150-U0BK8-NI | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.8 | 1.24 | 13.0 | 235 | 44 |
| 12 | 7714-04C00250-U0BK8-NI | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.8 | 1.24 | 14.1 | 290 | 49 |
| 13 | 7714-04C00400-U0BK8-NI | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.05 | 12.1 | 1.8 | 1.24 | 15.3 | 365 | 53 |
| 14 | 7714-04C00600-U0BK8-NI | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.8 | 1.24 | 16.7 | 470 | 59 |
| 15 | 7714-04C01000-U0BK8-NI | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.8 | 1.24 | 19.0 | 665 | 68 |
| 16 | 7714-05C00150-U0BK8-NI-02 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.8 | 1.24 | 13.9 | 270 | 48 |
| 17 | 7714-05C00250-U0BK8-NI-02 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.8 | 1.24 | 15.0 | 330 | 52 |
| 18 | 7714-05C00400-U0BK8-NI-02 | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.05 | 13.2 | 1.8 | 1.24 | 16.4 | 425 | 58 |
| 19 | 7714-05C00600-U0BK8-NI-02 | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.8 | 1.24 | 18.0 | 550 | 64 |
| 20 | 7714-05C01000-U0BK8-NI-02 | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.05 | 17.3 | 1.8 | 1.24 | 20.5 | 790 | 74 |

**TABLE: IEC 60332-3-24 (CAT C)**
COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 77D4-02C01600-U0BK8-00 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.8 | 1.24 | 18.0 | 540 | 64 |
| 2 | 77D4-02C02500-U0BK8-00 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.05 | 18.0 | 1.8 | 1.24 | 21.2 | 760 | 77 |
| 3 | 77D4-02C03500-U0BK8-00 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.05 | 20.2 | 1.8 | 1.24 | 23.4 | 980 | 85 |
| 4 | 77D4-02C05000-U0BK8-00 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.05 | 23.3 | 1.8 | 1.24 | 26.5 | 1260 | 98 |
| 5 | 77D4-02C07000-U0BK8-00 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.05 | 26.7 | 1.9 | 1.32 | 30.1 | 1710 | 118 |
| 6 | 77D4-02C09500-U0BK8-00 | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 0.05 | 30.4 | 2.0 | 1.40 | 34.0 | 2255 | 141 |
| 7 | 77D4-02C12000-U0BK8-00 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.05 | 33.7 | 2.1 | 1.48 | 37.5 | 2800 | 163 |
| 8 | 77D4-02C15000-U0BK8-00 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.05 | 37.5 | 2.2 | 1.56 | 41.5 | 3410 | 190 |
| 9 | 77D4-02C18500-U0BK8-00 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.05 | 41.9 | 2.3 | 1.64 | 45.9 | 4155 | 220 |
| 10 | 77D4-02C24000-U0BK8-00 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.05 | 46.8 | 2.5 | 1.80 | 51.2 | 5350 | 268 |
| 11 | 77D4-02C30000-U0BK8-00 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.05 | 51.9 | 2.7 | 1.96 | 56.7 | 6725 | 321 |
| 12 | 77D4-02C40000-U0BK8-00 | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.05 | 59.0 | 2.9 | 2.12 | 64.0 | 8380 | 390 |
| 13 | 77D4-03C01600-U0BK8-00 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.8 | 1.24 | 19.0 | 705 | 68 |
| 14 | 77D4-03C02500-U0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.05 | 19.2 | 1.8 | 1.24 | 22.4 | 1015 | 81 |
| 15 | 77D4-03C03500-U0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.05 | 21.6 | 1.8 | 1.24 | 24.8 | 1330 | 91 |
| 16 | 77D4-04C01600-U0BK8-00 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.05 | 17.4 | 1.8 | 1.24 | 20.6 | 885 | 74 |
| 17 | 77D4-05C01600-U0BK8-00-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.05 | 19.1 | 1.8 | 1.24 | 22.3 | 1060 | 81 |
| 18 | 77D4-05C02500-U0BK8-00-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.05 | 23.4 | 1.8 | 1.24 | 26.6 | 1555 | 98 |
| 19 | 77D4-05C03500-U0BK8-00-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.05 | 26.3 | 1.8 | 1.24 | 29.5 | 2060 | 110 |
| 20 | 77D4-05C05000-U0BK8-00-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.05 | 30.9 | 2.0 | 1.40 | 34.5 | 2800 | 143 |
| 21 | 77D4-05C07000-U0BK8-00-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.05 | 35.6 | 2.1 | 1.48 | 39.4 | 3840 | 172 |
| 22 | 77D4-05C09500-U0BK8-00-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.05 | 40.4 | 2.3 | 1.64 | 44.4 | 5085 | 213 |
| 23 | 77D4-05C12000-U0BK8-00-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 2.4 | 1.72 | 49.0 | 6360 | 246 |

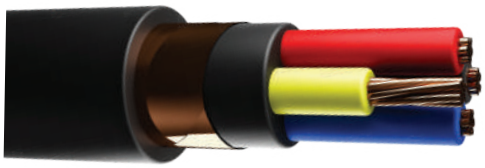
**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 77D4-02C01600-U0BK8-0A | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.8 | 1.24 | 18.0 | 540 | 64 |
| 2 | 77D4-02C02500-U0BK8-0A | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.05 | 18.0 | 1.8 | 1.24 | 21.2 | 760 | 77 |
| 3 | 77D4-02C03500-U0BK8-0A | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.05 | 20.2 | 1.8 | 1.24 | 23.4 | 980 | 85 |
| 4 | 77D4-02C05000-U0BK8-0A | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.05 | 23.3 | 1.8 | 1.24 | 26.5 | 1260 | 98 |
| 5 | 77D4-02C07000-U0BK8-0A | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.05 | 26.7 | 1.9 | 1.32 | 30.1 | 1710 | 118 |
| 6 | 77D4-02C09500-U0BK8-0A | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 0.05 | 30.4 | 2.0 | 1.40 | 34.0 | 2255 | 141 |
| 7 | 77D4-02C12000-U0BK8-0A | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.05 | 33.7 | 2.1 | 1.48 | 37.5 | 2800 | 163 |
| 8 | 77D4-02C15000-U0BK8-0A | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.05 | 37.5 | 2.2 | 1.56 | 41.5 | 3410 | 190 |
| 9 | 77D4-02C18500-U0BK8-0A | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.05 | 41.9 | 2.3 | 1.64 | 45.9 | 4155 | 220 |
| 10 | 77D4-02C24000-U0BK8-0A | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.05 | 46.8 | 2.5 | 1.80 | 51.2 | 5350 | 268 |
| 11 | 77D4-02C30000-U0BK8-0A | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.05 | 51.9 | 2.7 | 1.96 | 56.7 | 6725 | 321 |
| 12 | 77D4-02C40000-U0BK8-0A | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.05 | 59.0 | 2.9 | 2.12 | 64.0 | 8380 | 390 |
| 13 | 77D4-03C01600-U0BK8-0A | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.8 | 1.24 | 19.0 | 705 | 68 |
| 14 | 77D4-03C02500-U0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.05 | 19.2 | 1.8 | 1.24 | 22.4 | 1015 | 81 |
| 15 | 77D4-03C03500-U0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.05 | 21.6 | 1.8 | 1.24 | 24.8 | 1330 | 91 |
| 16 | 77D4-04C01600-U0BK8-0A | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.05 | 17.4 | 1.8 | 1.24 | 20.6 | 885 | 74 |
| 17 | 77D4-05C01600-U0BK8-0A-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.05 | 19.1 | 1.8 | 1.24 | 22.3 | 1060 | 81 |
| 18 | 77D4-05C02500-U0BK8-0A-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.05 | 23.4 | 1.8 | 1.24 | 26.6 | 1555 | 98 |
| 19 | 77D4-05C03500-U0BK8-0A-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.05 | 26.3 | 1.8 | 1.24 | 29.5 | 2060 | 110 |
| 20 | 77D4-05C05000-U0BK8-0A-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.05 | 30.9 | 2.0 | 1.40 | 34.5 | 2800 | 143 |
| 21 | 77D4-05C07000-U0BK8-0A-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.05 | 35.6 | 2.1 | 1.48 | 39.4 | 3840 | 172 |
| 22 | 77D4-05C09500-U0BK8-0A-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.05 | 40.4 | 2.3 | 1.64 | 44.4 | 5085 | 213 |
| 23 | 77D4-05C12000-U0BK8-0A-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 2.4 | 1.72 | 49.0 | 6360 | 246 |

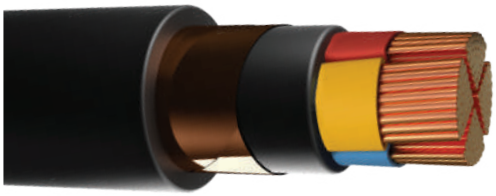
*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**
COMPACTED CIRCULAR CONDUCTOR:



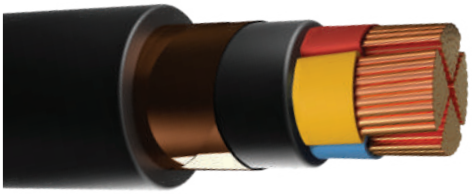
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 77D4-02C01600-U0BK8-NI | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.8 | 1.24 | 18.0 | 540 | 64 |
| 2 | 77D4-02C02500-U0BK8-NI | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.05 | 18.0 | 1.8 | 1.24 | 21.2 | 760 | 77 |
| 3 | 77D4-02C03500-U0BK8-NI | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.05 | 20.2 | 1.8 | 1.24 | 23.4 | 980 | 85 |
| 4 | 77D4-02C05000-U0BK8-NI | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.05 | 23.3 | 1.8 | 1.24 | 26.5 | 1260 | 98 |
| 5 | 77D4-02C07000-U0BK8-NI | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.05 | 26.7 | 1.9 | 1.32 | 30.1 | 1710 | 118 |
| 6 | 77D4-02C09500-U0BK8-NI | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 0.05 | 30.4 | 2.0 | 1.40 | 34.0 | 2255 | 141 |
| 7 | 77D4-02C12000-U0BK8-NI | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.05 | 33.7 | 2.1 | 1.48 | 37.5 | 2800 | 163 |
| 8 | 77D4-02C15000-U0BK8-NI | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.05 | 37.5 | 2.2 | 1.56 | 41.5 | 3410 | 190 |
| 9 | 77D4-02C18500-U0BK8-NI | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.05 | 41.9 | 2.3 | 1.64 | 45.9 | 4155 | 220 |
| 10 | 77D4-02C24000-U0BK8-NI | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.05 | 46.8 | 2.5 | 1.80 | 51.2 | 5350 | 268 |
| 11 | 77D4-02C30000-U0BK8-NI | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.05 | 51.9 | 2.7 | 1.96 | 56.7 | 6725 | 321 |
| 12 | 77D4-02C40000-U0BK8-NI | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.05 | 59.0 | 2.9 | 2.12 | 64.0 | 8380 | 390 |
| 13 | 77D4-03C01600-U0BK8-NI | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.8 | 1.24 | 19.0 | 705 | 68 |
| 14 | 77D4-03C02500-U0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.05 | 19.2 | 1.8 | 1.24 | 22.4 | 1015 | 81 |
| 15 | 77D4-03C03500-U0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.05 | 21.6 | 1.8 | 1.24 | 24.8 | 1330 | 91 |
| 16 | 77D4-04C01600-U0BK8-NI | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.05 | 17.4 | 1.8 | 1.24 | 20.6 | 885 | 74 |
| 17 | 77D4-05C01600-U0BK8-NI-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.05 | 19.1 | 1.8 | 1.24 | 22.3 | 1060 | 81 |
| 18 | 77D4-05C02500-U0BK8-NI-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.05 | 23.4 | 1.8 | 1.24 | 26.6 | 1555 | 98 |
| 19 | 77D4-05C03500-U0BK8-NI-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.05 | 26.3 | 1.8 | 1.24 | 29.5 | 2060 | 110 |
| 20 | 77D4-05C05000-U0BK8-NI-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.05 | 30.9 | 2.0 | 1.40 | 34.5 | 2800 | 143 |
| 21 | 77D4-05C07000-U0BK8-NI-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.05 | 35.6 | 2.1 | 1.48 | 39.4 | 3840 | 172 |
| 22 | 77D4-05C09500-U0BK8-NI-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.05 | 40.4 | 2.3 | 1.64 | 44.4 | 5085 | 213 |
| 23 | 77D4-05C12000-U0BK8-NI-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 2.4 | 1.72 | 49.0 | 6360 | 246 |

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



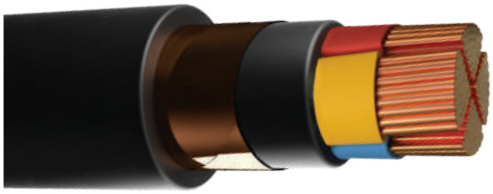
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 77F4-03C02500-U0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.05 | 16.7 | 1.8 | 1.24 | 19.9 | 965 | 72 |
| 2 | 77F4-03C03500-U0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 1265 | 79 |
| 3 | 77F4-03C05000-U0BK8-00 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.05 | 21.4 | 1.8 | 1.24 | 24.6 | 1675 | 90 |
| 4 | 77F4-03C07000-U0BK8-00 | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.05 | 24.9 | 1.9 | 1.32 | 28.3 | 2335 | 110 |
| 5 | 77F4-03C09500-U0BK8-00 | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 0.05 | 27.8 | 2.0 | 1.40 | 31.4 | 3060 | 129 |
| 6 | 77F4-03C12000-U0BK8-00 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.05 | 30.7 | 2.2 | 1.56 | 34.7 | 3840 | 157 |
| 7 | 77F4-03C15000-U0BK8-00 | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.05 | 34.6 | 2.3 | 1.64 | 38.6 | 4725 | 183 |
| 8 | 77F4-03C18500-U0BK8-00 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.05 | 38.2 | 2.4 | 1.72 | 42.4 | 5775 | 211 |
| 9 | 77F4-03C24000-U0BK8-00 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.05 | 42.9 | 2.6 | 1.88 | 47.5 | 7510 | 257 |
| 10 | 77F4-03C30000-U0BK8-00 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.05 | 47.1 | 2.8 | 2.04 | 51.9 | 9425 | 302 |
| 11 | 77F4-03C40000-U0BK8-00 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.05 | 53.5 | 3.1 | 2.28 | 58.9 | 11860 | 380 |
| 12 | 77F4-04C02500-U0BK8-00 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 1250 | 83 |
| 13 | 77F4-04C03500-U0BK8-00 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.05 | 22.0 | 1.8 | 1.24 | 25.2 | 1650 | 93 |
| 14 | 77F4-04C05000-U0BK8-00 | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.05 | 25.5 | 1.9 | 1.32 | 28.9 | 2215 | 113 |
| 15 | 77F4-04C07000-U0BK8-00 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.05 | 29.7 | 2.0 | 1.40 | 33.3 | 3090 | 138 |
| 16 | 77F4-04C09500-U0BK8-00 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.05 | 33.2 | 2.2 | 1.56 | 37.2 | 4065 | 169 |
| 17 | 77F4-04C12000-U0BK8-00 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.05 | 37.2 | 2.3 | 1.64 | 41.2 | 5105 | 197 |
| 18 | 77F4-04C15000-U0BK8-00 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.05 | 41.5 | 2.5 | 1.80 | 45.9 | 6290 | 239 |
| 19 | 77F4-04C18500-U0BK8-00 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.05 | 45.9 | 2.6 | 1.88 | 50.5 | 7695 | 274 |
| 20 | 77F4-04C24000-U0BK8-00 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.05 | 51.6 | 2.8 | 2.04 | 56.4 | 9980 | 330 |
| 21 | 77F4-04C30000-U0BK8-00 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.05 | 56.8 | 3.0 | 2.20 | 62.0 | 12530 | 389 |
| 22 | 77F4-04C40000-U0BK8-00 | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.05 | 65.1 | 3.3 | 2.44 | 70.7 | 15820 | 485 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 77F4-03C02500-U0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.05 | 16.7 | 1.8 | 1.24 | 19.9 | 965 | 72 |
| 2 | 77F4-03C03500-U0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 1265 | 79 |
| 3 | 77F4-03C05000-U0BK8-0A | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.05 | 21.4 | 1.8 | 1.24 | 24.6 | 1675 | 90 |
| 4 | 77F4-03C07000-U0BK8-0A | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.05 | 24.9 | 1.9 | 1.32 | 28.3 | 2335 | 110 |
| 5 | 77F4-03C09500-U0BK8-0A | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 0.05 | 27.8 | 2.0 | 1.40 | 31.4 | 3060 | 129 |
| 6 | 77F4-03C12000-U0BK8-0A | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.05 | 30.7 | 2.2 | 1.56 | 34.7 | 3840 | 157 |
| 7 | 77F4-03C15000-U0BK8-0A | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.05 | 34.6 | 2.3 | 1.64 | 38.6 | 4725 | 183 |
| 8 | 77F4-03C18500-U0BK8-0A | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.05 | 38.2 | 2.4 | 1.72 | 42.4 | 5775 | 211 |
| 9 | 77F4-03C24000-U0BK8-0A | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.05 | 42.9 | 2.6 | 1.88 | 47.5 | 7510 | 257 |
| 10 | 77F4-03C30000-U0BK8-0A | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.05 | 47.1 | 2.8 | 2.04 | 51.9 | 9425 | 302 |
| 11 | 77F4-03C40000-U0BK8-0A | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.05 | 53.5 | 3.1 | 2.28 | 58.9 | 11860 | 380 |
| 12 | 77F4-04C02500-U0BK8-0A | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 1250 | 83 |
| 13 | 77F4-04C03500-U0BK8-0A | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.05 | 22.0 | 1.8 | 1.24 | 25.2 | 1650 | 93 |
| 14 | 77F4-04C05000-U0BK8-0A | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.05 | 25.5 | 1.9 | 1.32 | 28.9 | 2215 | 113 |
| 15 | 77F4-04C07000-U0BK8-0A | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.05 | 29.7 | 2.0 | 1.40 | 33.3 | 3090 | 138 |
| 16 | 77F4-04C09500-U0BK8-0A | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.05 | 33.2 | 2.2 | 1.56 | 37.2 | 4065 | 169 |
| 17 | 77F4-04C12000-U0BK8-0A | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.05 | 37.2 | 2.3 | 1.64 | 41.2 | 5105 | 197 |
| 18 | 77F4-04C15000-U0BK8-0A | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.05 | 41.5 | 2.5 | 1.80 | 45.9 | 6290 | 239 |
| 19 | 77F4-04C18500-U0BK8-0A | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.05 | 45.9 | 2.6 | 1.88 | 50.5 | 7695 | 274 |
| 20 | 77F4-04C24000-U0BK8-0A | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.05 | 51.6 | 2.8 | 2.04 | 56.4 | 9980 | 330 |
| 21 | 77F4-04C30000-U0BK8-0A | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.05 | 56.8 | 3.0 | 2.20 | 62.0 | 12530 | 389 |
| 22 | 77F4-04C40000-U0BK8-0A | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.05 | 65.1 | 3.3 | 2.44 | 70.7 | 15820 | 485 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:

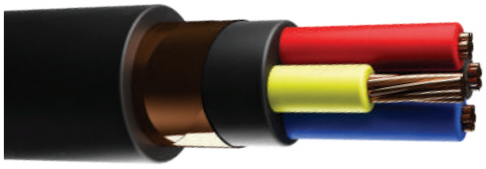


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 77F4-03C02500-U0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.05 | 16.7 | 1.8 | 1.24 | 19.9 | 965 | 72 |
| 2 | 77F4-03C03500-U0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 1265 | 79 |
| 3 | 77F4-03C05000-U0BK8-NI | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.05 | 21.4 | 1.8 | 1.24 | 24.6 | 1675 | 90 |
| 4 | 77F4-03C07000-U0BK8-NI | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.05 | 24.9 | 1.9 | 1.32 | 28.3 | 2335 | 110 |
| 5 | 77F4-03C09500-U0BK8-NI | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 0.05 | 27.8 | 2.0 | 1.40 | 31.4 | 3060 | 129 |
| 6 | 77F4-03C12000-U0BK8-NI | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.05 | 30.7 | 2.2 | 1.56 | 34.7 | 3840 | 157 |
| 7 | 77F4-03C15000-U0BK8-NI | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.05 | 34.6 | 2.3 | 1.64 | 38.6 | 4725 | 183 |
| 8 | 77F4-03C18500-U0BK8-NI | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.05 | 38.2 | 2.4 | 1.72 | 42.4 | 5775 | 211 |
| 9 | 77F4-03C24000-U0BK8-NI | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.05 | 42.9 | 2.6 | 1.88 | 47.5 | 7510 | 257 |
| 10 | 77F4-03C30000-U0BK8-NI | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.05 | 47.1 | 2.8 | 2.04 | 51.9 | 9425 | 302 |
| 11 | 77F4-03C40000-U0BK8-NI | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.05 | 53.5 | 3.1 | 2.28 | 58.9 | 11860 | 380 |
| 12 | 77F4-04C02500-U0BK8-NI | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 1250 | 83 |
| 13 | 77F4-04C03500-U0BK8-NI | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.05 | 22.0 | 1.8 | 1.24 | 25.2 | 1650 | 93 |
| 14 | 77F4-04C05000-U0BK8-NI | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.05 | 25.5 | 1.9 | 1.32 | 28.9 | 2215 | 113 |
| 15 | 77F4-04C07000-U0BK8-NI | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.05 | 29.7 | 2.0 | 1.40 | 33.3 | 3090 | 138 |
| 16 | 77F4-04C09500-U0BK8-NI | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.05 | 33.2 | 2.2 | 1.56 | 37.2 | 4065 | 169 |
| 17 | 77F4-04C12000-U0BK8-NI | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.05 | 37.2 | 2.3 | 1.64 | 41.2 | 5105 | 197 |
| 18 | 77F4-04C15000-U0BK8-NI | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.05 | 41.5 | 2.5 | 1.80 | 45.9 | 6290 | 239 |
| 19 | 77F4-04C18500-U0BK8-NI | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.05 | 45.9 | 2.6 | 1.88 | 50.5 | 7695 | 274 |
| 20 | 77F4-04C24000-U0BK8-NI | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.05 | 51.6 | 2.8 | 2.04 | 56.4 | 9980 | 330 |
| 21 | 77F4-04C30000-U0BK8-NI | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.05 | 56.8 | 3.0 | 2.20 | 62.0 | 12530 | 389 |
| 22 | 77F4-04C40000-U0BK8-NI | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.05 | 65.1 | 3.3 | 2.44 | 70.7 | 15820 | 485 |

# CONTROL, MULTI CORE SCREENED UNARMOURED CABLE

CU/XLPE/PVC/CUT/PVC

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain copper Class 2 of IEC 60228. |
| Insulation | Cross linked Polyethylene (XLPE) to IEC-60502-1. |
| Color Code* | 2 Core: Red & Black.<br>3 Core: Red, Yellow & Blue.<br>4 Core: Red, Yellow, Blue & Black.<br>5C & above: Black core with number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Flame retardant PVC compatible to conductor operating temperature in Black color. |
| Metallic Screen** | The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. |
| Outer Sheath*** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black |
| Marking on the sheath | Example - CU/XLPE/PVC SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

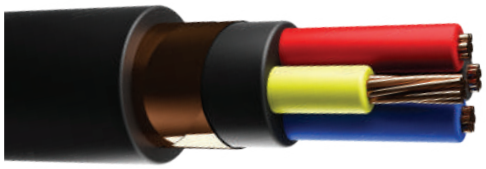
## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request. Cable more than five core and above, last core with protective earth (PE) is available on request and with color Green/Yellow stripe.
**Copper tape with thickness 0.075/0.10/0.12mm are also available on request.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

## TABLE: IEC 60332-3-24 (CAT C)

NON-COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-U0BK8-00 | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.8 | 1.24 | 11.8 | 180 | 40 |
| 2 | 7714-03C00150-U0BK8-00 | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.8 | 1.24 | 12.3 | 205 | 42 |
| 3 | 7714-04C00150-U0BK8-00 | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.8 | 1.24 | 13.0 | 235 | 44 |
| 4 | 7714-05C00150-U0BK8-00 | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.8 | 1.24 | 13.9 | 270 | 48 |
| 5 | 7714-06C00150-U0BK8-00 | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.3 | 0.05 | 11.5 | 1.8 | 1.24 | 14.7 | 300 | 51 |
| 6 | 7714-07C00150-U0BK8-00 | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.3 | 0.05 | 11.5 | 1.8 | 1.24 | 14.7 | 320 | 51 |
| 7 | 7714-08C00150-U0BK8-00 | 8 | 1.5 | 7 | 0.7 | 1.0 | 12.7 | 0.05 | 12.9 | 1.8 | 1.24 | 16.1 | 360 | 57 |
| 8 | 7714-10C00150-U0BK8-00 | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.3 | 0.05 | 14.5 | 1.8 | 1.24 | 17.7 | 425 | 63 |
| 9 | 7714-12C00150-U0BK8-00 | 12 | 1.5 | 7 | 0.7 | 1.0 | 14.8 | 0.05 | 15.0 | 1.8 | 1.24 | 18.2 | 485 | 65 |
| 10 | 7714-14C00150-U0BK8-00 | 14 | 1.5 | 7 | 0.7 | 1.0 | 15.5 | 0.05 | 15.7 | 1.8 | 1.24 | 18.9 | 520 | 68 |
| 11 | 7714-15C00150-U0BK8-00 | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.4 | 0.05 | 16.6 | 1.8 | 1.24 | 19.8 | 555 | 71 |
| 12 | 7714-16C00150-U0BK8-00 | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.4 | 0.05 | 16.6 | 1.8 | 1.24 | 19.8 | 575 | 71 |
| 13 | 7714-18C00150-U0BK8-00 | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.3 | 0.05 | 17.5 | 1.8 | 1.24 | 20.7 | 630 | 75 |
| 14 | 7714-19C00150-U0BK8-00 | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.3 | 0.05 | 17.5 | 1.8 | 1.24 | 20.7 | 645 | 75 |
| 15 | 7714-20C00150-U0BK8-00 | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.3 | 0.05 | 18.5 | 1.8 | 1.24 | 21.7 | 680 | 79 |
| 16 | 7714-22C00150-U0BK8-00 | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.3 | 0.05 | 19.5 | 1.8 | 1.24 | 22.7 | 745 | 83 |
| 17 | 7714-24C00150-U0BK8-00 | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 790 | 87 |
| 18 | 7714-25C00150-U0BK8-00 | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 810 | 87 |
| 19 | 7714-26C00150-U0BK8-00 | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 830 | 87 |
| 20 | 7714-30C00150-U0BK8-00 | 30 | 1.5 | 7 | 0.7 | 1.0 | 21.5 | 0.05 | 21.7 | 1.8 | 1.24 | 24.9 | 925 | 91 |
| 21 | 7714-32C00150-U0BK8-00 | 32 | 1.5 | 7 | 0.7 | 1.0 | 22.4 | 0.05 | 22.6 | 1.8 | 1.24 | 25.8 | 985 | 95 |
| 22 | 7714-35C00150-U0BK8-00 | 35 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.8 | 1.24 | 26.7 | 1055 | 99 |
| 23 | 7714-36C00150-U0BK8-00 | 36 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.8 | 1.24 | 26.7 | 1070 | 99 |
| 24 | 7714-40C00150-U0BK8-00 | 40 | 1.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.8 | 1.24 | 27.7 | 1165 | 102 |
| 25 | 7714-50C00150-U0BK8-00 | 50 | 1.5 | 7 | 0.7 | 1.0 | 27.3 | 0.05 | 27.5 | 1.9 | 1.32 | 30.9 | 1415 | 121 |
| 26 | 7714-61C00150-U0BK8-00 | 61 | 1.5 | 7 | 0.7 | 1.0 | 29.3 | 0.05 | 29.5 | 1.9 | 1.32 | 32.9 | 1665 | 129 |
| 27 | 7714-02C00250-U0BK8-00 | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.8 | 1.24 | 12.6 | 210 | 43 |
| 28 | 7714-03C00250-U0BK8-00 | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.8 | 1.24 | 13.2 | 250 | 45 |
| 29 | 7714-04C00250-U0BK8-00 | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.8 | 1.24 | 14.1 | 290 | 49 |
| 30 | 7714-05C00250-U0BK8-00 | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.8 | 1.24 | 15.0 | 330 | 52 |
| 31 | 7714-06C00250-U0BK8-00 | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.8 | 1.24 | 16.0 | 380 | 56 |
| 32 | 7714-07C00250-U0BK8-00 | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.8 | 1.24 | 16.0 | 405 | 56 |

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 33 | 7714-08C00250-U0BK8-00 | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.1 | 0.05 | 14.3 | 1.8 | 1.24 | 17.5 | 455 | 62 |
| 34 | 7714-10C00250-U0BK8-00 | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.0 | 0.05 | 16.2 | 1.8 | 1.24 | 19.4 | 545 | 70 |
| 35 | 7714-12C00250-U0BK8-00 | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.8 | 1.24 | 19.9 | 620 | 72 |
| 36 | 7714-14C00250-U0BK8-00 | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.8 | 1.24 | 20.8 | 695 | 75 |
| 37 | 7714-15C00250-U0BK8-00 | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 730 | 79 |
| 38 | 7714-16C00250-U0BK8-00 | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 755 | 79 |
| 39 | 7714-18C00250-U0BK8-00 | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 835 | 83 |
| 40 | 7714-19C00250-U0BK8-00 | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 860 | 83 |
| 41 | 7714-20C00250-U0BK8-00 | 20 | 2.5 | 7 | 0.7 | 1.0 | 20.5 | 0.05 | 20.7 | 1.8 | 1.24 | 23.9 | 905 | 87 |
| 42 | 7714-22C00250-U0BK8-00 | 22 | 2.5 | 7 | 0.7 | 1.0 | 21.7 | 0.05 | 21.9 | 1.8 | 1.24 | 25.1 | 980 | 92 |
| 43 | 7714-24C00250-U0BK8-00 | 24 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1055 | 97 |
| 44 | 7714-25C00250-U0BK8-00 | 25 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1085 | 97 |
| 45 | 7714-26C00250-U0BK8-00 | 26 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1115 | 97 |
| 46 | 7714-30C00250-U0BK8-00 | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.2 | 0.05 | 24.4 | 1.8 | 1.24 | 27.6 | 1250 | 102 |
| 47 | 7714-32C00250-U0BK8-00 | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.2 | 0.05 | 25.4 | 1.8 | 1.24 | 28.6 | 1325 | 106 |
| 48 | 7714-35C00250-U0BK8-00 | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 0.05 | 26.4 | 1.8 | 1.24 | 29.6 | 1425 | 110 |
| 49 | 7714-36C00250-U0BK8-00 | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 0.05 | 26.4 | 1.8 | 1.24 | 29.6 | 1455 | 110 |
| 50 | 7714-40C00250-U0BK8-00 | 40 | 2.5 | 7 | 0.7 | 1.0 | 27.3 | 0.05 | 27.5 | 1.9 | 1.32 | 30.9 | 1600 | 121 |
| 51 | 7714-50C00250-U0BK8-00 | 50 | 2.5 | 7 | 0.7 | 1.0 | 30.8 | 0.05 | 31.0 | 2.0 | 1.40 | 34.6 | 1960 | 143 |
| 52 | 7714-61C00250-U0BK8-00 | 61 | 2.5 | 7 | 0.7 | 1.0 | 33.0 | 0.05 | 33.2 | 2.1 | 1.48 | 37.0 | 2335 | 161 |

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-U0BK8-0A | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.8 | 1.24 | 11.8 | 180 | 40 |
| 2 | 7714-03C00150-U0BK8-0A | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.8 | 1.24 | 12.3 | 205 | 42 |
| 3 | 7714-04C00150-U0BK8-0A | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.8 | 1.24 | 13.0 | 235 | 44 |
| 4 | 7714-05C00150-U0BK8-0A | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.8 | 1.24 | 13.9 | 270 | 48 |
| 5 | 7714-06C00150-U0BK8-0A | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.3 | 0.05 | 11.5 | 1.8 | 1.24 | 14.7 | 300 | 51 |
| 6 | 7714-07C00150-U0BK8-0A | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.3 | 0.05 | 11.5 | 1.8 | 1.24 | 14.7 | 320 | 51 |
| 7 | 7714-08C00150-U0BK8-0A | 8 | 1.5 | 7 | 0.7 | 1.0 | 12.7 | 0.05 | 12.9 | 1.8 | 1.24 | 16.1 | 360 | 57 |
| 8 | 7714-10C00150-U0BK8-0A | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.3 | 0.05 | 14.5 | 1.8 | 1.24 | 17.7 | 425 | 63 |
| 9 | 7714-12C00150-U0BK8-0A | 12 | 1.5 | 7 | 0.7 | 1.0 | 14.8 | 0.05 | 15.0 | 1.8 | 1.24 | 18.2 | 485 | 65 |
| 10 | 7714-14C00150-U0BK8-0A | 14 | 1.5 | 7 | 0.7 | 1.0 | 15.5 | 0.05 | 15.7 | 1.8 | 1.24 | 18.9 | 520 | 68 |
| 11 | 7714-15C00150-U0BK8-0A | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.4 | 0.05 | 16.6 | 1.8 | 1.24 | 19.8 | 555 | 71 |
| 12 | 7714-16C00150-U0BK8-0A | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.4 | 0.05 | 16.6 | 1.8 | 1.24 | 19.8 | 575 | 71 |
| 13 | 7714-18C00150-U0BK8-0A | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.3 | 0.05 | 17.5 | 1.8 | 1.24 | 20.7 | 630 | 75 |
| 14 | 7714-19C00150-U0BK8-0A | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.3 | 0.05 | 17.5 | 1.8 | 1.24 | 20.7 | 645 | 75 |
| 15 | 7714-20C00150-U0BK8-0A | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.3 | 0.05 | 18.5 | 1.8 | 1.24 | 21.7 | 680 | 79 |
| 16 | 7714-22C00150-U0BK8-0A | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.3 | 0.05 | 19.5 | 1.8 | 1.24 | 22.7 | 745 | 83 |
| 17 | 7714-24C00150-U0BK8-0A | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 790 | 87 |
| 18 | 7714-25C00150-U0BK8-0A | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 810 | 87 |
| 19 | 7714-26C00150-U0BK8-0A | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 830 | 87 |
| 20 | 7714-30C00150-U0BK8-0A | 30 | 1.5 | 7 | 0.7 | 1.0 | 21.5 | 0.05 | 21.7 | 1.8 | 1.24 | 24.9 | 925 | 91 |
| 21 | 7714-32C00150-U0BK8-0A | 32 | 1.5 | 7 | 0.7 | 1.0 | 22.4 | 0.05 | 22.6 | 1.8 | 1.24 | 25.8 | 985 | 95 |
| 22 | 7714-35C00150-U0BK8-0A | 35 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.8 | 1.24 | 26.7 | 1055 | 99 |
| 23 | 7714-36C00150-U0BK8-0A | 36 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.8 | 1.24 | 26.7 | 1070 | 99 |
| 25 | 7714-40C00150-U0BK8-0A | 40 | 1.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.8 | 1.24 | 27.7 | 1165 | 102 |
| 25 | 7714-50C00150-U0BK8-0A | 50 | 1.5 | 7 | 0.7 | 1.0 | 27.3 | 0.05 | 27.5 | 1.9 | 1.32 | 30.9 | 1415 | 121 |
| 26 | 7714-61C00150-U0BK8-0A | 61 | 1.5 | 7 | 0.7 | 1.0 | 29.3 | 0.05 | 29.5 | 1.9 | 1.32 | 32.9 | 1665 | 129 |
| 27 | 7714-02C00250-U0BK8-0A | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.8 | 1.24 | 12.6 | 210 | 43 |
| 28 | 7714-03C00250-U0BK8-0A | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.8 | 1.24 | 13.2 | 250 | 45 |
| 29 | 7714-04C00250-U0BK8-0A | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.8 | 1.24 | 14.1 | 290 | 49 |
| 30 | 7714-05C00250-U0BK8-0A | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.8 | 1.24 | 15.0 | 330 | 52 |
| 31 | 7714-06C00250-U0BK8-0A | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.8 | 1.24 | 16.0 | 380 | 56 |
| 32 | 7714-07C00250-U0BK8-0A | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.8 | 1.24 | 16.0 | 405 | 56 |

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 33 | 7714-08C00250-U0BK8-0A | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.1 | 0.05 | 14.3 | 1.8 | 1.24 | 17.5 | 455 | 62 |
| 34 | 7714-10C00250-U0BK8-0A | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.0 | 0.05 | 16.2 | 1.8 | 1.24 | 19.4 | 545 | 70 |
| 35 | 7714-12C00250-U0BK8-0A | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.8 | 1.24 | 19.9 | 620 | 72 |
| 36 | 7714-14C00250-U0BK8-0A | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.8 | 1.24 | 20.8 | 695 | 75 |
| 37 | 7714-15C00250-U0BK8-0A | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 730 | 79 |
| 38 | 7714-16C00250-U0BK8-0A | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 755 | 79 |
| 39 | 7714-18C00250-U0BK8-0A | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 835 | 83 |
| 40 | 7714-19C00250-U0BK8-0A | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 860 | 83 |
| 41 | 7714-20C00250-U0BK8-0A | 20 | 2.5 | 7 | 0.7 | 1.0 | 20.5 | 0.05 | 20.7 | 1.8 | 1.24 | 23.9 | 905 | 87 |
| 42 | 7714-22C00250-U0BK8-0A | 22 | 2.5 | 7 | 0.7 | 1.0 | 21.7 | 0.05 | 21.9 | 1.8 | 1.24 | 25.1 | 980 | 92 |
| 43 | 7714-24C00250-U0BK8-0A | 24 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1055 | 97 |
| 44 | 7714-25C00250-U0BK8-0A | 25 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1085 | 97 |
| 45 | 7714-26C00250-U0BK8-0A | 26 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1115 | 97 |
| 46 | 7714-30C00250-U0BK8-0A | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.2 | 0.05 | 24.4 | 1.8 | 1.24 | 27.6 | 1250 | 102 |
| 47 | 7714-32C00250-U0BK8-0A | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.2 | 0.05 | 25.4 | 1.8 | 1.24 | 28.6 | 1325 | 106 |
| 48 | 7714-35C00250-U0BK8-0A | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 0.05 | 26.4 | 1.8 | 1.24 | 29.6 | 1425 | 110 |
| 49 | 7714-36C00250-U0BK8-0A | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 0.05 | 26.4 | 1.8 | 1.24 | 29.6 | 1455 | 110 |
| 50 | 7714-40C00250-U0BK8-0A | 40 | 2.5 | 7 | 0.7 | 1.0 | 27.3 | 0.05 | 27.5 | 1.9 | 1.32 | 30.9 | 1600 | 121 |
| 51 | 7714-50C00250-U0BK8-0A | 50 | 2.5 | 7 | 0.7 | 1.0 | 30.8 | 0.05 | 31.0 | 2.0 | 1.40 | 34.6 | 1960 | 143 |
| 52 | 7714-61C00250-U0BK8-0A | 61 | 2.5 | 7 | 0.7 | 1.0 | 33.0 | 0.05 | 33.2 | 2.1 | 1.48 | 37.0 | 2335 | 161 |

**TABLE: IEC 60332-1-2**

NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-U0BK8-NI | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.8 | 1.24 | 11.8 | 180 | 40 |
| 2 | 7714-03C00150-U0BK8-NI | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.8 | 1.24 | 12.3 | 205 | 42 |
| 3 | 7714-04C00150-U0BK8-NI | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.8 | 1.24 | 13.0 | 235 | 44 |
| 4 | 7714-05C00150-U0BK8-NI | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.8 | 1.24 | 13.9 | 270 | 48 |
| 5 | 7714-06C00150-U0BK8-NI | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.3 | 0.05 | 11.5 | 1.8 | 1.24 | 14.7 | 300 | 51 |
| 6 | 7714-07C00150-U0BK8-NI | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.3 | 0.05 | 11.5 | 1.8 | 1.24 | 14.7 | 320 | 51 |
| 7 | 7714-08C00150-U0BK8-NI | 8 | 1.5 | 7 | 0.7 | 1.0 | 12.7 | 0.05 | 12.9 | 1.8 | 1.24 | 16.1 | 360 | 57 |
| 8 | 7714-10C00150-U0BK8-NI | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.3 | 0.05 | 14.5 | 1.8 | 1.24 | 17.7 | 425 | 63 |
| 9 | 7714-12C00150-U0BK8-NI | 12 | 1.5 | 7 | 0.7 | 1.0 | 14.8 | 0.05 | 15.0 | 1.8 | 1.24 | 18.2 | 485 | 65 |
| 10 | 7714-14C00150-U0BK8-NI | 14 | 1.5 | 7 | 0.7 | 1.0 | 15.5 | 0.05 | 15.7 | 1.8 | 1.24 | 18.9 | 520 | 68 |
| 11 | 7714-15C00150-U0BK8-NI | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.4 | 0.05 | 16.6 | 1.8 | 1.24 | 19.8 | 555 | 71 |
| 12 | 7714-16C00150-U0BK8-NI | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.4 | 0.05 | 16.6 | 1.8 | 1.24 | 19.8 | 575 | 71 |
| 13 | 7714-18C00150-U0BK8-NI | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.3 | 0.05 | 17.5 | 1.8 | 1.24 | 20.7 | 630 | 75 |
| 14 | 7714-19C00150-U0BK8-NI | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.3 | 0.05 | 17.5 | 1.8 | 1.24 | 20.7 | 645 | 75 |
| 15 | 7714-20C00150-U0BK8-NI | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.3 | 0.05 | 18.5 | 1.8 | 1.24 | 21.7 | 680 | 79 |
| 16 | 7714-22C00150-U0BK8-NI | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.3 | 0.05 | 19.5 | 1.8 | 1.24 | 22.7 | 745 | 83 |
| 17 | 7714-24C00150-U0BK8-NI | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 790 | 87 |
| 18 | 7714-25C00150-U0BK8-NI | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 810 | 87 |
| 19 | 7714-26C00150-U0BK8-NI | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 830 | 87 |
| 20 | 7714-30C00150-U0BK8-NI | 30 | 1.5 | 7 | 0.7 | 1.0 | 21.5 | 0.05 | 21.7 | 1.8 | 1.24 | 24.9 | 925 | 91 |
| 21 | 7714-32C00150-U0BK8-NI | 32 | 1.5 | 7 | 0.7 | 1.0 | 22.4 | 0.05 | 22.6 | 1.8 | 1.24 | 25.8 | 985 | 95 |
| 22 | 7714-35C00150-U0BK8-NI | 35 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.8 | 1.24 | 26.7 | 1055 | 99 |
| 23 | 7714-36C00150-U0BK8-NI | 36 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.8 | 1.24 | 26.7 | 1070 | 99 |
| 25 | 7714-40C00150-U0BK8-NI | 40 | 1.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.8 | 1.24 | 27.7 | 1165 | 102 |
| 25 | 7714-50C00150-U0BK8-NI | 50 | 1.5 | 7 | 0.7 | 1.0 | 27.3 | 0.05 | 27.5 | 1.9 | 1.32 | 30.9 | 1415 | 121 |
| 26 | 7714-61C00150-U0BK8-NI | 61 | 1.5 | 7 | 0.7 | 1.0 | 29.3 | 0.05 | 29.5 | 1.9 | 1.32 | 32.9 | 1665 | 129 |
| 27 | 7714-02C00250-U0BK8-NI | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.8 | 1.24 | 12.6 | 210 | 43 |
| 28 | 7714-03C00250-U0BK8-NI | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.8 | 1.24 | 13.2 | 250 | 45 |
| 29 | 7714-04C00250-U0BK8-NI | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.8 | 1.24 | 14.1 | 290 | 49 |
| 30 | 7714-05C00250-U0BK8-NI | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.8 | 1.24 | 15.0 | 330 | 52 |
| 31 | 7714-06C00250-U0BK8-NI | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.8 | 1.24 | 16.0 | 380 | 56 |
| 32 | 7714-07C00250-U0BK8-NI | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.8 | 1.24 | 16.0 | 405 | 56 |

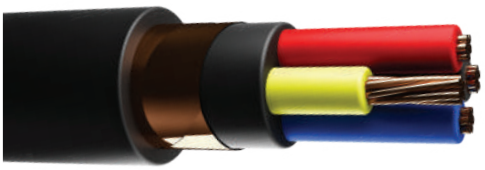
**TABLE: IEC 60332-1-2**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 33 | 7714-08C00250-U0BK8-NI | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.1 | 0.05 | 14.3 | 1.8 | 1.24 | 17.5 | 455 | 62 |
| 34 | 7714-10C00250-U0BK8-NI | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.0 | 0.05 | 16.2 | 1.8 | 1.24 | 19.4 | 545 | 70 |
| 35 | 7714-12C00250-U0BK8-NI | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.8 | 1.24 | 19.9 | 620 | 72 |
| 36 | 7714-14C00250-U0BK8-NI | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.8 | 1.24 | 20.8 | 695 | 75 |
| 37 | 7714-15C00250-U0BK8-NI | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 730 | 79 |
| 38 | 7714-16C00250-U0BK8-NI | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 755 | 79 |
| 39 | 7714-18C00250-U0BK8-NI | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 835 | 83 |
| 40 | 7714-19C00250-U0BK8-NI | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 860 | 83 |
| 41 | 7714-20C00250-U0BK8-NI | 20 | 2.5 | 7 | 0.7 | 1.0 | 20.5 | 0.05 | 20.7 | 1.8 | 1.24 | 23.9 | 905 | 87 |
| 42 | 7714-22C00250-U0BK8-NI | 22 | 2.5 | 7 | 0.7 | 1.0 | 21.7 | 0.05 | 21.9 | 1.8 | 1.24 | 25.1 | 980 | 92 |
| 43 | 7714-24C00250-U0BK8-NI | 24 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1055 | 97 |
| 44 | 7714-25C00250-U0BK8-NI | 25 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1085 | 97 |
| 45 | 7714-26C00250-U0BK8-NI | 26 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1115 | 97 |
| 46 | 7714-30C00250-U0BK8-NI | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.2 | 0.05 | 24.4 | 1.8 | 1.24 | 27.6 | 1250 | 102 |
| 47 | 7714-32C00250-U0BK8-NI | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.2 | 0.05 | 25.4 | 1.8 | 1.24 | 28.6 | 1325 | 106 |
| 48 | 7714-35C00250-U0BK8-NI | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 0.05 | 26.4 | 1.8 | 1.24 | 29.6 | 1425 | 110 |
| 49 | 7714-36C00250-U0BK8-NI | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 0.05 | 26.4 | 1.8 | 1.24 | 29.6 | 1455 | 110 |
| 50 | 7714-40C00250-U0BK8-NI | 40 | 2.5 | 7 | 0.7 | 1.0 | 27.3 | 0.05 | 27.5 | 1.9 | 1.32 | 30.9 | 1600 | 121 |
| 51 | 7714-50C00250-U0BK8-NI | 50 | 2.5 | 7 | 0.7 | 1.0 | 30.8 | 0.05 | 31.0 | 2.0 | 1.40 | 34.6 | 1960 | 143 |
| 52 | 7714-61C00250-U0BK8-NI | 61 | 2.5 | 7 | 0.7 | 1.0 | 33.0 | 0.05 | 33.2 | 2.1 | 1.48 | 37.0 | 2335 | 161 |

# POWER, MULTI CORE SCREENED UNARMOURED CABLE

CU/XLPE/LSZH/CUT/LSZH

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

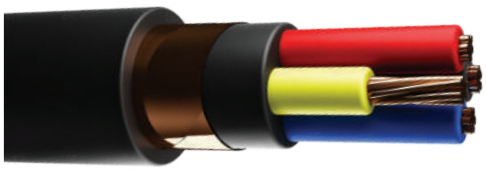
| | |
|---|---|
| Conductor | Stranded annealed plain copper Class 2 of IEC 60228. |
| Insulation | Cross linked Polyethylene (XLPE) to IEC-60502-1. |
| Color Code* | 2 Core: Red & Black.<br>3 Core: Red, Yellow & Blue.<br>4 Core: Red, Yellow, Blue & Black.<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black color. |
| Metallic Screen** | The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. |
| Outer Sheath*** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/LSZH SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

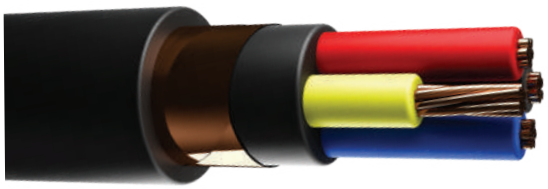
*Other Insulation color available on request.
**Copper tape with thickness 0.075/0.10/0.12mm are also available on request.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA. OVER METALLIC SCREEN | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-U0BK8-H0 | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.8 | 1.24 | 11.8 | 175 | 40 |
| 2 | 7714-02C00250-U0BK8-H0 | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.8 | 1.24 | 12.6 | 205 | 43 |
| 3 | 7714-02C00400-U0BK8-H0 | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.05 | 10.4 | 1.8 | 1.24 | 13.6 | 250 | 47 |
| 4 | 7714-02C00600-U0BK8-H0 | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.8 | 1.24 | 14.8 | 305 | 51 |
| 5 | 7714-02C01000-U0BK8-H0 | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.8 | 1.24 | 16.7 | 415 | 59 |
| 6 | 7714-03C00150-U0BK8-H0 | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.8 | 1.24 | 12.3 | 200 | 42 |
| 7 | 7714-03C00250-U0BK8-H0 | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.8 | 1.24 | 13.2 | 245 | 45 |
| 8 | 7714-03C00400-U0BK8-H0 | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.05 | 11.1 | 1.8 | 1.24 | 14.3 | 305 | 49 |
| 9 | 7714-03C00600-U0BK8-H0 | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.05 | 12.4 | 1.8 | 1.24 | 15.6 | 385 | 55 |
| 10 | 7714-03C01000-U0BK8-H0 | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.8 | 1.24 | 17.6 | 535 | 62 |
| 11 | 7714-04C00150-U0BK8-H0 | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.8 | 1.24 | 13.0 | 230 | 44 |
| 12 | 7714-04C00250-U0BK8-H0 | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.8 | 1.24 | 14.1 | 285 | 49 |
| 13 | 7714-04C00400-U0BK8-H0 | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.05 | 12.1 | 1.8 | 1.24 | 15.3 | 360 | 53 |
| 14 | 7714-04C00600-U0BK8-H0 | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.8 | 1.24 | 16.7 | 460 | 59 |
| 15 | 7714-04C01000-U0BK8-H0 | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.8 | 1.24 | 19.0 | 660 | 68 |
| 16 | 7714-05C00150-U0BK8-H0-02 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.8 | 1.24 | 13.9 | 265 | 48 |
| 17 | 7714-05C00250-U0BK8-H0-02 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.8 | 1.24 | 15.0 | 325 | 52 |
| 18 | 7714-05C00400-U0BK8-H0-02 | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.05 | 13.2 | 1.8 | 1.24 | 16.4 | 420 | 58 |
| 19 | 7714-05C00600-U0BK8-H0-02 | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.8 | 1.24 | 18.0 | 545 | 64 |
| 20 | 7714-05C01000-U0BK8-H0-02 | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.05 | 17.3 | 1.8 | 1.24 | 20.5 | 780 | 74 |

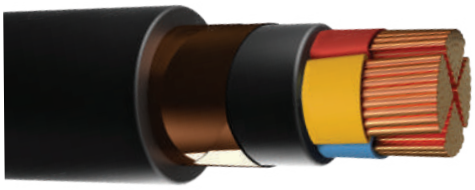
**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA. OVER METALLIC SCREEN | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 77D4-02C01600-U0BK8-H0 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.8 | 1.24 | 18.0 | 535 | 64 |
| 2 | 77D4-02C02500-U0BK8-H0 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.05 | 18.0 | 1.8 | 1.24 | 21.2 | 750 | 77 |
| 3 | 77D4-02C03500-U0BK8-H0 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.05 | 20.2 | 1.8 | 1.24 | 23.4 | 970 | 85 |
| 4 | 77D4-02C05000-U0BK8-H0 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.05 | 23.3 | 1.8 | 1.24 | 26.5 | 1250 | 98 |
| 5 | 77D4-02C07000-U0BK8-H0 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.05 | 26.7 | 1.9 | 1.32 | 30.1 | 1695 | 118 |
| 6 | 77D4-02C09500-U0BK8-H0 | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 0.05 | 30.4 | 2.0 | 1.40 | 34.0 | 2240 | 141 |
| 7 | 77D4-02C12000-U0BK8-H0 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.05 | 33.7 | 2.1 | 1.48 | 37.5 | 2780 | 163 |
| 8 | 77D4-02C15000-U0BK8-H0 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.05 | 37.5 | 2.2 | 1.56 | 41.5 | 3390 | 190 |
| 9 | 77D4-02C18500-U0BK8-H0 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.05 | 41.9 | 2.3 | 1.64 | 45.9 | 4130 | 220 |
| 10 | 77D4-02C24000-U0BK8-H0 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.05 | 46.8 | 2.5 | 1.80 | 51.2 | 5320 | 268 |
| 11 | 77D4-02C30000-U0BK8-H0 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.05 | 51.9 | 2.7 | 1.96 | 56.7 | 6690 | 321 |
| 12 | 77D4-02C40000-U0BK8-H0 | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.05 | 59.0 | 2.9 | 2.12 | 64.0 | 8340 | 390 |
| 13 | 77D4-03C01600-U0BK8-H0 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.8 | 1.24 | 19.0 | 700 | 68 |
| 14 | 77D4-03C02500-U0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.05 | 19.2 | 1.8 | 1.24 | 22.4 | 1005 | 81 |
| 15 | 77D4-03C03500-U0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.05 | 21.6 | 1.8 | 1.24 | 24.8 | 1320 | 91 |
| 16 | 77D4-04C01600-U0BK8-H0 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.05 | 17.4 | 1.8 | 1.24 | 20.6 | 880 | 74 |
| 17 | 77D4-05C01600-U0BK8-H0-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.05 | 19.1 | 1.8 | 1.24 | 22.3 | 1055 | 81 |
| 18 | 77D4-05C02500-U0BK8-H0-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.05 | 23.4 | 1.8 | 1.24 | 26.6 | 1545 | 98 |
| 19 | 77D4-05C03500-U0BK8-H0-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.05 | 26.3 | 1.8 | 1.24 | 29.5 | 2045 | 110 |
| 20 | 77D4-05C05000-U0BK8-H0-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.05 | 30.9 | 2.0 | 1.40 | 34.5 | 2785 | 143 |
| 21 | 77D4-05C07000-U0BK8-H0-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.05 | 35.6 | 2.1 | 1.48 | 39.4 | 3820 | 172 |
| 22 | 77D4-05C09500-U0BK8-H0-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.05 | 40.4 | 2.3 | 1.64 | 44.4 | 5065 | 213 |
| 19 | 77D4-05C12000-U0BK8-H0-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 2.4 | 1.72 | 49.0 | 6335 | 246 |

*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:

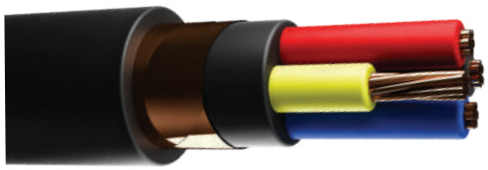


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA. OVER METALLIC SCREEN | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 77F4-03C02500-U0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.05 | 16.7 | 1.8 | 1.24 | 19.9 | 955 | 72 |
| 2 | 77F4-03C03500-U0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 1255 | 79 |
| 3 | 77F4-03C05000-U0BK8-H0 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.05 | 21.4 | 1.8 | 1.24 | 24.6 | 1665 | 90 |
| 4 | 77F4-03C07000-U0BK8-H0 | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.05 | 24.9 | 1.9 | 1.32 | 28.3 | 2325 | 110 |
| 5 | 77F4-03C09500-U0BK8-H0 | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 0.05 | 27.8 | 2.0 | 1.40 | 31.4 | 3045 | 129 |
| 6 | 77F4-03C12000-U0BK8-H0 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.05 | 30.7 | 2.2 | 1.56 | 34.7 | 3820 | 157 |
| 7 | 77F4-03C15000-U0BK8-H0 | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.05 | 34.6 | 2.3 | 1.64 | 38.6 | 4705 | 183 |
| 8 | 77F4-03C18500-U0BK8-H0 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.05 | 38.2 | 2.4 | 1.72 | 42.4 | 5750 | 211 |
| 9 | 77F4-03C24000-U0BK8-H0 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.05 | 42.9 | 2.6 | 1.88 | 47.5 | 7485 | 257 |
| 10 | 77F4-03C30000-U0BK8-H0 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.05 | 47.1 | 2.8 | 2.04 | 51.9 | 9390 | 302 |
| 11 | 77F4-03C40000-U0BK8-H0 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.05 | 53.5 | 3.1 | 2.28 | 58.9 | 11825 | 380 |
| 12 | 77F4-04C02500-U0BK8-H0 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 1240 | 83 |
| 13 | 77F4-04C03500-U0BK8-H0 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.05 | 22.0 | 1.8 | 1.24 | 25.2 | 1640 | 93 |
| 14 | 77F4-04C05000-U0BK8-H0 | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.05 | 25.5 | 1.9 | 1.32 | 28.9 | 2205 | 113 |
| 15 | 77F4-04C07000-U0BK8-H0 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.05 | 29.7 | 2.0 | 1.40 | 33.3 | 3075 | 138 |
| 16 | 77F4-04C09500-U0BK8-H0 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.05 | 33.2 | 2.2 | 1.56 | 37.2 | 4045 | 169 |
| 17 | 77F4-04C12000-U0BK8-H0 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.05 | 37.2 | 2.3 | 1.64 | 41.2 | 5085 | 197 |
| 18 | 77F4-04C15000-U0BK8-H0 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.05 | 41.5 | 2.5 | 1.80 | 45.9 | 6265 | 239 |
| 19 | 77F4-04C18500-U0BK8-H0 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.05 | 45.9 | 2.6 | 1.88 | 50.5 | 7670 | 274 |
| 20 | 77F4-04C24000-U0BK8-H0 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.05 | 51.6 | 2.8 | 2.04 | 56.4 | 9945 | 330 |
| 17 | 77F4-04C30000-U0BK8-H0 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.05 | 56.8 | 3.0 | 2.20 | 62.0 | 12490 | 389 |
| 18 | 77F4-04C40000-U0BK8-H0 | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.05 | 65.1 | 3.3 | 2.44 | 70.7 | 15770 | 485 |

# CONTROL, MULTI CORE SCREENED UNARMOURED CABLE

CU/XLPE/LSZH/CUT/LSZH

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain copper Class 2 of IEC 60228. |
| Insulation | Cross linked Polyethylene (XLPE) to IEC-60502-1. |
| Color Code* | 2 Core: Red & Black.<br>3 Core: Red, Yellow & Blue.<br>4 Core: Red, Yellow, Blue & Black.<br>5C & above: Black core with number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black color. |
| Metallic Screen** | The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. |
| Outer Sheath*** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/LSZH SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%)<br>IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

*Other Insulation color available on request. Cable more than five core and above, last core with protective earth (PE) is available on request and with color Green/Yellow stripe.
**Copper tape with thickness 0.075/0.10/0.12mm are also available on request.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA. OVER METALLIC SCREEN | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-U0BK8-H0 | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.8 | 1.24 | 11.8 | 175 | 40 |
| 2 | 7714-03C00150-U0BK8-H0 | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.8 | 1.24 | 12.3 | 200 | 42 |
| 3 | 7714-04C00150-U0BK8-H0 | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.8 | 1.24 | 13.0 | 230 | 44 |
| 4 | 7714-05C00150-U0BK8-H0 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.8 | 1.24 | 13.9 | 265 | 48 |
| 5 | 7714-06C00150-U0BK8-H0 | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.3 | 0.05 | 11.5 | 1.8 | 1.24 | 14.7 | 295 | 51 |
| 6 | 7714-07C00150-U0BK8-H0 | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.3 | 0.05 | 11.5 | 1.8 | 1.24 | 14.7 | 315 | 51 |
| 7 | 7714-08C00150-U0BK8-H0 | 8 | 1.5 | 7 | 0.7 | 1.0 | 12.7 | 0.05 | 12.9 | 1.8 | 1.24 | 16.1 | 355 | 57 |
| 8 | 7714-10C00150-U0BK8-H0 | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.3 | 0.05 | 14.5 | 1.8 | 1.24 | 17.7 | 420 | 63 |
| 9 | 7714-12C00150-U0BK8-H0 | 12 | 1.5 | 7 | 0.7 | 1.0 | 14.8 | 0.05 | 15.0 | 1.8 | 1.24 | 18.2 | 480 | 65 |
| 10 | 7714-14C00150-U0BK8-H0 | 14 | 1.5 | 7 | 0.7 | 1.0 | 15.5 | 0.05 | 15.7 | 1.8 | 1.24 | 18.9 | 515 | 68 |
| 11 | 7714-15C00150-U0BK8-H0 | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.4 | 0.05 | 16.6 | 1.8 | 1.24 | 19.8 | 550 | 71 |
| 12 | 7714-16C00150-U0BK8-H0 | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.4 | 0.05 | 16.6 | 1.8 | 1.24 | 19.8 | 565 | 71 |
| 13 | 7714-18C00150-U0BK8-H0 | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.3 | 0.05 | 17.5 | 1.8 | 1.24 | 20.7 | 625 | 75 |
| 14 | 7714-19C00150-U0BK8-H0 | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.3 | 0.05 | 17.5 | 1.8 | 1.24 | 20.7 | 640 | 75 |
| 15 | 7714-20C00150-U0BK8-H0 | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.3 | 0.05 | 18.5 | 1.8 | 1.24 | 21.7 | 675 | 79 |
| 16 | 7714-22C00150-U0BK8-H0 | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.3 | 0.05 | 19.5 | 1.8 | 1.24 | 22.7 | 735 | 83 |
| 17 | 7714-24C00150-U0BK8-H0 | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 780 | 87 |
| 18 | 7714-25C00150-U0BK8-H0 | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 800 | 87 |
| 19 | 7714-26C00150-U0BK8-H0 | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.8 | 1.24 | 23.7 | 820 | 87 |
| 20 | 7714-30C00150-U0BK8-H0 | 30 | 1.5 | 7 | 0.7 | 1.0 | 21.5 | 0.05 | 21.7 | 1.8 | 1.24 | 24.9 | 915 | 91 |
| 21 | 7714-32C00150-U0BK8-H0 | 32 | 1.5 | 7 | 0.7 | 1.0 | 22.4 | 0.05 | 22.6 | 1.8 | 1.24 | 25.8 | 975 | 95 |
| 22 | 7714-35C00150-U0BK8-H0 | 35 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.8 | 1.24 | 26.7 | 1045 | 99 |
| 23 | 7714-36C00150-U0BK8-H0 | 36 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.8 | 1.24 | 26.7 | 1060 | 99 |
| 24 | 7714-40C00150-U0BK8-H0 | 40 | 1.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.8 | 1.24 | 27.7 | 1155 | 102 |
| 25 | 7714-50C00150-U0BK8-H0 | 50 | 1.5 | 7 | 0.7 | 1.0 | 27.3 | 0.05 | 27.5 | 1.9 | 1.32 | 30.9 | 1405 | 121 |
| 26 | 7714-61C00150-U0BK8-H0 | 61 | 1.5 | 7 | 0.7 | 1.0 | 29.3 | 0.05 | 29.5 | 1.9 | 1.32 | 32.9 | 1655 | 129 |
| 27 | 7714-02C00250-U0BK8-H0 | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.8 | 1.24 | 12.6 | 205 | 43 |
| 28 | 7714-03C00250-U0BK8-H0 | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.8 | 1.24 | 13.2 | 245 | 45 |
| 29 | 7714-04C00250-U0BK8-H0 | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.8 | 1.24 | 14.1 | 285 | 49 |
| 30 | 7714-05C00250-U0BK8-H0 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.8 | 1.24 | 15.0 | 325 | 52 |
| 31 | 7714-06C00250-U0BK8-H0 | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.8 | 1.24 | 16.0 | 375 | 56 |
| 32 | 7714-07C00250-U0BK8-H0 | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.8 | 1.24 | 16.0 | 400 | 56 |

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA. OVER METALLIC SCREEN | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Nom | Min | | | |
| 33 | 7714-08C00250-U0BK8-H0 | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.1 | 0.05 | 14.3 | 1.8 | 1.24 | 17.5 | 450 | 62 |
| 34 | 7714-10C00250-U0BK8-H0 | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.0 | 0.05 | 16.2 | 1.8 | 1.24 | 19.4 | 540 | 70 |
| 35 | 7714-12C00250-U0BK8-H0 | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.8 | 1.24 | 19.9 | 615 | 72 |
| 36 | 7714-14C00250-U0BK8-H0 | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.8 | 1.24 | 20.8 | 690 | 75 |
| 37 | 7714-15C00250-U0BK8-H0 | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 720 | 79 |
| 38 | 7714-16C00250-U0BK8-H0 | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.8 | 1.24 | 21.8 | 750 | 79 |
| 39 | 7714-18C00250-U0BK8-H0 | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 825 | 83 |
| 40 | 7714-19C00250-U0BK8-H0 | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.8 | 1.24 | 22.8 | 850 | 83 |
| 41 | 7714-20C00250-U0BK8-H0 | 20 | 2.5 | 7 | 0.7 | 1.0 | 20.5 | 0.05 | 20.7 | 1.8 | 1.24 | 23.9 | 895 | 87 |
| 42 | 7714-22C00250-U0BK8-H0 | 22 | 2.5 | 7 | 0.7 | 1.0 | 21.7 | 0.05 | 21.9 | 1.8 | 1.24 | 25.1 | 970 | 92 |
| 43 | 7714-24C00250-U0BK8-H0 | 24 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1045 | 97 |
| 44 | 7714-25C00250-U0BK8-H0 | 25 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1075 | 97 |
| 45 | 7714-26C00250-U0BK8-H0 | 26 | 2.5 | 7 | 0.7 | 1.0 | 22.8 | 0.05 | 23.0 | 1.8 | 1.24 | 26.2 | 1105 | 97 |
| 46 | 7714-30C00250-U0BK8-H0 | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.2 | 0.05 | 24.4 | 1.8 | 1.24 | 27.6 | 1240 | 102 |
| 47 | 7714-32C00250-U0BK8-H0 | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.2 | 0.05 | 25.4 | 1.8 | 1.24 | 28.6 | 1310 | 106 |
| 48 | 7714-35C00250-U0BK8-H0 | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 0.05 | 26.4 | 1.8 | 1.24 | 29.6 | 1410 | 110 |
| 49 | 7714-36C00250-U0BK8-H0 | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.2 | 0.05 | 26.4 | 1.8 | 1.24 | 29.6 | 1445 | 110 |
| 50 | 7714-40C00250-U0BK8-H0 | 40 | 2.5 | 7 | 0.7 | 1.0 | 27.3 | 0.05 | 27.5 | 1.9 | 1.32 | 30.9 | 1585 | 121 |
| 51 | 7714-50C00250-U0BK8-H0 | 50 | 2.5 | 7 | 0.7 | 1.0 | 30.8 | 0.05 | 31.0 | 2.0 | 1.40 | 34.6 | 1945 | 143 |
| 52 | 7714-61C00250-U0BK8-H0 | 61 | 2.5 | 7 | 0.7 | 1.0 | 33.0 | 0.05 | 33.2 | 2.1 | 1.48 | 37.0 | 2320 | 161 |

# POWER, MULTI CORE SCREENED ARMOURED CABLE

CU/XLPE/PVC/CUT/PVC/GSWA/PVC

SPECIFICATION: IEC 60502-1

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings.. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain copper Class 2 of IEC 60228. |
| Insulation | Cross linked Polyethylene (XLPE) to IEC-60502-1. |
| Color Code* | 2 Core: Red & Black.<br>3 Core: Red, Yellow & Blue.<br>4 Core: Red, Yellow, Blue & Black.<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Flame retardant PVC compatible to conductor operating temperature in Black color. |
| Metallic Screen** | The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. |
| Bedding | Flame retardant PVC compatible to conductor operating temperature in Black color. |
| Armour | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath*** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black |
| Marking on the sheath | Example - CU/XLPE/GSWA/PVC SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

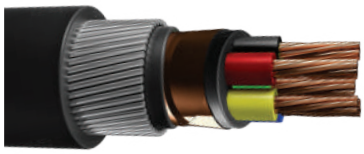
| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request.
**Copper tape with thickness 0.075/0.10/0.12mm are also available on request.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-W0BK8-00 | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.2 | 11.2 | 0.9 | 13.0 | 1.8 | 1.24 | 16.2 | 465 | 57 |
| 2 | 7714-02C00250-W0BK8-00 | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.2 | 12.0 | 0.9 | 13.8 | 1.8 | 1.24 | 17.0 | 575 | 60 |
| 3 | 7714-02C00400-W0BK8-00 | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.05 | 10.4 | 1.2 | 13.1 | 1.25 | 15.5 | 1.8 | 1.24 | 18.7 | 670 | 67 |
| 4 | 7714-02C00600-W0BK8-00 | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 765 | 72 |
| 5 | 7714-02C01000-W0BK8-00 | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.2 | 16.1 | 1.25 | 18.6 | 1.8 | 1.24 | 21.8 | 925 | 79 |
| 6 | 7714-03C00150-W0BK8-00 | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.2 | 11.7 | 0.9 | 13.5 | 1.8 | 1.24 | 16.7 | 500 | 59 |
| 7 | 7714-03C00250-W0BK8-00 | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.2 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 650 | 65 |
| 8 | 7714-03C00400-W0BK8-00 | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.05 | 11.1 | 1.2 | 13.7 | 1.25 | 16.2 | 1.8 | 1.24 | 19.4 | 750 | 70 |
| 9 | 7714-03C00600-W0BK8-00 | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.05 | 12.4 | 1.2 | 15.0 | 1.25 | 17.5 | 1.8 | 1.24 | 20.7 | 870 | 75 |
| 10 | 7714-03C01000-W0BK8-00 | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.2 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 1070 | 83 |
| 11 | 7714-04C00150-W0BK8-00 | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.2 | 12.4 | 1.25 | 15.0 | 1.8 | 1.24 | 18.1 | 635 | 64 |
| 12 | 7714-04C00250-W0BK8-00 | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.2 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 720 | 69 |
| 13 | 7714-04C00400-W0BK8-00 | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.05 | 12.1 | 1.2 | 14.7 | 1.25 | 17.2 | 1.8 | 1.24 | 20.4 | 830 | 74 |
| 14 | 7714-04C00600-W0BK8-00 | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.2 | 16.1 | 1.25 | 18.6 | 1.8 | 1.24 | 21.8 | 975 | 79 |
| 15 | 7714-04C01000-W0BK8-00 | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1360 | 91 |
| 16 | 7714-05C00150-W0BK8-00-02 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.2 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 695 | 68 |
| 17 | 7714-05C00250-W0BK8-00-02 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.2 | 14.4 | 1.25 | 16.9 | 1.8 | 1.24 | 20.1 | 790 | 72 |
| 18 | 7714-05C00400-W0BK8-00-02 | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.05 | 13.2 | 1.2 | 15.8 | 1.25 | 18.3 | 1.8 | 1.24 | 21.5 | 930 | 78 |
| 19 | 7714-05C00600-W0BK8-00-02 | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.2 | 17.4 | 1.25 | 19.9 | 1.8 | 1.24 | 23.1 | 1095 | 84 |
| 20 | 7714-05C01000-W0BK8-00-02 | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.05 | 17.3 | 1.2 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.3 | 1545 | 97 |

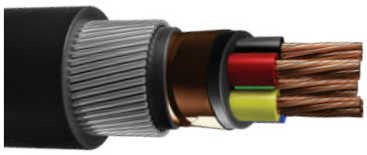
**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
NON-COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-W0BK8-0A | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.2 | 11.2 | 0.9 | 13.0 | 1.8 | 1.24 | 16.2 | 465 | 57 |
| 2 | 7714-02C00250-W0BK8-0A | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.2 | 12.0 | 0.9 | 13.8 | 1.8 | 1.24 | 17.0 | 575 | 60 |
| 3 | 7714-02C00400-W0BK8-0A | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.05 | 10.4 | 1.2 | 13.1 | 1.25 | 15.5 | 1.8 | 1.24 | 18.7 | 670 | 67 |
| 4 | 7714-02C00600-W0BK8-0A | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 765 | 72 |
| 5 | 7714-02C01000-W0BK8-0A | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.2 | 16.1 | 1.25 | 18.6 | 1.8 | 1.24 | 21.8 | 925 | 79 |
| 6 | 7714-03C00150-W0BK8-0A | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.2 | 11.7 | 0.9 | 13.5 | 1.8 | 1.24 | 16.7 | 500 | 59 |
| 7 | 7714-03C00250-W0BK8-0A | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.2 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 650 | 65 |
| 8 | 7714-03C00400-W0BK8-0A | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.05 | 11.1 | 1.2 | 13.7 | 1.25 | 16.2 | 1.8 | 1.24 | 19.4 | 750 | 70 |
| 9 | 7714-03C00600-W0BK8-0A | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.05 | 12.4 | 1.2 | 15.0 | 1.25 | 17.5 | 1.8 | 1.24 | 20.7 | 870 | 75 |
| 10 | 7714-03C01000-W0BK8-0A | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.2 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 1070 | 83 |
| 11 | 7714-04C00150-W0BK8-0A | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.2 | 12.4 | 1.25 | 15.0 | 1.8 | 1.24 | 18.1 | 635 | 64 |
| 12 | 7714-04C00250-W0BK8-0A | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.2 | 13.5 | 1.25 | 16.0 | 18. | 1.24 | 19.2 | 720 | 69 |
| 13 | 7714-04C00400-W0BK8-0A | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.05 | 12.1 | 1.2 | 14.7 | 1.25 | 17.2 | 1.8 | 1.24 | 20.4 | 830 | 74 |
| 14 | 7714-04C00600-W0BK8-0A | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.2 | 16.1 | 1.25 | 18.6 | 1.8 | 1.24 | 21.8 | 975 | 79 |
| 15 | 7714-04C01000-W0BK8-0A | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1360 | 91 |
| 16 | 7714-05C00150-W0BK8-0A-02 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.2 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 695 | 68 |
| 17 | 7714-05C00250-W0BK8-0A-02 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.2 | 14.4 | 1.25 | 16.9 | 1.8 | 1.24 | 20.1 | 790 | 72 |
| 18 | 7714-05C00400-W0BK8-0A-02 | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.05 | 13.2 | 1.2 | 15.8 | 1.25 | 18.3 | 1.8 | 1.24 | 21.5 | 930 | 78 |
| 19 | 7714-05C00600-W0BK8-0A-02 | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.2 | 17.4 | 1.25 | 19.9 | 1.8 | 1.24 | 23.1 | 1095 | 84 |
| 20 | 7714-05C01000-W0BK8-0A-02 | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.05 | 17.3 | 1.2 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.3 | 1545 | 97 |

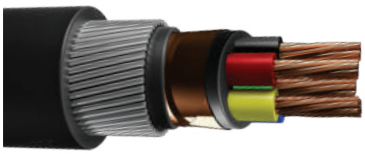
**TABLE: IEC 60332-1-2**

NON-COMPACTED CIRCULAR CONDUCTOR:



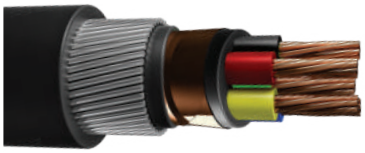
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-W0BK8-NI | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.2 | 11.2 | 0.9 | 13.0 | 1.8 | 1.24 | 16.2 | 465 | 57 |
| 2 | 7714-02C00250-W0BK8-NI | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.2 | 12.0 | 0.9 | 13.8 | 1.8 | 1.24 | 17.0 | 575 | 60 |
| 3 | 7714-02C00400-W0BK8-NI | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.05 | 10.4 | 1.2 | 13.1 | 1.25 | 15.5 | 1.8 | 1.24 | 18.7 | 670 | 67 |
| 4 | 7714-02C00600-W0BK8-NI | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 765 | 72 |
| 5 | 7714-02C01000-W0BK8-NI | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.2 | 16.1 | 1.25 | 18.6 | 1.8 | 1.24 | 21.8 | 925 | 79 |
| 6 | 7714-03C00150-W0BK8-NI | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.2 | 11.7 | 0.9 | 13.5 | 1.8 | 1.24 | 16.7 | 500 | 59 |
| 7 | 7714-03C00250-W0BK8-NI | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.2 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 650 | 65 |
| 8 | 7714-03C00400-W0BK8-NI | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.05 | 11.1 | 1.2 | 13.7 | 1.25 | 16.2 | 1.8 | 1.24 | 19.4 | 750 | 70 |
| 9 | 7714-03C00600-W0BK8-NI | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.05 | 12.4 | 1.2 | 15.0 | 1.25 | 17.5 | 1.8 | 1.24 | 20.7 | 870 | 75 |
| 10 | 7714-03C01000-W0BK8-NI | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.2 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 1070 | 83 |
| 11 | 7714-04C00150-W0BK8-NI | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.2 | 12.4 | 1.25 | 15.0 | 1.8 | 1.24 | 18.1 | 635 | 64 |
| 12 | 7714-04C00250-W0BK8-NI | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.2 | 13.5 | 1.25 | 16.0 | 18. | 1.24 | 19.2 | 720 | 69 |
| 13 | 7714-04C00400-W0BK8-NI | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.05 | 12.1 | 1.2 | 14.7 | 1.25 | 17.2 | 1.8 | 1.24 | 20.4 | 830 | 74 |
| 14 | 7714-04C00600-W0BK8-NI | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.2 | 16.1 | 1.25 | 18.6 | 1.8 | 1.24 | 21.8 | 975 | 79 |
| 15 | 7714-04C01000-W0BK8-NI | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1360 | 91 |
| 16 | 7714-05C00150-W0BK8-NI-02 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.2 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 695 | 68 |
| 17 | 7714-05C00250-W0BK8-NI-02 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.2 | 14.4 | 1.25 | 16.9 | 1.8 | 1.24 | 20.1 | 790 | 72 |
| 18 | 7714-05C00400-W0BK8-NI-02 | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.05 | 13.2 | 1.2 | 15.8 | 1.25 | 18.3 | 1.8 | 1.24 | 21.5 | 930 | 78 |
| 19 | 7714-05C00600-W0BK8-NI-02 | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.2 | 17.4 | 1.25 | 19.9 | 1.8 | 1.24 | 23.1 | 1095 | 84 |
| 20 | 7714-05C01000-W0BK8-NI-02 | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.05 | 17.3 | 1.2 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.3 | 1545 | 97 |

**TABLE: IEC 60332-3-24 (CAT C)**
COMPACTED CIRCULAR CONDUCTOR:



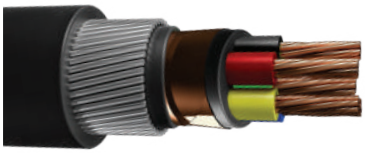
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 77D4-02C01600-W0BK8-00 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.2 | 17.4 | 1.6 | 20.6 | 1.8 | 1.24 | 23.8 | 1215 | 87 |
| 2 | 77D4-02C02500-W0BK8-00 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.05 | 18.0 | 1.2 | 20.6 | 1.6 | 23.8 | 1.8 | 1.24 | 27.0 | 1535 | 100 |
| 3 | 77D4-02C03500-W0BK8-00 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.05 | 20.2 | 1.2 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1835 | 108 |
| 4 | 77D4-02C05000-W0BK8-00 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.05 | 23.3 | 1.2 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.5 | 2250 | 128 |
| 5 | 77D4-02C07000-W0BK8-00 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.05 | 26.7 | 1.2 | 29.3 | 2.0 | 33.3 | 2.1 | 1.48 | 37.1 | 3055 | 162 |
| 6 | 77D4-02C09500-W0BK8-00 | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 0.05 | 30.4 | 1.2 | 33.0 | 2.0 | 37.0 | 2.2 | 1.56 | 41.0 | 3760 | 188 |
| 7 | 77D4-02C12000-W0BK8-00 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.05 | 33.7 | 1.2 | 36.3 | 2.0 | 40.3 | 2.3 | 1.64 | 44.3 | 4440 | 212 |
| 8 | 77D4-02C15000-W0BK8-00 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.05 | 37.5 | 1.3 | 40.3 | 2.5 | 45.3 | 2.5 | 1.80 | 49.7 | 5645 | 259 |
| 9 | 77D4-02C18500-W0BK8-00 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.05 | 41.9 | 1.4 | 44.9 | 2.5 | 49.9 | 2.6 | 1.88 | 54.5 | 6720 | 297 |
| 10 | 77D4-02C24000-W0BK8-00 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.05 | 46.8 | 1.5 | 50.0 | 2.5 | 55.0 | 2.8 | 2.04 | 59.8 | 8165 | 351 |
| 11 | 77D4-02C30000-W0BK8-00 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.05 | 51.9 | 1.6 | 55.3 | 2.5 | 60.3 | 2.9 | 2.12 | 65.3 | 9830 | 398 |
| 12 | 77D4-02C40000-W0BK8-00 | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.05 | 59.0 | 1.7 | 62.6 | 2.5 | 67.6 | 3.2 | 2.36 | 73.2 | 12020 | 493 |
| 13 | 77D4-03C01600-W0BK8-00 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1405 | 91 |
| 14 | 77D4-03C02500-W0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.05 | 19.2 | 1.2 | 21.8 | 1.6 | 25.0 | 1.8 | 1.24 | 28.2 | 1830 | 104 |
| 15 | 77D4-03C03500-W0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.05 | 21.6 | 1.2 | 24.2 | 1.6 | 27.4 | 1.9 | 1.32 | 30.8 | 2260 | 121 |
| 16 | 77D4-04C01600-W0BK8-00 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.05 | 17.4 | 1.2 | 20.0 | 1.6 | 23.2 | 1.8 | 1.24 | 26.4 | 1640 | 97 |
| 17 | 77D4-05C01600-W0BK8-00-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.05 | 19.1 | 1.2 | 21.7 | 1.6 | 24.9 | 1.8 | 1.24 | 28.1 | 1880 | 104 |
| 18 | 77D4-05C02500-W0BK8-00-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.05 | 23.4 | 1.2 | 26.0 | 1.6 | 29.2 | 1.9 | 1.32 | 32.6 | 2545 | 128 |
| 19 | 77D4-05C03500-W0BK8-00-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.05 | 26.3 | 1.2 | 28.9 | 2.0 | 32.9 | 2.1 | 1.48 | 36.7 | 3420 | 160 |
| 20 | 77D4-05C05000-W0BK8-00-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.05 | 30.9 | 1.2 | 33.5 | 2.0 | 37.5 | 2.2 | 1.56 | 41.5 | 4315 | 190 |
| 21 | 77D4-05C07000-W0BK8-00-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.05 | 35.6 | 1.2 | 38.2 | 2.0 | 42.2 | 2.4 | 1.72 | 46.4 | 5595 | 232 |
| 22 | 77D4-05C09500-W0BK8-00-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.05 | 40.4 | 1.3 | 43.2 | 2.5 | 48.2 | 2.5 | 1.80 | 52.6 | 7510 | 275 |
| 23 | 77D4-05C12000-W0BK8-00-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 1.4 | 47.8 | 2.5 | 52.8 | 2.7 | 1.96 | 57.6 | 7965 | 326 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 77D4-02C01600-W0BK8-0A | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.2 | 17.4 | 1.6 | 20.6 | 1.8 | 1.24 | 23.8 | 1215 | 87 |
| 2 | 77D4-02C02500-W0BK8-0A | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.05 | 18.0 | 1.2 | 20.6 | 1.6 | 23.8 | 1.8 | 1.24 | 27.0 | 1535 | 100 |
| 3 | 77D4-02C03500-W0BK8-0A | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.05 | 20.2 | 1.2 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1835 | 108 |
| 4 | 77D4-02C05000-W0BK8-0A | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.05 | 23.3 | 1.2 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.5 | 2250 | 128 |
| 5 | 77D4-02C07000-W0BK8-0A | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.05 | 26.7 | 1.2 | 29.3 | 2.0 | 33.3 | 2.1 | 1.48 | 37.1 | 3055 | 162 |
| 6 | 77D4-02C09500-W0BK8-0A | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 0.05 | 30.4 | 1.2 | 33.0 | 2.0 | 37.0 | 2.2 | 1.56 | 41.0 | 3760 | 188 |
| 7 | 77D4-02C12000-W0BK8-0A | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.05 | 33.7 | 1.2 | 36.3 | 2.0 | 40.3 | 2.3 | 1.64 | 44.3 | 4440 | 212 |
| 8 | 77D4-02C15000-W0BK8-0A | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.05 | 37.5 | 1.3 | 40.3 | 2.5 | 45.3 | 2.5 | 1.80 | 49.7 | 5645 | 259 |
| 9 | 77D4-02C18500-W0BK8-0A | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.05 | 41.9 | 1.4 | 44.9 | 2.5 | 49.9 | 2.6 | 1.88 | 54.5 | 6720 | 297 |
| 10 | 77D4-02C24000-W0BK8-0A | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.05 | 46.8 | 1.5 | 50.0 | 2.5 | 55.0 | 2.8 | 2.04 | 59.8 | 8165 | 351 |
| 11 | 77D4-02C30000-W0BK8-0A | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.05 | 51.9 | 1.6 | 55.3 | 2.5 | 60.3 | 2.9 | 2.12 | 65.3 | 9830 | 398 |
| 12 | 77D4-02C40000-W0BK8-0A | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.05 | 59.0 | 1.7 | 62.6 | 2.5 | 67.6 | 3.2 | 2.36 | 73.2 | 12020 | 493 |
| 13 | 77D4-03C01600-W0BK8-0A | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1405 | 91 |
| 14 | 77D4-03C02500-W0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.05 | 19.2 | 1.2 | 21.8 | 1.6 | 25.0 | 1.8 | 1.24 | 28.2 | 1830 | 104 |
| 15 | 77D4-03C03500-W0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.05 | 21.6 | 1.2 | 24.2 | 1.6 | 27.4 | 1.9 | 1.32 | 30.8 | 2260 | 121 |
| 16 | 77D4-04C01600-W0BK8-0A | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.05 | 17.4 | 1.2 | 20.0 | 1.6 | 23.2 | 1.8 | 1.24 | 26.4 | 1640 | 97 |
| 17 | 77D4-05C01600-W0BK8-0A-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.05 | 19.1 | 1.2 | 21.7 | 1.6 | 24.9 | 1.8 | 1.24 | 28.1 | 1880 | 104 |
| 18 | 77D4-05C02500-W0BK8-0A-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.05 | 23.4 | 1.2 | 26.0 | 1.6 | 29.2 | 1.9 | 1.32 | 32.6 | 2545 | 128 |
| 19 | 77D4-05C03500-W0BK8-0A-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.05 | 26.3 | 1.2 | 28.9 | 2.0 | 32.9 | 2.1 | 1.48 | 36.7 | 3420 | 160 |
| 20 | 77D4-05C05000-W0BK8-0A-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.05 | 30.9 | 1.2 | 33.5 | 2.0 | 37.5 | 2.2 | 1.56 | 41.5 | 4315 | 190 |
| 21 | 77D4-05C07000-W0BK8-0A-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.05 | 35.6 | 1.2 | 38.2 | 2.0 | 42.2 | 2.4 | 1.72 | 46.4 | 5595 | 232 |
| 22 | 77D4-05C09500-W0BK8-0A-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.05 | 40.4 | 1.3 | 43.2 | 2.5 | 48.2 | 2.5 | 1.80 | 52.6 | 7510 | 275 |
| 23 | 77D4-05C12000-W0BK8-0A-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 1.4 | 47.8 | 2.5 | 52.8 | 2.7 | 1.96 | 57.6 | 7965 | 326 |

**TABLE: IEC 60332-1-2**
COMPACTED CIRCULAR CONDUCTOR:

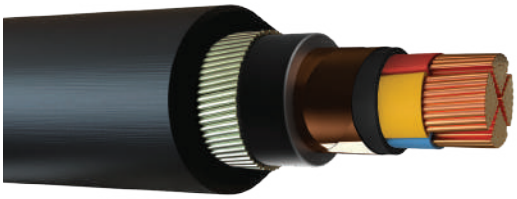


| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 77D4-02C01600-W0BK8-NI | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.2 | 17.4 | 1.6 | 20.6 | 1.8 | 1.24 | 23.8 | 1215 | 87 |
| 2 | 77D4-02C02500-W0BK8-NI | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.05 | 18.0 | 1.2 | 20.6 | 1.6 | 23.8 | 1.8 | 1.24 | 27.0 | 1535 | 100 |
| 3 | 77D4-02C03500-W0BK8-NI | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.05 | 20.2 | 1.2 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1835 | 108 |
| 4 | 77D4-02C05000-W0BK8-NI | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.05 | 23.3 | 1.2 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.5 | 2250 | 128 |
| 5 | 77D4-02C07000-W0BK8-NI | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.05 | 26.7 | 1.2 | 29.3 | 2.0 | 33.3 | 2.1 | 1.48 | 37.1 | 3055 | 162 |
| 6 | 77D4-02C09500-W0BK8-NI | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 0.05 | 30.4 | 1.2 | 33.0 | 2.0 | 37.0 | 2.2 | 1.56 | 41.0 | 3760 | 188 |
| 7 | 77D4-02C12000-W0BK8-NI | 2C | | 19 | 1.2 | 1.2 | 33.5 | 0.05 | 33.7 | 1.2 | 36.3 | 2.0 | 40.3 | 2.3 | 1.64 | 44.3 | 4440 | 212 |
| 8 | 77D4-02C15000-W0BK8-NI | 2C | | 19 | 1.4 | 1.2 | 37.3 | 0.05 | 37.5 | 1.3 | 40.3 | 2.5 | 45.3 | 2.5 | 1.80 | 49.7 | 5645 | 259 |
| 9 | 77D4-02C18500-W0BK8-NI | 2C | | 37 | 1.6 | 1.4 | 41.7 | 0.05 | 41.9 | 1.4 | 44.9 | 2.5 | 49.9 | 2.6 | 1.88 | 54.5 | 6720 | 297 |
| 10 | 77D4-02C24000-W0BK8-NI | 2C | | 37 | 1.7 | 1.4 | 46.6 | 0.05 | 46.8 | 1.5 | 50.0 | 2.5 | 55.0 | 2.8 | 2.04 | 59.8 | 8165 | 351 |
| 11 | 77D4-02C30000-W0BK8-NI | 2C | | 37 | 1.8 | 1.6 | 51.7 | 0.05 | 51.9 | 1.6 | 55.3 | 2.5 | 60.3 | 2.9 | 2.12 | 65.3 | 9830 | 398 |
| 12 | 77D4-02C40000-W0BK8-NI | 2C | | 61 | 2.0 | 1.6 | 58.8 | 0.05 | 59.0 | 1.7 | 62.6 | 2.5 | 67.6 | 3.2 | 2.36 | 73.2 | 12020 | 493 |
| 13 | 77D4-03C01600-W0BK8-NI | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1405 | 91 |
| 14 | 77D4-03C02500-W0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.05 | 19.2 | 1.2 | 21.8 | 1.6 | 25.0 | 1.8 | 1.24 | 28.2 | 1830 | 104 |
| 15 | 77D4-03C03500-W0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.05 | 21.6 | 1.2 | 24.2 | 1.6 | 27.4 | 1.9 | 1.32 | 30.8 | 2260 | 121 |
| 16 | 77D4-04C01600-W0BK8-NI | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.05 | 17.4 | 1.2 | 20.0 | 1.6 | 23.2 | 1.8 | 1.24 | 26.4 | 1640 | 97 |
| 17 | 77D4-05C01600-W0BK8-NI-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.05 | 19.1 | 1.2 | 21.7 | 1.6 | 24.9 | 1.8 | 1.24 | 28.1 | 1880 | 104 |
| 18 | 77D4-05C02500-W0BK8-NI-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.05 | 23.4 | 1.2 | 26.0 | 1.6 | 29.2 | 1.9 | 1.32 | 32.6 | 2545 | 128 |
| 19 | 77D4-05C03500-W0BK8-NI-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.05 | 26.3 | 1.2 | 28.9 | 2.0 | 32.9 | 2.1 | 1.48 | 36.7 | 3420 | 160 |
| 20 | 77D4-05C05000-W0BK8-NI-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.05 | 30.9 | 1.2 | 33.5 | 2.0 | 37.5 | 2.2 | 1.56 | 41.5 | 4315 | 190 |
| 21 | 77D4-05C07000-W0BK8-NI-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.05 | 35.6 | 1.2 | 38.2 | 2.0 | 42.2 | 2.4 | 1.72 | 46.4 | 5595 | 232 |
| 22 | 77D4-05C09500-W0BK8-NI-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.05 | 40.4 | 1.3 | 43.2 | 2.5 | 48.2 | 2.5 | 1.80 | 52.6 | 7510 | 275 |
| 23 | 77D4-05C12000-W0BK8-NI-02 | 5C | | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 1.4 | 47.8 | 2.5 | 52.8 | 2.7 | 1.96 | 57.6 | 7965 | 326 |

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:

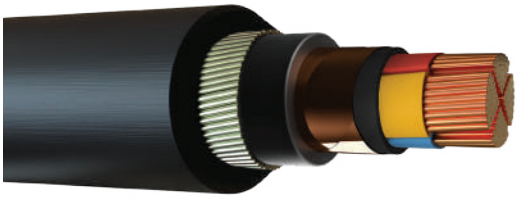
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 77F4-03C02500-W0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1705 | 95 |
| 2 | 77F4-03C03500-W0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.6 | 24.4 | 1.9 | 1.32 | 27.8 | 2080 | 108 |
| 3 | 77F4-03C05000-W0BK8-00 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.05 | 21.4 | 1.2 | 24.0 | 1.6 | 27.2 | 2.0 | 1.40 | 30.8 | 2605 | 127 |
| 4 | 77F4-03C07000-W0BK8-00 | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.05 | 24.9 | 1.2 | 27.5 | 2.0 | 31.5 | 2.1 | 1.48 | 35.3 | 3625 | 153 |
| 5 | 77F4-03C09500-W0BK8-00 | 3C | 95 | 19 | 1.1 | 1.2 | 27.5 | 0.05 | 27.7 | 1.2 | 30.4 | 2.0 | 34.4 | 2.3 | 1.64 | 38.4 | 4475 | 183 |
| 6 | 77F4-03C12000-W0BK8-00 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.05 | 30.7 | 1.3 | 33.5 | 2.5 | 38.5 | 2.4 | 1.72 | 42.7 | 5725 | 213 |
| 7 | 77F4-03C15000-W0BK8-00 | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.05 | 34.6 | 1.3 | 37.4 | 2.5 | 42.4 | 2.6 | 1.88 | 47.0 | 6865 | 254 |
| 8 | 77F4-03C18500-W0BK8-00 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.05 | 38.2 | 1.4 | 41.2 | 2.5 | 46.2 | 2.7 | 1.96 | 51.0 | 8110 | 287 |
| 9 | 77F4-03C24000-W0BK8-00 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.05 | 42.9 | 1.5 | 46.1 | 2.5 | 51.1 | 2.9 | 2.12 | 56.1 | 10160 | 339 |
| 10 | 77F4-03C30000-W0BK8-00 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.05 | 47.1 | 1.6 | 50.5 | 2.5 | 55.5 | 3.1 | 2.28 | 60.9 | 12355 | 394 |
| 11 | 77F4-03C40000-W0BK8-00 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.05 | 53.5 | 1.8 | 57.3 | 3.15 | 63.6 | 3.4 | 2.52 | 69.4 | 15890 | 493 |
| 12 | 77F4-04C02500-W0BK8-00 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.05 | 19.6 | 1.2 | 22.2 | 1.6 | 25.4 | 1.9 | 1.32 | 28.8 | 2100 | 112 |
| 13 | 77F4-04C03500-W0BK8-00 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.05 | 22.0 | 1.2 | 24.6 | 1.6 | 27.8 | 1.9 | 1.32 | 31.2 | 2580 | 122 |
| 14 | 77F4-04C05000-W0BK8-00 | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.05 | 25.5 | 1.2 | 28.1 | 2.0 | 32.1 | 2.1 | 1.48 | 35.9 | 3510 | 156 |
| 15 | 77F4-04C07000-W0BK8-00 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.05 | 29.7 | 1.2 | 32.3 | 2.0 | 36.3 | 2.2 | 1.56 | 40.3 | 4570 | 184 |
| 16 | 77F4-04C09500-W0BK8-00 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.05 | 33.2 | 1.3 | 36.0 | 2.5 | 41.0 | 2.4 | 1.72 | 45.2 | 6085 | 226 |
| 17 | 77F4-04C12000-W0BK8-00 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.05 | 37.2 | 1.3 | 40.0 | 2.5 | 45.0 | 2.6 | 1.88 | 49.6 | 7370 | 269 |
| 18 | 77F4-04C15000-W0BK8-00 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.05 | 41.5 | 1.4 | 44.5 | 2.5 | 49.5 | 2.7 | 1.96 | 54.3 | 8805 | 306 |
| 19 | 77F4-04C18500-W0BK8-00 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.05 | 45.9 | 1.5 | 49.1 | 2.5 | 54.1 | 2.9 | 2.12 | 59.1 | 10465 | 358 |
| 20 | 77F4-04C24000-W0BK8-00 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.05 | 51.6 | 1.6 | 55.0 | 2.5 | 60.0 | 3.1 | 2.28 | 65.4 | 13160 | 425 |
| 21 | 77F4-04C30000-W0BK8-00 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.05 | 56.8 | 1.7 | 60.4 | 3.15 | 66.7 | 3.3 | 2.44 | 72.3 | 16760 | 501 |
| 22 | 77F4-04C40000-W0BK8-00 | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.05 | 65.1 | 1.9 | 69.1 | 3.15 | 75.4 | 3.7 | 2.76 | 81.8 | 20795 | 635 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 77F4-03C02500-W0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1705 | 95 |
| 2 | 77F4-03C03500-W0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.6 | 24.4 | 1.9 | 1.32 | 27.8 | 2080 | 108 |
| 3 | 77F4-03C05000-W0BK8-0A | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.05 | 21.4 | 1.2 | 24.0 | 1.6 | 27.2 | 2.0 | 1.40 | 30.8 | 2605 | 127 |
| 4 | 77F4-03C07000-W0BK8-0A | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.05 | 24.9 | 1.2 | 27.5 | 2.0 | 31.5 | 2.1 | 1.48 | 35.3 | 3625 | 153 |
| 5 | 77F4-03C09500-W0BK8-0A | 3C | 95 | 19 | 1.1 | 1.2 | 27.5 | 0.05 | 27.7 | 1.2 | 30.4 | 2.0 | 34.4 | 2.3 | 1.64 | 38.4 | 4475 | 183 |
| 6 | 77F4-03C12000-W0BK8-0A | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.05 | 30.7 | 1.3 | 33.5 | 2.5 | 38.5 | 2.4 | 1.72 | 42.7 | 5725 | 213 |
| 7 | 77F4-03C15000-W0BK8-0A | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.05 | 34.6 | 1.3 | 37.4 | 2.5 | 42.4 | 2.6 | 1.88 | 47.0 | 6865 | 254 |
| 8 | 77F4-03C18500-W0BK8-0A | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.05 | 38.2 | 1.4 | 41.2 | 2.5 | 46.2 | 2.7 | 1.96 | 51.0 | 8110 | 287 |
| 9 | 77F4-03C24000-W0BK8-0A | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.05 | 42.9 | 1.5 | 46.1 | 2.5 | 51.1 | 2.9 | 2.12 | 56.1 | 10160 | 339 |
| 10 | 77F4-03C30000-W0BK8-0A | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.05 | 47.1 | 1.6 | 50.5 | 2.5 | 55.5 | 3.1 | 2.28 | 60.9 | 12355 | 394 |
| 11 | 77F4-03C40000-W0BK8-0A | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.05 | 53.5 | 1.8 | 57.3 | 3.15 | 63.6 | 3.4 | 2.52 | 69.4 | 15890 | 493 |
| 12 | 77F4-04C02500-W0BK8-0A | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.05 | 19.6 | 1.2 | 22.2 | 1.6 | 25.4 | 1.9 | 1.32 | 28.8 | 2100 | 112 |
| 13 | 77F4-04C03500-W0BK8-0A | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.05 | 22.0 | 1.2 | 24.6 | 1.6 | 27.8 | 1.9 | 1.32 | 31.2 | 2580 | 122 |
| 14 | 77F4-04C05000-W0BK8-0A | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.05 | 25.5 | 1.2 | 28.1 | 2.0 | 32.1 | 2.1 | 1.48 | 35.9 | 3510 | 156 |
| 15 | 77F4-04C07000-W0BK8-0A | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.05 | 29.7 | 1.2 | 32.3 | 2.0 | 36.3 | 2.2 | 1.56 | 40.3 | 4570 | 184 |
| 16 | 77F4-04C09500-W0BK8-0A | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.05 | 33.2 | 1.3 | 36.0 | 2.5 | 41.0 | 2.4 | 1.72 | 45.2 | 6085 | 226 |
| 17 | 77F4-04C12000-W0BK8-0A | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.05 | 37.2 | 1.3 | 40.0 | 2.5 | 45.0 | 2.6 | 1.88 | 49.6 | 7370 | 269 |
| 18 | 77F4-04C15000-W0BK8-0A | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.05 | 41.5 | 1.4 | 44.5 | 2.5 | 49.5 | 2.7 | 1.96 | 54.3 | 8805 | 306 |
| 19 | 77F4-04C18500-W0BK8-0A | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.05 | 45.9 | 1.5 | 49.1 | 2.5 | 54.1 | 2.9 | 2.12 | 59.1 | 10465 | 358 |
| 20 | 77F4-04C24000-W0BK8-0A | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.05 | 51.6 | 1.6 | 55.0 | 2.5 | 60.0 | 3.1 | 2.28 | 65.4 | 13160 | 425 |
| 21 | 77F4-04C30000-W0BK8-0A | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.05 | 56.8 | 1.7 | 60.4 | 3.15 | 66.7 | 3.3 | 2.44 | 72.3 | 16760 | 501 |
| 22 | 77F4-04C40000-W0BK8-0A | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.05 | 65.1 | 1.9 | 69.1 | 3.15 | 75.4 | 3.7 | 2.76 | 81.8 | 20795 | 635 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 77F4-03C02500-W0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1705 | 95 |
| 2 | 77F4-03C03500-W0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.6 | 24.4 | 1.9 | 1.32 | 27.8 | 2080 | 108 |
| 3 | 77F4-03C05000-W0BK8-NI | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.05 | 21.4 | 1.2 | 24.0 | 1.6 | 27.2 | 2.0 | 1.40 | 30.8 | 2605 | 127 |
| 4 | 77F4-03C07000-W0BK8-NI | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.05 | 24.9 | 1.2 | 27.5 | 2.0 | 31.5 | 2.1 | 1.48 | 35.3 | 3625 | 153 |
| 5 | 77F4-03C09500-W0BK8-NI | 3C | 95 | 19 | 1.1 | 1.2 | 27.5 | 0.05 | 27.7 | 1.2 | 30.4 | 2.0 | 34.4 | 2.3 | 1.64 | 38.4 | 4475 | 183 |
| 6 | 77F4-03C12000-W0BK8-NI | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.05 | 30.7 | 1.3 | 33.5 | 2.5 | 38.5 | 2.4 | 1.72 | 42.7 | 5725 | 213 |
| 7 | 77F4-03C15000-W0BK8-NI | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.05 | 34.6 | 1.3 | 37.4 | 2.5 | 42.4 | 2.6 | 1.88 | 47.0 | 6865 | 254 |
| 8 | 77F4-03C18500-W0BK8-NI | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.05 | 38.2 | 1.4 | 41.2 | 2.5 | 46.2 | 2.7 | 1.96 | 51.0 | 8110 | 287 |
| 9 | 77F4-03C24000-W0BK8-NI | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.05 | 42.9 | 1.5 | 46.1 | 2.5 | 51.1 | 2.9 | 2.12 | 56.1 | 10160 | 339 |
| 10 | 77F4-03C30000-W0BK8-NI | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.05 | 47.1 | 1.6 | 50.5 | 2.5 | 55.5 | 3.1 | 2.28 | 60.9 | 12355 | 394 |
| 11 | 77F4-03C40000-W0BK8-NI | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.05 | 53.5 | 1.8 | 57.3 | 3.15 | 63.6 | 3.4 | 2.52 | 69.4 | 15890 | 493 |
| 12 | 77F4-04C02500-W0BK8-NI | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.05 | 19.6 | 1.2 | 22.2 | 1.6 | 25.4 | 1.9 | 1.32 | 28.8 | 2100 | 112 |
| 13 | 77F4-04C03500-W0BK8-NI | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.05 | 22.0 | 1.2 | 24.6 | 1.6 | 27.8 | 1.9 | 1.32 | 31.2 | 2580 | 122 |
| 14 | 77F4-04C05000-W0BK8-NI | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.05 | 25.5 | 1.2 | 28.1 | 2.0 | 32.1 | 2.1 | 1.48 | 35.9 | 3510 | 156 |
| 15 | 77F4-04C07000-W0BK8-NI | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.05 | 29.7 | 1.2 | 32.3 | 2.0 | 36.3 | 2.2 | 1.56 | 40.3 | 4570 | 184 |
| 16 | 77F4-04C09500-W0BK8-NI | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.05 | 33.2 | 1.3 | 36.0 | 2.5 | 41.0 | 2.4 | 1.72 | 45.2 | 6085 | 226 |
| 17 | 77F4-04C12000-W0BK8-NI | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.05 | 37.2 | 1.3 | 40.0 | 2.5 | 45.0 | 2.6 | 1.88 | 49.6 | 7370 | 269 |
| 18 | 77F4-04C15000-W0BK8-NI | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.05 | 41.5 | 1.4 | 44.5 | 2.5 | 49.5 | 2.7 | 1.96 | 54.3 | 8805 | 306 |
| 19 | 77F4-04C18500-W0BK8-NI | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.05 | 45.9 | 1.5 | 49.1 | 2.5 | 54.1 | 2.9 | 2.12 | 59.1 | 10465 | 358 |
| 20 | 77F4-04C24000-W0BK8-NI | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.05 | 51.6 | 1.6 | 55.0 | 2.5 | 60.0 | 3.1 | 2.28 | 65.4 | 13160 | 425 |
| 21 | 77F4-04C30000-W0BK8-NI | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.05 | 56.8 | 1.7 | 60.4 | 3.15 | 66.7 | 3.3 | 2.44 | 72.3 | 16760 | 501 |
| 22 | 77F4-04C40000-W0BK8-NI | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.05 | 65.1 | 1.9 | 69.1 | 3.15 | 75.4 | 3.7 | 2.76 | 81.8 | 20795 | 635 |

# CONTROL, MULTI CORE SCREENED ARMOURED CABLE

CU/XLPE/PVC/CUT/PVC/GSWA/PVC

SPECIFICATION: IEC 60502-1

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain copper Class 2 of IEC 60228. |
| Insulation | Cross linked Polyethylene (XLPE) to IEC-60502-1. |
| Color Code* | 2 Core: Red & Black.<br>3 Core: Red, Yellow & Blue.<br>4 Core: Red, Yellow, Blue & Black.<br>5C & Above: Black cores with number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Flame retardant PVC compatible to conductor operating temperature in Black color. |
| Metallic Screen** | The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. |
| Bedding | Flame retardant PVC compatible to conductor operating temperature in Black color. |
| Armour | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath*** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black |
| Marking on the sheath | Example - CU/XLPE/GSWA/PVC SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |

*Other Insulation color available on request. Cable more than five core and above, last core with protective earth (PE) is available on request and with color Green/Yellow stripe.
**Copper tape with thickness 0.075/0.10/0.12mm are also available on request.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

## TABLE: IEC 60332-3-24 (CAT C)

NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-W0BK8-00 | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.6 | 0.05 | 8.6 | 1.2 | 11.2 | 0.9 | 13.0 | 1.8 | 1.24 | 16.2 | 465 | 57 |
| 2 | 7714-03C00150-W0BK8-00 | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.2 | 11.7 | 0.9 | 13.5 | 1.8 | 1.24 | 16.7 | 500 | 59 |
| 3 | 7714-04C00150-W0BK8-00 | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.2 | 12.4 | 1.25 | 14.9 | 1.8 | 1.24 | 18.1 | 635 | 64 |
| 4 | 7714-05C00150-W0BK8-00 | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.2 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 695 | 68 |
| 5 | 7714-06C00150-W0BK8-00 | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 755 | 72 |
| 6 | 7714-07C00150-W0BK8-00 | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 775 | 72 |
| 7 | 7714-08C00150-W0BK8-00 | 8 | 1.5 | 7 | 0.7 | 1.0 | 12.7 | 0.05 | 12.9 | 1.2 | 15.5 | 1.25 | 18.0 | 1.8 | 1.24 | 21.2 | 850 | 77 |
| 8 | 7714-10C00150-W0BK8-00 | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.4 | 0.05 | 14.6 | 1.2 | 17.2 | 1.25 | 19.7 | 1.8 | 1.24 | 22.9 | 970 | 83 |
| 9 | 7714-12C00150-W0BK8-00 | 12 | 1.5 | 7 | 0.7 | 1.0 | 14.8 | 0.05 | 15.0 | 1.2 | 17.6 | 1.6 | 20.8 | 1.8 | 1.24 | 24.0 | 1145 | 88 |
| 10 | 7714-14C00150-W0BK8-00 | 14 | 1.5 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1215 | 91 |
| 11 | 7714-15C00150-W0BK8-00 | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1290 | 95 |
| 12 | 7714-16C00150-W0BK8-00 | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1310 | 95 |
| 13 | 7714-18C00150-W0BK8-00 | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.6 | 23.4 | 1.8 | 1.24 | 26.6 | 1385 | 98 |
| 14 | 7714-19C00150-W0BK8-00 | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.6 | 23.4 | 1.8 | 1.24 | 26.6 | 1405 | 98 |
| 15 | 7714-20C00150-W0BK8-00 | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.3 | 0.05 | 18.5 | 1.2 | 21.1 | 1.6 | 24.3 | 1.8 | 1.24 | 27.5 | 1470 | 102 |
| 16 | 7714-22C00150-W0BK8-00 | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.2 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 28.6 | 1570 | 106 |
| 17 | 7714-24C00150-W0BK8-00 | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1655 | 110 |
| 18 | 7714-25C00150-W0BK8-00 | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1675 | 110 |
| 19 | 7714-26C00150-W0BK8-00 | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1695 | 110 |
| 20 | 7714-30C00150-W0BK8-00 | 30 | 1.5 | 7 | 0.7 | 1.0 | 21.6 | 0.05 | 21.8 | 1.2 | 24.4 | 1.6 | 27.6 | 1.9 | 1.32 | 31.0 | 1850 | 122 |
| 21 | 7714-32C00150-W0BK8-00 | 32 | 1.5 | 7 | 0.7 | 1.0 | 22.4 | 0.05 | 22.6 | 1.2 | 25.2 | 1.6 | 28.4 | 1.9 | 1.32 | 31.8 | 1920 | 125 |
| 22 | 7714-35C00150-W0BK8-00 | 35 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.2 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2030 | 129 |
| 23 | 7714-36C00150-W0BK8-00 | 36 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.2 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2050 | 129 |
| 24 | 7714-40C00150-W0BK8-00 | 40 | 1.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.2 | 27.1 | 1.6 | 30.3 | 2.0 | 1.40 | 33.9 | 2200 | 140 |
| 25 | 7714-50C00150-W0BK8-00 | 50 | 1.5 | 7 | 0.7 | 1.0 | 27.4 | 0.05 | 27.6 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 2790 | 166 |
| 26 | 7714-61C00150-W0BK8-00 | 61 | 1.5 | 7 | 0.7 | 1.2 | 29.7 | 0.05 | 29.9 | 1.2 | 32.5 | 2.0 | 36.5 | 2.2 | 1.56 | 40.5 | 3200 | 185 |
| 27 | 7714-02C00250-W0BK8-00 | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.2 | 12.0 | 0.9 | 13.8 | 1.8 | 1.24 | 17.0 | 575 | 60 |
| 28 | 7714-03C00250-W0BK8-00 | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.2 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 650 | 65 |
| 29 | 7714-04C00250-W0BK8-00 | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.2 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 720 | 69 |
| 30 | 7714-05C00250-W0BK8-00 | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.2 | 14.4 | 1.25 | 16.9 | 1.8 | 1.24 | 20.1 | 790 | 72 |
| 31 | 7714-06C00250-W0BK8-00 | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.2 | 15.4 | 1.25 | 17.9 | 1.8 | 1.24 | 21.1 | 865 | 76 |
| 32 | 7714-07C00250-W0BK8-00 | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.2 | 15.4 | 1.25 | 17.9 | 1.8 | 1.24 | 21.1 | 895 | 76 |

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 33 | 7714-08C00250-W0BK8-00 | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.2 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 990 | 83 |
| 34 | 7714-10C00250-W0BK8-00 | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.0 | 0.05 | 16.2 | 1.2 | 18.8 | 1.60 | 22.0 | 1.8 | 1.24 | 25.2 | 1260 | 93 |
| 35 | 7714-12C00250-W0BK8-00 | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.6 | 0.05 | 16.8 | 1.2 | 19.4 | 1.60 | 22.6 | 1.8 | 1.24 | 25.8 | 1345 | 95 |
| 36 | 7714-14C00250-W0BK8-00 | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.60 | 23.4 | 1.8 | 1.24 | 26.6 | 1450 | 98 |
| 37 | 7714-15C00250-W0BK8-00 | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.60 | 24.4 | 1.8 | 1.24 | 27.6 | 1520 | 102 |
| 38 | 7714-16C00250-W0BK8-00 | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.60 | 24.4 | 1.8 | 1.24 | 27.6 | 1550 | 102 |
| 39 | 7714-18C00250-W0BK8-00 | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.5 | 0.05 | 19.7 | 1.2 | 22.3 | 1.60 | 25.5 | 1.8 | 1.24 | 28.7 | 1665 | 106 |
| 40 | 7714-19C00250-W0BK8-00 | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.5 | 0.05 | 19.7 | 1.2 | 22.3 | 1.60 | 25.5 | 1.8 | 1.24 | 28.7 | 1695 | 106 |
| 41 | 7714-20C00250-W0BK8-00 | 20 | 2.5 | 7 | 0.7 | 1.0 | 20.6 | 0.05 | 20.8 | 1.2 | 23.4 | 1.60 | 26.6 | 1.8 | 1.24 | 29.8 | 1780 | 111 |
| 42 | 7714-22C00250-W0BK8-00 | 22 | 2.5 | 7 | 0.7 | 1.0 | 21.7 | 0.05 | 21.9 | 1.2 | 24.5 | 1.60 | 27.7 | 1.9 | 1.32 | 31.1 | 1905 | 122 |
| 43 | 7714-24C00250-W0BK8-00 | 24 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2025 | 127 |
| 44 | 7714-25C00250-W0BK8-00 | 25 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2055 | 127 |
| 45 | 7714-26C00250-W0BK8-00 | 26 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2085 | 127 |
| 46 | 7714-30C00250-W0BK8-00 | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.2 | 27.1 | 1.60 | 30.3 | 2.0 | 1.40 | 33.9 | 2295 | 140 |
| 47 | 7714-32C00250-W0BK8-00 | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.3 | 0.05 | 25.5 | 1.2 | 28.1 | 2.0 | 32.1 | 2.0 | 1.40 | 35.7 | 2605 | 148 |
| 48 | 7714-35C00250-W0BK8-00 | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.3 | 0.05 | 26.5 | 1.2 | 29.1 | 2.0 | 33.1 | 2.1 | 1.48 | 36.9 | 2785 | 161 |
| 49 | 7714-36C00250-W0BK8-00 | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.3 | 0.05 | 26.5 | 1.2 | 29.1 | 2.0 | 33.1 | 2.1 | 1.48 | 36.9 | 2810 | 161 |
| 50 | 7714-40C00250-W0BK8-00 | 40 | 2.5 | 7 | 0.7 | 1.0 | 27.4 | 0.05 | 27.6 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3000 | 166 |
| 51 | 7714-50C00250-W0BK8-00 | 50 | 2.5 | 7 | 0.7 | 1.2 | 31.3 | 0.05 | 31.5 | 1.2 | 34.1 | 2.0 | 38.1 | 2.2 | 1.56 | 42.1 | 3560 | 193 |
| 52 | 7714-61C00250-W0BK8-00 | 61 | 2.5 | 7 | 0.7 | 1.2 | 33.5 | 0.05 | 33.7 | 1.2 | 36.3 | 2.0 | 40.3 | 2.3 | 1.64 | 44.3 | 4005 | 212 |

## TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)

NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-W0BK8-0A | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.6 | 0.05 | 8.6 | 1.2 | 11.2 | 0.9 | 13.0 | 1.8 | 1.24 | 16.2 | 465 | 57 |
| 2 | 7714-03C00150-W0BK8-0A | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.2 | 11.7 | 0.9 | 13.5 | 1.8 | 1.24 | 16.7 | 500 | 59 |
| 3 | 7714-04C00150-W0BK8-0A | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.2 | 12.4 | 1.25 | 14.9 | 1.8 | 1.24 | 18.1 | 635 | 64 |
| 4 | 7714-05C00150-W0BK8-0A | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.2 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 695 | 68 |
| 5 | 7714-06C00150-W0BK8-0A | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 755 | 72 |
| 6 | 7714-07C00150-W0BK8-0A | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 775 | 72 |
| 7 | 7714-08C00150-W0BK8-0A | 8 | 1.5 | 7 | 0.7 | 1.0 | 12.7 | 0.05 | 12.9 | 1.2 | 15.5 | 1.25 | 18.0 | 1.8 | 1.24 | 21.2 | 850 | 77 |
| 8 | 7714-10C00150-W0BK8-0A | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.4 | 0.05 | 14.6 | 1.2 | 17.2 | 1.25 | 19.7 | 1.8 | 1.24 | 22.9 | 970 | 83 |
| 9 | 7714-12C00150-W0BK8-0A | 12 | 1.5 | 7 | 0.7 | 1.0 | 14.8 | 0.05 | 15.0 | 1.2 | 17.6 | 1.6 | 20.8 | 1.8 | 1.24 | 24.0 | 1145 | 88 |
| 10 | 7714-14C00150-W0BK8-0A | 14 | 1.5 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1215 | 91 |
| 11 | 7714-15C00150-W0BK8-0A | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1290 | 95 |
| 12 | 7714-16C00150-W0BK8-0A | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1310 | 95 |
| 13 | 7714-18C00150-W0BK8-0A | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.6 | 23.4 | 1.8 | 1.24 | 26.6 | 1385 | 98 |
| 14 | 7714-19C00150-W0BK8-0A | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.6 | 23.4 | 1.8 | 1.24 | 26.6 | 1405 | 98 |
| 15 | 7714-20C00150-W0BK8-0A | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.3 | 0.05 | 18.5 | 1.2 | 21.1 | 1.6 | 24.3 | 1.8 | 1.24 | 27.5 | 1470 | 102 |
| 16 | 7714-22C00150-W0BK8-0A | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.2 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 28.6 | 1570 | 106 |
| 17 | 7714-24C00150-W0BK8-0A | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1655 | 110 |
| 18 | 7714-25C00150-W0BK8-0A | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1675 | 110 |
| 19 | 7714-26C00150-W0BK8-0A | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1695 | 110 |
| 20 | 7714-30C00150-W0BK8-0A | 30 | 1.5 | 7 | 0.7 | 1.0 | 21.6 | 0.05 | 21.8 | 1.2 | 24.4 | 1.6 | 27.6 | 1.9 | 1.32 | 31.0 | 1850 | 122 |
| 21 | 7714-32C00150-W0BK8-0A | 32 | 1.5 | 7 | 0.7 | 1.0 | 22.4 | 0.05 | 22.6 | 1.2 | 25.2 | 1.6 | 28.4 | 1.9 | 1.32 | 31.8 | 1920 | 125 |
| 22 | 7714-35C00150-W0BK8-0A | 35 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.2 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2030 | 129 |
| 23 | 7714-36C00150-W0BK8-0A | 36 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.2 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2050 | 129 |
| 24 | 7714-40C00150-W0BK8-0A | 40 | 1.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.2 | 27.1 | 1.6 | 30.3 | 2.0 | 1.40 | 33.9 | 2200 | 140 |
| 25 | 7714-50C00150-W0BK8-0A | 50 | 1.5 | 7 | 0.7 | 1.0 | 27.4 | 0.05 | 27.6 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 2790 | 166 |
| 26 | 7714-61C00150-W0BK8-0A | 61 | 1.5 | 7 | 0.7 | 1.2 | 29.7 | 0.05 | 29.9 | 1.2 | 32.5 | 2.0 | 36.5 | 2.2 | 1.56 | 40.5 | 3200 | 185 |
| 27 | 7714-02C00250-W0BK8-0A | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.2 | 12.0 | 0.9 | 13.8 | 1.8 | 1.24 | 17.0 | 575 | 60 |
| 28 | 7714-03C00250-W0BK8-0A | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.2 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 650 | 65 |
| 29 | 7714-04C00250-W0BK8-0A | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.2 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 720 | 69 |
| 30 | 7714-05C00250-W0BK8-0A | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.2 | 14.4 | 1.25 | 16.9 | 1.8 | 1.24 | 20.1 | 790 | 72 |
| 31 | 7714-06C00250-W0BK8-0A | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.2 | 15.4 | 1.25 | 17.9 | 1.8 | 1.24 | 21.1 | 865 | 76 |
| 32 | 7714-07C00250-W0BK8-0A | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.2 | 15.4 | 1.25 | 17.9 | 1.8 | 1.24 | 21.1 | 895 | 76 |
| 33 | 7714-08C00250-W0BK8-0A | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.2 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 990 | 83 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**

NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 33 | 7714-10C00250-W0BK8-0A | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.0 | 0.05 | 16.2 | 1.2 | 18.8 | 1.60 | 22.0 | 1.8 | 1.24 | 25.2 | 1260 | 93 |
| 34 | 7714-12C00250-W0BK8-0A | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.6 | 0.05 | 16.8 | 1.2 | 19.4 | 1.60 | 22.6 | 1.8 | 1.24 | 25.8 | 1345 | 95 |
| 35 | 7714-14C00250-W0BK8-0A | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.60 | 23.4 | 1.8 | 1.24 | 26.6 | 1450 | 98 |
| 36 | 7714-15C00250-W0BK8-0A | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.60 | 24.4 | 1.8 | 1.24 | 27.6 | 1520 | 102 |
| 37 | 7714-16C00250-W0BK8-0A | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.60 | 24.4 | 1.8 | 1.24 | 27.6 | 1550 | 102 |
| 38 | 7714-18C00250-W0BK8-0A | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.5 | 0.05 | 19.7 | 1.2 | 22.3 | 1.60 | 25.5 | 1.8 | 1.24 | 28.7 | 1665 | 106 |
| 39 | 7714-19C00250-W0BK8-0A | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.5 | 0.05 | 19.7 | 1.2 | 22.3 | 1.60 | 25.5 | 1.8 | 1.24 | 28.7 | 1695 | 106 |
| 40 | 7714-20C00250-W0BK8-0A | 20 | 2.5 | 7 | 0.7 | 1.0 | 20.6 | 0.05 | 20.8 | 1.2 | 23.4 | 1.60 | 26.6 | 1.8 | 1.24 | 29.8 | 1780 | 111 |
| 41 | 7714-22C00250-W0BK8-0A | 22 | 2.5 | 7 | 0.7 | 1.0 | 21.7 | 0.05 | 21.9 | 1.2 | 24.5 | 1.60 | 27.7 | 1.9 | 1.32 | 31.1 | 1905 | 122 |
| 42 | 7714-24C00250-W0BK8-0A | 24 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2025 | 127 |
| 43 | 7714-25C00250-W0BK8-0A | 25 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2055 | 127 |
| 44 | 7714-26C00250-W0BK8-0A | 26 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2085 | 127 |
| 45 | 7714-30C00250-W0BK8-0A | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.2 | 27.1 | 1.60 | 30.3 | 2.0 | 1.40 | 33.9 | 2295 | 140 |
| 46 | 7714-32C00250-W0BK8-0A | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.3 | 0.05 | 25.5 | 1.2 | 28.1 | 2.0 | 32.1 | 2.0 | 1.40 | 35.7 | 2605 | 148 |
| 47 | 7714-35C00250-W0BK8-0A | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.3 | 0.05 | 26.5 | 1.2 | 29.1 | 2.0 | 33.1 | 2.1 | 1.48 | 36.9 | 2785 | 161 |
| 48 | 7714-36C00250-W0BK8-0A | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.3 | 0.05 | 26.5 | 1.2 | 29.1 | 2.0 | 33.1 | 2.1 | 1.48 | 36.9 | 2810 | 161 |
| 49 | 7714-40C00250-W0BK8-0A | 40 | 2.5 | 7 | 0.7 | 1.0 | 27.4 | 0.05 | 27.6 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3000 | 166 |
| 50 | 7714-50C00250-W0BK8-0A | 50 | 2.5 | 7 | 0.7 | 1.2 | 31.3 | 0.05 | 31.5 | 1.2 | 34.1 | 2.0 | 38.1 | 2.2 | 1.56 | 42.1 | 3560 | 193 |
| 51 | 7714-61C00250-W0BK8-0A | 61 | 2.5 | 7 | 0.7 | 1.2 | 33.5 | 0.05 | 33.7 | 1.2 | 36.3 | 2.0 | 40.3 | 2.3 | 1.64 | 44.3 | 4005 | 212 |

## TABLE: IEC 60332-1-2

NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-W0BK8-NI | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.6 | 0.05 | 8.6 | 1.2 | 11.2 | 0.9 | 13.0 | 1.8 | 1.24 | 16.2 | 465 | 57 |
| 2 | 7714-03C00150-W0BK8-NI | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.2 | 11.7 | 0.9 | 13.5 | 1.8 | 1.24 | 16.7 | 500 | 59 |
| 3 | 7714-04C00150-W0BK8-NI | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.2 | 12.4 | 1.25 | 14.9 | 1.8 | 1.24 | 18.1 | 635 | 64 |
| 4 | 7714-05C00150-W0BK8-NI | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.2 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 695 | 68 |
| 5 | 7714-06C00150-W0BK8-NI | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 755 | 72 |
| 6 | 7714-07C00150-W0BK8-NI | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 775 | 72 |
| 7 | 7714-08C00150-W0BK8-NI | 8 | 1.5 | 7 | 0.7 | 1.0 | 12.7 | 0.05 | 12.9 | 1.2 | 15.5 | 1.25 | 18.0 | 1.8 | 1.24 | 21.2 | 850 | 77 |
| 8 | 7714-10C00150-W0BK8-NI | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.4 | 0.05 | 14.6 | 1.2 | 17.2 | 1.25 | 19.7 | 1.8 | 1.24 | 22.9 | 970 | 83 |
| 9 | 7714-12C00150-W0BK8-NI | 12 | 1.5 | 7 | 0.7 | 1.0 | 14.8 | 0.05 | 15.0 | 1.2 | 17.6 | 1.6 | 20.8 | 1.8 | 1.24 | 24.0 | 1145 | 88 |
| 10 | 7714-14C00150-W0BK8-NI | 14 | 1.5 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1215 | 91 |
| 11 | 7714-15C00150-W0BK8-NI | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1290 | 95 |
| 12 | 7714-16C00150-W0BK8-NI | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1310 | 95 |
| 13 | 7714-18C00150-W0BK8-NI | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.6 | 23.4 | 1.8 | 1.24 | 26.6 | 1385 | 98 |
| 14 | 7714-19C00150-W0BK8-NI | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.6 | 23.4 | 1.8 | 1.24 | 26.6 | 1405 | 98 |
| 15 | 7714-20C00150-W0BK8-NI | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.3 | 0.05 | 18.5 | 1.2 | 21.1 | 1.6 | 24.3 | 1.8 | 1.24 | 27.5 | 1470 | 102 |
| 16 | 7714-22C00150-W0BK8-NI | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.2 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 28.6 | 1570 | 106 |
| 17 | 7714-24C00150-W0BK8-NI | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1655 | 110 |
| 18 | 7714-25C00150-W0BK8-NI | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1675 | 110 |
| 19 | 7714-26C00150-W0BK8-NI | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1695 | 110 |
| 20 | 7714-30C00150-W0BK8-NI | 30 | 1.5 | 7 | 0.7 | 1.0 | 21.6 | 0.05 | 21.8 | 1.2 | 24.4 | 1.6 | 27.6 | 1.9 | 1.32 | 31.0 | 1850 | 122 |
| 21 | 7714-32C00150-W0BK8-NI | 32 | 1.5 | 7 | 0.7 | 1.0 | 22.4 | 0.05 | 22.6 | 1.2 | 25.2 | 1.6 | 28.4 | 1.9 | 1.32 | 31.8 | 1920 | 125 |
| 22 | 7714-35C00150-W0BK8-NI | 35 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.2 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2030 | 129 |
| 23 | 7714-36C00150-W0BK8-NI | 36 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.2 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2050 | 129 |
| 24 | 7714-40C00150-W0BK8-NI | 40 | 1.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.2 | 27.1 | 1.6 | 30.3 | 2.0 | 1.40 | 33.9 | 2200 | 140 |
| 25 | 7714-50C00150-W0BK8-NI | 50 | 1.5 | 7 | 0.7 | 1.0 | 27.4 | 0.05 | 27.6 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 2790 | 166 |
| 26 | 7714-61C00150-W0BK8-NI | 61 | 1.5 | 7 | 0.7 | 1.2 | 29.7 | 0.05 | 29.9 | 1.2 | 32.5 | 2.0 | 36.5 | 2.2 | 1.56 | 40.5 | 3200 | 185 |
| 27 | 7714-02C00250-W0BK8-NI | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.2 | 12.0 | 0.9 | 13.8 | 1.8 | 1.24 | 17.0 | 575 | 60 |
| 28 | 7714-03C00250-W0BK8-NI | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.2 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 650 | 65 |
| 29 | 7714-04C00250-W0BK8-NI | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.2 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 720 | 69 |
| 30 | 7714-05C00250-W0BK8-NI | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.2 | 14.4 | 1.25 | 16.9 | 1.8 | 1.24 | 20.1 | 790 | 72 |
| 31 | 7714-06C00250-W0BK8-NI | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.2 | 15.4 | 1.25 | 17.9 | 1.8 | 1.24 | 21.1 | 865 | 76 |
| 32 | 7714-07C00250-W0BK8-NI | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.2 | 15.4 | 1.25 | 17.9 | 1.8 | 1.24 | 21.1 | 895 | 76 |
| 33 | 7714-08C00250-W0BK8-NI | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.2 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 990 | 83 |
| 33 | 7714-10C00250-W0BK8-NI | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.0 | 0.05 | 16.2 | 1.2 | 18.8 | 1.60 | 22.0 | 1.8 | 1.24 | 25.2 | 1260 | 93 |

**TABLE: IEC 60332-1-2**

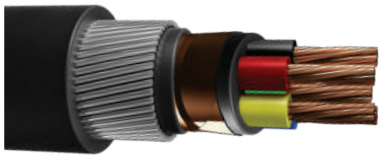
NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 34 | 7714-12C00250-W0BK8-NI | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.6 | 0.05 | 16.8 | 1.2 | 19.4 | 1.60 | 22.6 | 1.8 | 1.24 | 25.8 | 1345 | 95 |
| 36 | 7714-14C00250-W0BK8-NI | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.60 | 23.4 | 1.8 | 1.24 | 26.6 | 1450 | 98 |
| 36 | 7714-15C00250-W0BK8-NI | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.60 | 24.4 | 1.8 | 1.24 | 27.6 | 1520 | 102 |
| 37 | 7714-16C00250-W0BK8-NI | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.60 | 24.4 | 1.8 | 1.24 | 27.6 | 1550 | 102 |
| 38 | 7714-18C00250-W0BK8-NI | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.5 | 0.05 | 19.7 | 1.2 | 22.3 | 1.60 | 25.5 | 1.8 | 1.24 | 28.7 | 1665 | 106 |
| 39 | 7714-19C00250-W0BK8-NI | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.5 | 0.05 | 19.7 | 1.2 | 22.3 | 1.60 | 25.5 | 1.8 | 1.24 | 28.7 | 1695 | 106 |
| 40 | 7714-20C00250-W0BK8-NI | 20 | 2.5 | 7 | 0.7 | 1.0 | 20.6 | 0.05 | 20.8 | 1.2 | 23.4 | 1.60 | 26.6 | 1.8 | 1.24 | 29.8 | 1780 | 111 |
| 41 | 7714-22C00250-W0BK8-NI | 22 | 2.5 | 7 | 0.7 | 1.0 | 21.7 | 0.05 | 21.9 | 1.2 | 24.5 | 1.60 | 27.7 | 1.9 | 1.32 | 31.1 | 1905 | 122 |
| 42 | 7714-24C00250-W0BK8-NI | 24 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2025 | 127 |
| 43 | 7714-25C00250-W0BK8-NI | 25 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2055 | 127 |
| 44 | 7714-26C00250-W0BK8-NI | 26 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2085 | 127 |
| 45 | 7714-30C00250-W0BK8-NI | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.2 | 27.1 | 1.60 | 30.3 | 2.0 | 1.40 | 33.9 | 2295 | 140 |
| 46 | 7714-32C00250-W0BK8-NI | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.3 | 0.05 | 25.5 | 1.2 | 28.1 | 2.0 | 32.1 | 2.0 | 1.40 | 35.7 | 2605 | 148 |
| 47 | 7714-35C00250-W0BK8-NI | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.3 | 0.05 | 26.5 | 1.2 | 29.1 | 2.0 | 33.1 | 2.1 | 1.48 | 36.9 | 2785 | 161 |
| 48 | 7714-36C00250-W0BK8-NI | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.3 | 0.05 | 26.5 | 1.2 | 29.1 | 2.0 | 33.1 | 2.1 | 1.48 | 36.9 | 2810 | 161 |
| 49 | 7714-40C00250-W0BK8-NI | 40 | 2.5 | 7 | 0.7 | 1.0 | 27.4 | 0.05 | 27.6 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 3000 | 166 |
| 50 | 7714-50C00250-W0BK8-NI | 50 | 2.5 | 7 | 0.7 | 1.2 | 31.3 | 0.05 | 31.5 | 1.2 | 34.1 | 2.0 | 38.1 | 2.2 | 1.56 | 42.1 | 3560 | 193 |
| 51 | 7714-61C00250-W0BK8-NI | 61 | 2.5 | 7 | 0.7 | 1.2 | 33.5 | 0.05 | 33.7 | 1.2 | 36.3 | 2.0 | 40.3 | 2.3 | 1.64 | 44.3 | 4005 | 212 |

# POWER, MULTI CORE SCREENED ARMOURED CABLE

CU/XLPE/LSZH/CUT/LSZH/GSWA/LSZH

SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

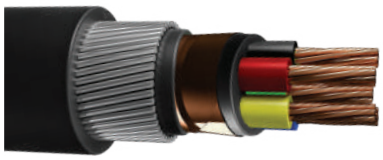
| | |
|---|---|
| Conductor | Stranded annealed plain copper Class 2 of IEC 60228. |
| Insulation | Cross linked Polyethylene (XLPE) to IEC-60502-1. |
| Color Code* | 2 Core: Red & Black.<br>3 Core: Red, Yellow & Blue.<br>4 Core: Red, Yellow, Blue & Black.<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black Color. |
| Metallic Screen** | The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. |
| Bedding | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black Color. |
| Armour | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath*** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/GSWA/LSZH SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

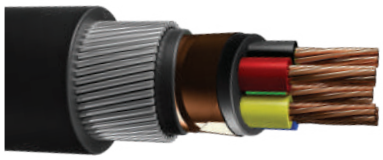
*Other Insulation color available on request.
**Copper tape with thickness 0.075/0.10/0.12mm are also available on request.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & bove 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-W0BK8-H0 | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 0.05 | 8.6 | 1.2 | 11.2 | 0.9 | 13.0 | 1.8 | 1.24 | 16.2 | 455 | 57 |
| 2 | 7714-02C00250-W0BK8-H0 | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.2 | 12.0 | 0.9 | 13.8 | 1.8 | 1.24 | 17.0 | 565 | 60 |
| 3 | 7714-02C00400-W0BK8-H0 | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 0.05 | 10.4 | 1.2 | 13.1 | 1.25 | 15.5 | 1.8 | 1.24 | 18.7 | 660 | 67 |
| 4 | 7714-02C00600-W0BK8-H0 | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 755 | 72 |
| 5 | 7714-02C01000-W0BK8-H0 | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.2 | 16.1 | 1.25 | 18.6 | 1.8 | 1.24 | 21.8 | 920 | 79 |
| 6 | 7714-03C00150-W0BK8-H0 | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.2 | 11.7 | 0.9 | 13.5 | 1.8 | 1.24 | 16.7 | 490 | 59 |
| 7 | 7714-03C00250-W0BK8-H0 | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.2 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 645 | 65 |
| 8 | 7714-03C00400-W0BK8-H0 | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 0.05 | 11.1 | 1.2 | 13.7 | 1.25 | 16.2 | 1.8 | 1.24 | 19.4 | 740 | 70 |
| 9 | 7714-03C00600-W0BK8-H0 | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 0.05 | 12.4 | 1.2 | 15.0 | 1.25 | 17.5 | 1.8 | 1.24 | 20.7 | 860 | 75 |
| 10 | 7714-03C01000-W0BK8-H0 | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.2 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 1060 | 83 |
| 11 | 7714-04C00150-W0BK8-H0 | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.2 | 12.4 | 1.25 | 15.0 | 1.8 | 1.24 | 18.1 | 630 | 64 |
| 12 | 7714-04C00250-W0BK8-H0 | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.2 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 710 | 69 |
| 13 | 7714-04C00400-W0BK8-H0 | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 0.05 | 12.1 | 1.2 | 14.7 | 1.25 | 17.2 | 1.8 | 1.24 | 20.4 | 825 | 74 |
| 14 | 7714-04C00600-W0BK8-H0 | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 0.05 | 13.5 | 1.2 | 16.1 | 1.25 | 18.6 | 1.8 | 1.24 | 21.8 | 965 | 79 |
| 15 | 7714-04C01000-W0BK8-H0 | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1350 | 91 |
| 16 | 7714-05C00150-W0BK8-H0-02 | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.2 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 690 | 68 |
| 17 | 7714-05C00250-W0BK8-H0-02 | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.2 | 14.4 | 1.25 | 16.9 | 1.8 | 1.24 | 20.1 | 780 | 72 |
| 18 | 7714-05C00400-W0BK8-H0-02 | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 0.05 | 13.2 | 1.2 | 15.8 | 1.25 | 18.3 | 1.8 | 1.24 | 21.5 | 920 | 78 |
| 19 | 7714-05C00600-W0BK8-H0-02 | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.2 | 17.4 | 1.25 | 19.9 | 1.8 | 1.24 | 23.1 | 1085 | 84 |
| 20 | 7714-05C01000-W0BK8-H0-02 | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 0.05 | 17.3 | 1.2 | 19.9 | 1.6 | 23.1 | 1.8 | 1.24 | 26.3 | 1530 | 97 |

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
COMPACTED CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 77D4-02C01600-W0BK8-H0 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 0.05 | 14.8 | 1.2 | 17.4 | 1.6 | 20.6 | 1.8 | 1.24 | 23.8 | 1200 | 87 |
| 2 | 77D4-02C02500-W0BK8-H0 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 0.05 | 18.0 | 1.2 | 20.6 | 1.6 | 23.8 | 1.8 | 1.24 | 27.0 | 1525 | 100 |
| 3 | 77D4-02C03500-W0BK8-H0 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 0.05 | 20.2 | 1.2 | 22.8 | 1.6 | 26.0 | 1.8 | 1.24 | 29.2 | 1820 | 108 |
| 4 | 77D4-02C05000-W0BK8-H0 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 0.05 | 23.3 | 1.2 | 25.9 | 1.6 | 29.1 | 1.9 | 1.32 | 32.5 | 2235 | 128 |
| 5 | 77D4-02C07000-W0BK8-H0 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 0.05 | 26.7 | 1.2 | 29.3 | 2.0 | 33.3 | 2.1 | 1.48 | 37.1 | 3035 | 162 |
| 6 | 77D4-02C09500-W0BK8-H0 | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 0.05 | 30.4 | 1.2 | 33.0 | 2.0 | 37.0 | 2.2 | 1.56 | 41.0 | 3735 | 188 |
| 7 | 77D4-02C12000-W0BK8-H0 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 0.05 | 33.7 | 1.2 | 36.3 | 2.0 | 40.3 | 2.3 | 1.64 | 44.3 | 4415 | 212 |
| 8 | 77D4-02C15000-W0BK8-H0 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 0.05 | 37.5 | 1.3 | 40.3 | 2.5 | 45.3 | 2.5 | 1.80 | 49.7 | 5615 | 259 |
| 9 | 77D4-02C18500-W0BK8-H0 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 0.05 | 41.9 | 1.4 | 44.9 | 2.5 | 49.9 | 2.6 | 1.88 | 54.5 | 6680 | 297 |
| 10 | 77D4-02C24000-W0BK8-H0 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 0.05 | 46.8 | 1.5 | 50.0 | 2.5 | 55.0 | 2.8 | 2.04 | 59.8 | 8120 | 351 |
| 11 | 77D4-02C30000-W0BK8-H0 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 0.05 | 51.9 | 1.6 | 55.3 | 2.5 | 60.3 | 2.9 | 2.12 | 65.3 | 9780 | 398 |
| 12 | 77D4-02C40000-W0BK8-H0 | 2C | 400 | 61 | 2.0 | 1.6 | 58.8 | 0.05 | 59.0 | 1.7 | 62.6 | 2.5 | 67.6 | 3.2 | 2.36 | 73.2 | 11955 | 493 |
| 13 | 77D4-03C01600-W0BK8-H0 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1390 | 91 |
| 14 | 77D4-03C02500-W0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 0.05 | 19.2 | 1.2 | 21.8 | 1.6 | 25.0 | 1.8 | 1.24 | 28.2 | 1815 | 104 |
| 15 | 77D4-03C03500-W0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 0.05 | 21.6 | 1.2 | 24.2 | 1.6 | 27.4 | 1.9 | 1.32 | 30.8 | 2240 | 121 |
| 16 | 77D4-04C01600-W0BK8-H0 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 0.05 | 17.4 | 1.2 | 20.0 | 1.6 | 23.2 | 1.8 | 1.24 | 26.4 | 1630 | 97 |
| 17 | 77D4-05C01600-W0BK8-H0-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 0.05 | 19.1 | 1.2 | 21.7 | 1.6 | 24.9 | 1.8 | 1.24 | 28.1 | 1865 | 104 |
| 18 | 77D4-05C02500-W0BK8-H0-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 0.05 | 23.4 | 1.2 | 26.0 | 1.6 | 29.2 | 1.9 | 1.32 | 32.6 | 2530 | 128 |
| 19 | 77D4-05C03500-W0BK8-H0-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 0.05 | 26.3 | 1.2 | 28.9 | 2.0 | 32.9 | 2.1 | 1.48 | 36.7 | 3395 | 160 |
| 20 | 77D4-05C05000-W0BK8-H0-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 0.05 | 30.9 | 1.2 | 33.5 | 2.0 | 37.5 | 2.2 | 1.56 | 41.5 | 4290 | 190 |
| 21 | 77D4-05C07000-W0BK8-H0-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 0.05 | 35.6 | 1.2 | 38.2 | 2.0 | 42.2 | 2.4 | 1.72 | 46.4 | 5565 | 232 |
| 22 | 77D4-05C09500-W0BK8-H0-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 0.05 | 40.4 | 1.3 | 43.2 | 2.5 | 48.2 | 2.5 | 1.80 | 52.6 | 7475 | 275 |
| 23 | 77D4-05C12000-W0BK8-H0-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 1.4 | 47.8 | 2.5 | 52.8 | 2.7 | 1.96 | 57.6 | 7925 | 326 |

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 77F4-03C02500-W0BK8-H0 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1690 | 95 |
| 2 | 77F4-03C03500-W0BK8-H0 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.6 | 24.4 | 1.9 | 1.32 | 27.8 | 2065 | 108 |
| 3 | 77F4-03C05000-W0BK8-H0 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 0.05 | 21.4 | 1.2 | 24.0 | 1.6 | 27.2 | 2.0 | 1.40 | 30.8 | 2590 | 127 |
| 4 | 77F4-03C07000-W0BK8-H0 | 3C | 70 | 19 | 1.1 | 1.2 | 24.7 | 0.05 | 24.9 | 1.2 | 27.5 | 2.0 | 31.5 | 2.1 | 1.48 | 35.3 | 3605 | 153 |
| 5 | 77F4-03C09500-W0BK8-H0 | 3C | 95 | 19 | 1.1 | 1.2 | 27.5 | 0.05 | 27.7 | 1.2 | 30.4 | 2.0 | 34.4 | 2.3 | 1.64 | 38.4 | 4450 | 183 |
| 6 | 77F4-03C12000-W0BK8-H0 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 0.05 | 30.7 | 1.3 | 33.5 | 2.5 | 38.5 | 2.4 | 1.72 | 42.7 | 5700 | 213 |
| 7 | 77F4-03C15000-W0BK8-H0 | 3C | 150 | 19 | 1.4 | 1.4 | 34.4 | 0.05 | 34.6 | 1.3 | 37.4 | 2.5 | 42.4 | 2.6 | 1.88 | 47.0 | 6835 | 254 |
| 8 | 77F4-03C18500-W0BK8-H0 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 0.05 | 38.2 | 1.4 | 41.2 | 2.5 | 46.2 | 2.7 | 1.96 | 51.0 | 8075 | 287 |
| 9 | 77F4-03C24000-W0BK8-H0 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 0.05 | 42.9 | 1.5 | 46.1 | 2.5 | 51.1 | 2.9 | 2.12 | 56.1 | 10120 | 339 |
| 10 | 77F4-03C30000-W0BK8-H0 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 0.05 | 47.1 | 1.6 | 50.5 | 2.5 | 55.5 | 3.1 | 2.28 | 60.9 | 12305 | 394 |
| 11 | 77F4-03C40000-W0BK8-H0 | 3C | 400 | 61 | 2.0 | 1.6 | 53.3 | 0.05 | 53.5 | 1.8 | 57.3 | 3.15 | 63.6 | 3.4 | 2.52 | 69.4 | 15830 | 493 |
| 12 | 77F4-04C02500-W0BK8-H0 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 0.05 | 19.6 | 1.2 | 22.2 | 1.6 | 25.4 | 1.9 | 1.32 | 28.8 | 2085 | 112 |
| 13 | 77F4-04C03500-W0BK8-H0 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 0.05 | 22.0 | 1.2 | 24.6 | 1.6 | 27.8 | 1.9 | 1.32 | 31.2 | 2565 | 122 |
| 14 | 77F4-04C05000-W0BK8-H0 | 4C | 50 | 19 | 1.0 | 1.0 | 25.3 | 0.05 | 25.5 | 1.2 | 28.1 | 2.0 | 32.1 | 2.1 | 1.48 | 35.9 | 3490 | 156 |
| 15 | 77F4-04C07000-W0BK8-H0 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 0.05 | 29.7 | 1.2 | 32.3 | 2.0 | 36.3 | 2.2 | 1.56 | 40.3 | 4545 | 184 |
| 16 | 77F4-04C09500-W0BK8-H0 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 0.05 | 33.2 | 1.3 | 36.0 | 2.5 | 41.0 | 2.4 | 1.72 | 45.2 | 6055 | 226 |
| 17 | 77F4-04C12000-W0BK8-H0 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 0.05 | 37.2 | 1.3 | 40.0 | 2.5 | 45.0 | 2.6 | 1.88 | 49.6 | 7335 | 269 |
| 18 | 77F4-04C15000-W0BK8-H0 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 0.05 | 41.5 | 1.4 | 44.5 | 2.5 | 49.5 | 2.7 | 1.96 | 54.3 | 8765 | 306 |
| 19 | 77F4-04C18500-W0BK8-H0 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 0.05 | 45.9 | 1.5 | 49.1 | 2.5 | 54.1 | 2.9 | 2.12 | 59.1 | 10420 | 358 |
| 20 | 77F4-04C24000-W0BK8-H0 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 0.05 | 51.6 | 1.6 | 55.0 | 2.5 | 60.0 | 3.1 | 2.28 | 65.4 | 13110 | 425 |
| 21 | 77F4-04C30000-W0BK8-H0 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 0.05 | 56.8 | 1.7 | 60.4 | 3.15 | 66.7 | 3.3 | 2.44 | 72.3 | 16700 | 501 |
| 22 | 77F4-04C40000-W0BK8-H0 | 4C | 400 | 61 | 2.0 | 1.8 | 64.9 | 0.05 | 65.1 | 1.9 | 69.1 | 3.15 | 75.4 | 3.7 | 2.76 | 81.8 | 20715 | 635 |
| 23 | 77D4-05C12000-W0BK8-H0-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 0.05 | 44.8 | 1.4 | 47.8 | 2.5 | 52.8 | 2.7 | 1.96 | 57.6 | 7925 | 326 |

# CONTROL, MULTI CORE SCREENED ARMOURED CABLE

CU/XLPE/LSZH/CUT/LSZH/GSWA/LSZH

SPECIFICATION: IEC 60502-1

| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings where low smoke and reduced toxic/corrosive gas emission during combustion are critical. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Stranded annealed plain copper Class 2 of IEC 60228. |
| Insulation | Cross linked Polyethylene (XLPE) to IEC-60502-1. |
| Color Code* | 2 Core: Red & Black.<br>3 Core: Red, Yellow & Blue.<br>4 Core: Red, Yellow, Blue & Black.<br>5C & Above: Black cores with number printing |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black color. |
| Metallic Screen** | The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. |
| Bedding | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black color. |
| Armour | A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath. |
| Outer Sheath*** | Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1.The color of the sheath shall be Black. |
| Marking on the sheath | Example - CU/XLPE/GSWA/LSZH SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 VRMS / 5 or 8400 VDC / 5 |
| Halogen Acid Gas | IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |

*Other Insulation color available on request. Cable more than five core and above, last core with protective earth (PE) is available on request and with color Green/Yellow stripe.
**Copper tape with thickness 0.075/0.10/0.12mm are also available on request.
*** Other sheath color available on request.
****Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

## TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)

NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-02C00150-W0BK8-H0 | 2 | 1.5 | 7 | 0.7 | 1.0 | 8.6 | 0.05 | 8.6 | 1.2 | 11.2 | 0.9 | 13.0 | 1.8 | 1.24 | 16.2 | 455 | 57 |
| 2 | 7714-03C00150-W0BK8-H0 | 3 | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 0.05 | 9.1 | 1.2 | 11.7 | 0.9 | 13.5 | 1.8 | 1.24 | 16.7 | 490 | 59 |
| 3 | 7714-04C00150-W0BK8-H0 | 4 | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 0.05 | 9.8 | 1.2 | 12.4 | 1.25 | 14.9 | 1.8 | 1.24 | 18.1 | 630 | 64 |
| 4 | 7714-05C00150-W0BK8-H0 | 5 | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 0.05 | 10.7 | 1.2 | 13.3 | 1.25 | 15.8 | 1.8 | 1.24 | 19.0 | 690 | 68 |
| 5 | 7714-06C00150-W0BK8-H0 | 6 | 1.5 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 745 | 72 |
| 6 | 7714-07C00150-W0BK8-H0 | 7 | 1.5 | 7 | 0.7 | 1.0 | 11.4 | 0.05 | 11.6 | 1.2 | 14.2 | 1.25 | 16.7 | 1.8 | 1.24 | 19.9 | 765 | 72 |
| 7 | 7714-08C00150-W0BK8-H0 | 8 | 1.5 | 7 | 0.7 | 1.0 | 12.7 | 0.05 | 12.9 | 1.2 | 15.5 | 1.25 | 18.0 | 1.8 | 1.24 | 21.2 | 840 | 77 |
| 8 | 7714-10C00150-W0BK8-H0 | 10 | 1.5 | 7 | 0.7 | 1.0 | 14.4 | 0.05 | 14.6 | 1.2 | 17.2 | 1.25 | 19.7 | 1.8 | 1.24 | 22.9 | 960 | 83 |
| 9 | 7714-12C00150-W0BK8-H0 | 12 | 1.5 | 7 | 0.7 | 1.0 | 14.8 | 0.05 | 15.0 | 1.2 | 17.6 | 1.6 | 20.8 | 1.8 | 1.24 | 24.0 | 1130 | 88 |
| 10 | 7714-14C00150-W0BK8-H0 | 14 | 1.5 | 7 | 0.7 | 1.0 | 15.6 | 0.05 | 15.8 | 1.2 | 18.4 | 1.6 | 21.6 | 1.8 | 1.24 | 24.8 | 1205 | 91 |
| 11 | 7714-15C00150-W0BK8-H0 | 15 | 1.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1280 | 95 |
| 12 | 7714-16C00150-W0BK8-H0 | 16 | 1.5 | 7 | 0.7 | 1.0 | 16.5 | 0.05 | 16.7 | 1.2 | 19.3 | 1.6 | 22.5 | 1.8 | 1.24 | 25.7 | 1300 | 95 |
| 13 | 7714-18C00150-W0BK8-H0 | 18 | 1.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.6 | 23.4 | 1.8 | 1.24 | 26.6 | 1370 | 98 |
| 14 | 7714-19C00150-W0BK8-H0 | 19 | 1.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.6 | 23.4 | 1.8 | 1.24 | 26.6 | 1390 | 98 |
| 15 | 7714-20C00150-W0BK8-H0 | 20 | 1.5 | 7 | 0.7 | 1.0 | 18.3 | 0.05 | 18.5 | 1.2 | 21.1 | 1.6 | 24.3 | 1.8 | 1.24 | 27.5 | 1460 | 102 |
| 16 | 7714-22C00150-W0BK8-H0 | 22 | 1.5 | 7 | 0.7 | 1.0 | 19.4 | 0.05 | 19.6 | 1.2 | 22.2 | 1.6 | 25.4 | 1.8 | 1.24 | 28.6 | 1555 | 106 |
| 17 | 7714-24C00150-W0BK8-H0 | 24 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1640 | 110 |
| 18 | 7714-25C00150-W0BK8-H0 | 25 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1660 | 110 |
| 19 | 7714-26C00150-W0BK8-H0 | 26 | 1.5 | 7 | 0.7 | 1.0 | 20.3 | 0.05 | 20.5 | 1.2 | 23.1 | 1.6 | 26.3 | 1.8 | 1.24 | 29.5 | 1680 | 110 |
| 20 | 7714-30C00150-W0BK8-H0 | 30 | 1.5 | 7 | 0.7 | 1.0 | 21.6 | 0.05 | 21.8 | 1.2 | 24.4 | 1.6 | 27.6 | 1.9 | 1.32 | 31.0 | 1835 | 122 |
| 21 | 7714-32C00150-W0BK8-H0 | 32 | 1.5 | 7 | 0.7 | 1.0 | 22.4 | 0.05 | 22.6 | 1.2 | 25.2 | 1.6 | 28.4 | 1.9 | 1.32 | 31.8 | 1905 | 125 |
| 22 | 7714-35C00150-W0BK8-H0 | 35 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.2 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2015 | 129 |
| 23 | 7714-36C00150-W0BK8-H0 | 36 | 1.5 | 7 | 0.7 | 1.0 | 23.3 | 0.05 | 23.5 | 1.2 | 26.1 | 1.6 | 29.3 | 1.9 | 1.32 | 32.7 | 2035 | 129 |
| 24 | 7714-40C00150-W0BK8-H0 | 40 | 1.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.2 | 27.1 | 1.6 | 30.3 | 2.0 | 1.40 | 33.9 | 2180 | 140 |
| 25 | 7714-50C00150-W0BK8-H0 | 50 | 1.5 | 7 | 0.7 | 1.0 | 27.4 | 0.05 | 27.6 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 2770 | 166 |
| 26 | 7714-61C00150-W0BK8-H0 | 61 | 1.5 | 7 | 0.7 | 1.2 | 29.7 | 0.05 | 29.9 | 1.2 | 32.5 | 2.0 | 36.5 | 2.2 | 1.56 | 40.5 | 3180 | 185 |
| 27 | 7714-02C00250-W0BK8-H0 | 2 | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 0.05 | 9.4 | 1.2 | 12.0 | 0.9 | 13.8 | 1.8 | 1.24 | 17.0 | 565 | 60 |
| 28 | 7714-03C00250-W0BK8-H0 | 3 | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 0.05 | 10.0 | 1.2 | 12.6 | 1.25 | 15.1 | 1.8 | 1.24 | 18.3 | 640 | 65 |
| 29 | 7714-04C00250-W0BK8-H0 | 4 | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 0.05 | 10.9 | 1.2 | 13.5 | 1.25 | 16.0 | 1.8 | 1.24 | 19.2 | 710 | 69 |
| 30 | 7714-05C00250-W0BK8-H0 | 5 | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 0.05 | 11.8 | 1.2 | 14.4 | 1.25 | 16.9 | 1.8 | 1.24 | 20.1 | 780 | 72 |
| 31 | 7714-06C00250-W0BK8-H0 | 6 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.2 | 15.4 | 1.25 | 17.9 | 1.8 | 1.24 | 21.1 | 860 | 76 |
| 32 | 7714-07C00250-W0BK8-H0 | 7 | 2.5 | 7 | 0.7 | 1.0 | 12.6 | 0.05 | 12.8 | 1.2 | 15.4 | 1.25 | 17.9 | 1.8 | 1.24 | 21.1 | 885 | 76 |

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**
NON-COMPACTED CIRCULAR CONDUCTOR:

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (MM) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (mm) | METALLIC SCREEN THICKNESS (mm) | APPROX. DIA OVER METALLIC SCREEN (mm) | BEDDING THICKNESS (mm) | APPROX. DIA. OVER BEDDING (mm) | ARMOUR WIRE DIA. (mm) | APPROX. DIA. OVER ARMOUR (mm) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Nom | Min | | | |
| 1 | 7714-08C00250-W0BK8-H0 | 8 | 2.5 | 7 | 0.7 | 1.0 | 14.2 | 0.05 | 14.4 | 1.2 | 17.0 | 1.25 | 19.5 | 1.8 | 1.24 | 22.7 | 980 | 83 |
| 2 | 7714-10C00250-W0BK8-H0 | 10 | 2.5 | 7 | 0.7 | 1.0 | 16.0 | 0.05 | 16.2 | 1.2 | 18.8 | 1.60 | 22.0 | 1.8 | 1.24 | 25.2 | 1245 | 93 |
| 3 | 7714-12C00250-W0BK8-H0 | 12 | 2.5 | 7 | 0.7 | 1.0 | 16.6 | 0.05 | 16.8 | 1.2 | 19.4 | 1.60 | 22.6 | 1.8 | 1.24 | 25.8 | 1335 | 95 |
| 4 | 7714-14C00250-W0BK8-H0 | 14 | 2.5 | 7 | 0.7 | 1.0 | 17.4 | 0.05 | 17.6 | 1.2 | 20.2 | 1.60 | 23.4 | 1.8 | 1.24 | 26.6 | 1440 | 98 |
| 5 | 7714-15C00250-W0BK8-H0 | 15 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.60 | 24.4 | 1.8 | 1.24 | 27.6 | 1505 | 102 |
| 6 | 7714-16C00250-W0BK8-H0 | 16 | 2.5 | 7 | 0.7 | 1.0 | 18.4 | 0.05 | 18.6 | 1.2 | 21.2 | 1.60 | 24.4 | 1.8 | 1.24 | 27.6 | 1535 | 102 |
| 7 | 7714-18C00250-W0BK8-H0 | 18 | 2.5 | 7 | 0.7 | 1.0 | 19.5 | 0.05 | 19.7 | 1.2 | 22.3 | 1.60 | 25.5 | 1.8 | 1.24 | 28.7 | 1650 | 106 |
| 8 | 7714-19C00250-W0BK8-H0 | 19 | 2.5 | 7 | 0.7 | 1.0 | 19.5 | 0.05 | 19.7 | 1.2 | 22.3 | 1.60 | 25.5 | 1.8 | 1.24 | 28.7 | 1680 | 106 |
| 9 | 7714-20C00250-W0BK8-H0 | 20 | 2.5 | 7 | 0.7 | 1.0 | 20.6 | 0.05 | 20.8 | 1.2 | 23.4 | 1.60 | 26.6 | 1.8 | 1.24 | 29.8 | 1765 | 111 |
| 10 | 7714-22C00250-W0BK8-H0 | 22 | 2.5 | 7 | 0.7 | 1.0 | 21.7 | 0.05 | 21.9 | 1.2 | 24.5 | 1.60 | 27.7 | 1.9 | 1.32 | 31.1 | 1890 | 122 |
| 11 | 7714-24C00250-W0BK8-H0 | 24 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2010 | 127 |
| 12 | 7714-25C00250-W0BK8-H0 | 25 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2040 | 127 |
| 13 | 7714-26C00250-W0BK8-H0 | 26 | 2.5 | 7 | 0.7 | 1.0 | 22.9 | 0.05 | 23.1 | 1.2 | 25.7 | 1.60 | 28.9 | 1.9 | 1.32 | 32.3 | 2065 | 127 |
| 14 | 7714-30C00250-W0BK8-H0 | 30 | 2.5 | 7 | 0.7 | 1.0 | 24.3 | 0.05 | 24.5 | 1.2 | 27.1 | 1.60 | 30.3 | 2.0 | 1.40 | 33.9 | 2280 | 140 |
| 15 | 7714-32C00250-W0BK8-H0 | 32 | 2.5 | 7 | 0.7 | 1.0 | 25.3 | 0.05 | 25.5 | 1.2 | 28.1 | 2.0 | 32.1 | 2.0 | 1.40 | 35.7 | 2590 | 148 |
| 16 | 7714-35C00250-W0BK8-H0 | 35 | 2.5 | 7 | 0.7 | 1.0 | 26.3 | 0.05 | 26.5 | 1.2 | 29.1 | 2.0 | 33.1 | 2.1 | 1.48 | 36.9 | 2765 | 161 |
| 17 | 7714-36C00250-W0BK8-H0 | 36 | 2.5 | 7 | 0.7 | 1.0 | 26.3 | 0.05 | 26.5 | 1.2 | 29.1 | 2.0 | 33.1 | 2.1 | 1.48 | 36.9 | 2790 | 161 |
| 18 | 7714-40C00250-W0BK8-H0 | 40 | 2.5 | 7 | 0.7 | 1.0 | 27.4 | 0.05 | 27.6 | 1.2 | 30.2 | 2.0 | 34.2 | 2.1 | 1.48 | 38.0 | 2980 | 166 |
| 19 | 7714-50C00250-W0BK8-H0 | 50 | 2.5 | 7 | 0.7 | 1.2 | 31.3 | 0.05 | 31.5 | 1.2 | 34.1 | 2.0 | 38.1 | 2.2 | 1.56 | 42.1 | 3535 | 193 |
| 20 | 7714-61C00250-W0BK8-H0 | 61 | 2.5 | 7 | 0.7 | 1.2 | 33.5 | 0.05 | 33.7 | 1.2 | 36.3 | 2.0 | 40.3 | 2.3 | 1.64 | 44.3 | 3980 | 212 |

# ELECTRIC CABLE FOR PHOTOVOLTAIC SYSTEM

CU/XL-LSHF/XL-LSHF

SPECIFICATION: BS EN 50618

| | |
|---|---|
| APPLICATION | These Low Smoke Halogen Free, flexible, single core Power cable with Cross linked insulation & sheath particularly used in Solar Photovoltaic Energy System suitable for permanant outdoor and under variable climate conditions |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Flexible annealed tinned copper class 5 as per IEC 60228. |
| Insulation | Cross Linked Low smoke halogen free according to BSEN 50618. |
| Outer sheath | Cross Linked Low smoke halogen free according to BSEN 50618. |
| Printing Text | Example: MESC H1Z2Z2-K 240mm2 BSEN 50618 |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -40°C to 90°C |
| Voltage Rating | 1.5Kv (d.c), 1.0/1.0Kv (a.c) |
| Voltage Test | 6.5kV a.c. 5/min |
| Current Carrying Capacity | EN50618 Table A.3 |
| Current Rating & Short Circuit | EN 50618 Table A.4 |
| Halogen Acid Gas | EN 50525-2-1 (≤ 0.5%)<br>EN 50525-2-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |
| UV Resistance | EN 50289-4-17 |
| Flame Retardant | BSEN 60332-1-2 |

**TABLE:**

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | INSULATION THICKNESS (MM) | OUTER SHEATH THICKNESS (MM) | APPROX. OVERALL DIAMETER (MM) | MINIMUM INSULATION RESISTANCE AT 20°C | MINIMUM INSULATION RESISTANCE AT 90°C | APPROX. WEIGHT (kg/km) (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 | 7V9X-01C00150-U0BK8-H0 | 1.5 | 0.7 | 0.8 | 4.7 | 860 | 0.86 | 34 |
| 2 | 7V9X-01C00250-U0BK8-H0 | 2.5 | 0.7 | 0.8 | 5.1 | 690 | 0.69 | 45 |
| 3 | 7V9X-01C00400-U0BK8-H0 | 4 | 0.7 | 0.8 | 5.6 | 580 | 0.58 | 60 |
| 4 | 7V9X-01C00600-U0BK8-H0 | 6 | 0.7 | 0.8 | 6.2 | 500 | 0.50 | 81 |
| 5 | 7V9X-01C01000-U0BK8-H0 | 10 | 0.7 | 0.8 | 7.1 | 420 | 0.42 | 122 |
| 6 | 7V9X-01C01600-U0BK8-H0 | 16 | 0.7 | 0.9 | 9.1 | 340 | 0.34 | 191 |
| 7 | 7V9X-01C02500-U0BK8-H0 | 25 | 0.9 | 1.0 | 11.2 | 340 | 0.34 | 287 |
| 8 | 7V9X-01C03500-U0BK8-H0 | 35 | 0.9 | 1.1 | 12.7 | 290 | 0.29 | 394 |
| 9 | 7V9X-01C05000-U0BK8-H0 | 50 | 1.0 | 1.2 | 14.7 | 270 | 0.27 | 537 |
| 10 | 7V9X-01C07000-U0BK8-H0 | 70 | 1.1 | 1.2 | 17.1 | 250 | 0.25 | 764 |
| 11 | 7V9X-01C09500-U0BK8-H0 | 95 | 1.1 | 1.3 | 19.1 | 220 | 0.22 | 988 |
| 12 | 7V9X-01C12000-U0BK8-H0 | 120 | 1.2 | 1.3 | 21.1 | 210 | 0.21 | 1242 |
| 13 | 7V9X-01C15000-U0BK8-H0 | 150 | 1.4 | 1.4 | 23.6 | 210 | 0.21 | 1553 |
| 14 | 7V9X-01C18500-U0BK8-H0 | 185 | 1.6 | 1.6 | 26.5 | 200 | 0.20 | 1947 |
| 15 | 7V9X-01C24000-U0BK8-H0 | 240 | 1.7 | 1.7 | 29.6 | 200 | 0.20 | 2544 |

**Available Colors:** "BK" = Black, «RD» = Red and «BR» = Black with Red stripe.
**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet. Other lengths are available upon request.

# ELECTRIC CABLE FOR PHOTOVOLTAIC SYSTEM

CU/XL-LSHF/XL-LSHF

SPECIFICATION: IEC 62930

| | |
|---|---|
| APPLICATION | These Low Smoke Halogen Free, flexible, single core Power cable with Cross linked insulation & sheath particularly used in Solar Photovoltaic Energy System suitable for permanant outdoor and under variable climate conditions |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Flexible annealed tinned copper class 5 as per IEC 60228. |
| Insulation | Cross Linked Low smoke halogen free according to IEC 62930. |
| Outer sheath | Cross Linked Low smoke halogen free according to IEC 62930. |
| Printing Text | Example: MESC 240mm2 62930 IEC 133 HALOGEN FREE LOW SMOKE UAE YEAR |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -40°C to 90°C |
| Voltage Rating | 1.5Kv (d.c), 1.0/1.0Kv (a.c) |
| Voltage Test | 6.5kV a.c. 5/min |
| Current Carrying Capacity | IEC 62930 Table A.3 |
| Current Rating & Short Circuit | IEC 62930 Table A.4 |
| Halogen Acid Gas | EN 50525-2-1 (≤ 0.5%)<br>EN 50525-2-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | IEC 61034-2 (Light Transmission ≥ 60%) |
| UV Resistance | EN 50289-4-17 |
| Flame Retardant | BSEN 60332-1-2 |

## TABLE

| SERIAL NO. | MESC MODEL NO. | SIZE (mm2) | INSULATION THICKNESS (MM) | OUTER SHEATH THICKNESS (MM) | APPROX. OVERALL DIAMETER (MM) | MINIMUM INSULATION RESISTANCE AT 20°C | MINIMUM INSULATION RESISTANCE AT 90°C | APPROX. WEIGHT (kg/km) (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 | 7V9X-01C00150-U0BK8-H0 | 1.5 | 0.7 | 0.8 | 4.7 | 860 | 0.86 | 34 |
| 2 | 7V9X-01C00250-U0BK8-H0 | 2.5 | 0.7 | 0.8 | 5.1 | 690 | 0.69 | 45 |
| 3 | 7V9X-01C00400-U0BK8-H0 | 4 | 0.7 | 0.8 | 5.6 | 580 | 0.58 | 60 |
| 4 | 7V9X-01C00600-U0BK8-H0 | 6 | 0.7 | 0.8 | 6.2 | 500 | 0.50 | 81 |
| 5 | 7V9X-01C01000-U0BK8-H0 | 10 | 0.7 | 0.8 | 7.1 | 420 | 0.42 | 122 |
| 6 | 7V9X-01C01600-U0BK8-H0 | 16 | 0.7 | 0.9 | 9.1 | 374 | 0.374 | 191 |
| 7 | 7V9X-01C02500-U0BK8-H0 | 25 | 0.9 | 1.0 | 11.2 | 384 | 0.384 | 287 |
| 8 | 7V9X-01C03500-U0BK8-H0 | 35 | 0.9 | 1.1 | 12.7 | 327 | 0.327 | 394 |
| 9 | 7V9X-01C05000-U0BK8-H0 | 50 | 1.0 | 1.2 | 14.7 | 317 | 0.317 | 537 |
| 10 | 7V9X-01C07000-U0BK8-H0 | 70 | 1.1 | 1.2 | 17.1 | 291 | 0.291 | 764 |
| 11 | 7V9X-01C09500-U0BK8-H0 | 95 | 1.1 | 1.3 | 19.1 | 251 | 0.251 | 988 |
| 12 | 7V9X-01C12000-U0BK8-H0 | 120 | 1.2 | 1.3 | 21.1 | 244 | 0.244 | 1242 |
| 13 | 7V9X-01C15000-U0BK8-H0 | 150 | 1.4 | 1.4 | 23.6 | 254 | 0.254 | 1553 |
| 14 | 7V9X-01C18500-U0BK8-H0 | 185 | 1.6 | 1.6 | 26.5 | 261 | 0.261 | 1947 |
| 15 | 7V9X-01C24000-U0BK8-H0 | 240 | 1.7 | 1.7 | 29.6 | 243 | 0.243 | 2544 |
| 16 | 7V9X-01C30000-U0BK8-H0 | 300 | 1.8 | 1.8 | 32.7 | 231 | 0.231 | 3130 |
| 17 | 7V9X-01C40000-U0BK8-H0 | 400 | 2.0 | 2.0 | 36.8 | 227 | 0.227 | 3970 |

**Available Colors:** : "BK" = Black, «RD» = Red and «BR» = Black with Red stripe.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet. Other lengths are available upon request.

# SINGLE & MULTI CORE RUBBER CABLE (H07RN-F)

SPECIFICATION: BS EN 50525-2-21 / BS 7919

| | |
|---|---|
| APPLICATION | This heavy duty rubber sheathed cables are suitable for use in dry, damp and wet locations in open air and in workshops having an explosive atmosphere for medium stresses. Suitable for use with industrial and agricultural appliances, heating installations, electric tools and also for transportable motors and machines. Can be used up to 1000 Volts for fixed installation and as rotor connection cable for motors. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed flexible copper class 5 as per IEC 60228. |
| Insulation | Rubber Type EI4 / EI6 as per BS EN 50363-1. |
| Color Code | 1C: Black<br>2C: Blue & Brown<br>3C: Green, Blue & Brown<br>4C: Green, Black, Blue & Brown<br>5C: Green, Black, Blue, Brown & Black |
| Assembly* | Cores twisted together to make a round assembly. A binder tape is applied over the assembly if required. |
| Outer Sheath** | Rubber Type EM2 / EM6 as per BS EN 50363-2-1. The colour of the sheath shall be Black. |

## DESIGN FEATURES:

| | |
|---|---|
| Temperature Range | -30°C to 60°C / 85°C |
| Voltage Rating | 450/750 Volts |

*Applicable only for Multi-core cables.

**Other sheath color available on request.

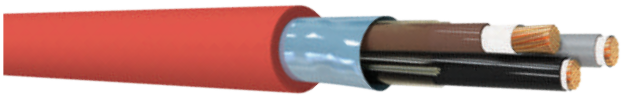
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

## TABLE: IEC 60332-1-2

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (MM2) | INSULATION THICKNESS (MM) | OUTER SHEATH THICKNESS (MM) | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | CURRENT CARRYING CAPACITY MOBIL USE @ 30°C Amp. | CURRENT CARRYING CAPACITY FIXED INSTALLATION @ 85°C Amp. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8185-01C07000-U0BK8-00 | 1C | 70 | 1.6 | 2.6 | 19.4 | 1057 | 185 | 254 |
| 2 | 8185-01C09500-U0BK8-00 | 1C | 95 | 1.8 | 2.8 | 22.1 | 1381 | 222 | 299 |
| 3 | 8185-01C12000-U0BK8-00 | 1C | 120 | 1.8 | 3.0 | 24.4 | 1711 | 260 | 363 |
| 4 | 8185-01C15000-U0BK8-00 | 1C | 150 | 2.0 | 3.2 | 26.6 | 2111 | 300 | 416 |
| 5 | 8185-01C18500-U0BK8-00 | 1C | 185 | 2.2 | 3.4 | 29.7 | 2574 | 341 | 475 |
| 6 | 8185-01C24000-U0BK8-00 | 1C | 240 | 2.4 | 3.5 | 32.6 | 3273 | 407 | 559 |
| 7 | 8185-01C30000-U0BK8-00 | 1C | 300 | 2.6 | 3.6 | 35.6 | 4022 | 468 | 637 |
| 8 | 8185-02C00150-U0BK8-00 | 2C | 1.5 | 0.8 | 1.5 | 9.3 | 130 | 16 | 23 |
| 9 | 8185-02C00250-U0BK8-00 | 2C | 2.5 | 0.9 | 1.7 | 10.6 | 191 | 25 | 32 |
| 10 | 8185-03C00150-U0BK8-00 | 3C | 1.5 | 0.8 | 1.6 | 9.9 | 160 | 16 | 23 |
| 11 | 8185-03C00250-U0BK8-00 | 3C | 2.5 | 0.9 | 1.8 | 11.4 | 232 | 25 | 32 |
| 12 | 8185-03C00400-U0BK8-00 | 3C | 4 | 1.0 | 1.9 | 13.1 | 329 | 35 | 43 |
| 13 | 8185-03C00600-U0BK8-00 | 3C | 6 | 1.0 | 2.1 | 14.6 | 431 | 44 | 56 |
| 14 | 8185-03C01000-U0BK8-00 | 3C | 10 | 1.2 | 3.3 | 20.6 | 761 | 60 | 77 |
| 15 | 8185-03C01600-U0BK8-00 | 3C | 16 | 1.2 | 3.5 | 22.5 | 1064 | 82 | 102 |
| 16 | 8185-03C02500-U0BK8-00 | 3C | 25 | 1.4 | 3.8 | 28.6 | 1575 | 109 | 136 |
| 17 | 8185-03C03500-U0BK8-00 | 3C | 35 | 1.4 | 4.1 | 31.7 | 2073 | 135 | 168 |
| 18 | 8185-04C00150-U0BK8-00 | 4C | 1.5 | 0.8 | 1.7 | 11.0 | 199 | 16 | 21 |
| 19 | 8185-04C00250-U0BK8-00 | 4C | 2.5 | 0.9 | 1.9 | 12.6 | 292 | 20 | 29 |
| 20 | 8185-04C00400-U0BK8-00 | 4C | 4 | 1.0 | 2.0 | 14.5 | 412 | 30 | 38 |
| 21 | 8185-04C00600-U0BK8-00 | 4C | 6 | 1.0 | 2.3 | 16.3 | 547 | 37 | 50 |
| 22 | 8185-04C01000-U0BK8-00 | 4C | 10 | 1.2 | 3.4 | 22.6 | 945 | 52 | 68 |
| 23 | 8185-04C01600-U0BK8-00 | 4C | 16 | 1.2 | 3.6 | 24.7 | 1323 | 69 | 92 |
| 24 | 8185-04C02500-U0BK8-00 | 4C | 25 | 1.4 | 4.1 | 31.8 | 1999 | 92 | 122 |
| 25 | 8185-04C03500-U0BK8-00 | 4C | 35 | 1.4 | 4.4 | 35.2 | 2638 | 114 | 150 |
| 26 | 8185-04C05000-U0BK8-00 | 4C | 50 | 1.6 | 4.8 | 41.1 | 3635 | 143 | 182 |
| 27 | 8185-04C07000-U0BK8-00 | 4C | 70 | 1.6 | 5.2 | 45.0 | 4866 | 178 | 232 |
| 28 | 8185-04C09500-U0BK8-00 | 4C | 95 | 1.8 | 5.9 | 52.0 | 6406 | 210 | 281 |
| 29 | 8185-05C00250-U0BK8-00 | 5C | 2.5 | 0.9 | 2.0 | 13.8 | 355 | 20 | 29 |
| 30 | 8185-05C00400-U0BK8-00 | 5C | 4 | 1.0 | 2.2 | 16.1 | 510 | 30 | 38 |
| 31 | 8185-05C00600-U0BK8-00 | 5C | 6 | 1.0 | 2.5 | 18.1 | 679 | 38 | 50 |
| 32 | 8185-05C01000-U0BK8-00 | 5C | 10 | 1.2 | 3.6 | 24.9 | 1153 | 54 | 68 |
| 33 | 8185-05C01600-U0BK8-00 | 5C | 16 | 1.2 | 3.9 | 27.4 | 1636 | 71 | 92 |
| 34 | 8185-05C02500-U0BK8-00 | 5C | 25 | 1.4 | 4.4 | 35.4 | 2466 | 94 | 122 |

# MESC PYRO FP 200 FIRE ALARM CABLE

CU/MICA+HFFR-XLPE/LSZH



| | |
|---|---|
| APPLICATION | Cable fire resistance (circuit integrity), low smoke, reduced toxic/corrosive gas emission during fire and combustion are critical for use in indoor, outdoor & buildings for fire detection, emergency lightening, fire alarm system circuit and security system. |

## CONSTRUCTION

| | |
|---|---|
| Conductor | Plain annealed copper as per IEC/BSEN 60228. |
| Insulation | Mica impregnated glass tape + HFFR-XLPE Type EI-5 as per BS EN 50363-5 |
| Color Code | 2C: Brown & Blue<br>3C: Brown, Black & Grey<br>4C: Blue, Brown, Black & Grey |
| Assembly* | Cores are assembled in the color sequence as mentioned above and wrapped with polyester binder tape with 20% minimum overlap. |
| Collective screen | Aluminum Mylar tape (AMT) of thickness 25µm is applied with an overlap of 25%. The metallic side of AMT is in contact with annealed tinned copper drain wire of 0.5mm² throughout the longitudinal length. The second layer of glass tape is applied helically with suitable overlap over AMT. |
| Outer Sheath* | Extruded Flame-retardant Low Smoke Zero Halogen compound LTS-1 to BS 7655-6.1 in Red color. |
| Printing on the sheath | MESC PYRO FP 200 NO. OF CORES C X ... MM2 300/500V PH120 BS6387 CWZ IEC 60331 IEC 60332-3 YEAR METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to 90°C |
| Voltage Rating | 300/500 Volts |
| Conductor Resistance Ω/Km at 20°C | IEC/BSEN 60228 |
| Dielectric Strength Test (core to core & core to screen) | 2000 VAC or 5000 VDC for 1 minute |

## FLAME & FIRE CHARACTERISTICS:

| | |
|---|---|
| Flame Retardant | IEC60332-1, IEC60332-3-22 & 24 |
| Fire Resistance | BS6387 Protocol C W Z<br>IEC 60331-21(180)<br>EN 50200 (PH120) |
| Halogen Acid Gas | EN/IEC60754-1 (≤ 0.5%)<br>EN/IEC60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm) |
| Smoke Emission | EN/IEC61034-2 (Light Transmittance ≥ 60%) |

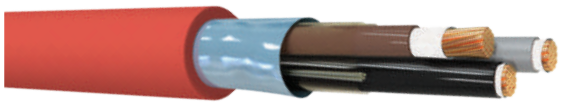


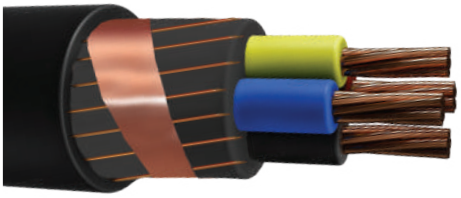
**TABLE:**

| SERIAL NO. | MESC MODEL NO. | NO OF CORES | NOMINAL CROSS SECTION AREA OF CONDUCTOR ($MM^2$) | NO. OF STRANDS | CLASS OF CONDUCTOR | RADIAL THICKNESS OF INSULATION (MM) | NOMINAL THICKNESS OF SHEATH (mm) | APPROX OVER ALL DIAMETER (mm) | OVER ALL DIA TOLERANCE (mm) | APPROX. CABLE WEIGHT (kg/km) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 026Y-02C00100-U0RD8-F1 | 2C | 1.0 | 1 | 1 | 0.6 | 0.9 | 9.5 | ±1.5 | 105 |
| 2 | 021Y-02C00100-U0RD8-FC | 2C | 1.0 | 7 | 2 | 0.6 | 0.9 | 9.8 | ±1.5 | 108 |
| 3 | 026Y-02C00150-U0RD8-F1 | 2C | 1.5 | 1 | 1 | 0.7 | 0.9 | 10.4 | ±1.5 | 125 |
| 4 | 021Y-02C00150-U0RD8-FC | 2C | 1.5 | 7 | 2 | 0.7 | 0.9 | 10.8 | ±1.5 | 130 |
| 5 | 026Y-02C00250-U0RD8-F1 | 2C | 2.5 | 1 | 1 | 0.7 | 1.0 | 11.4 | ±1.5 | 160 |
| 6 | 021Y-02C00250-U0RD8-FC | 2C | 2.5 | 7 | 2 | 0.7 | 1.0 | 11.9 | ±1.5 | 167 |
| 7 | 026Y-02C00400-U0RD8-F1 | 2C | 4 | 1 | 1 | 0.7 | 1.1 | 12.6 | ±2.0 | 208 |
| 8 | 021Y-02C00400-U0RD8-FC | 2C | 4 | 7 | 2 | 0.7 | 1.1 | 13.2 | ±2.0 | 215 |
| 9 | 026Y-03C00150-U0RD8-F1 | 3C | 1.5 | 1 | 1 | 0.7 | 0.9 | 11.0 | ±1.5 | 155 |
| 10 | 021Y-03C00150-U0RD8-FC | 3C | 1.5 | 7 | 2 | 0.7 | 0.9 | 11.4 | ±1.5 | 162 |
| 11 | 026Y-03C00250-U0RD8-F1 | 3C | 2.5 | 1 | 1 | 0.7 | 1.0 | 12.1 | ±1.5 | 203 |
| 12 | 021Y-03C00250-U0RD8-FC | 3C | 2.5 | 7 | 2 | 0.7 | 1.0 | 12.5 | ±1.5 | 205 |
| 13 | 026Y-03C00400-U0RD8-F1 | 3C | 4 | 1 | 1 | 0.7 | 1.1 | 13.3 | ±2.0 | 265 |
| 14 | 021Y-03C00400-U0RD8-FC | 3C | 4 | 7 | 2 | 0.7 | 1.1 | 13.9 | ±2.0 | 275 |
| 15 | 026Y-04C00150-U0RD8-F1 | 4C | 1.5 | 1 | 1 | 0.7 | 1.0 | 12.1 | ±1.5 | 195 |
| 16 | 021Y-04C00150-U0RD8-FC | 4C | 1.5 | 7 | 2 | 0.7 | 1.0 | 12.6 | ±1.5 | 205 |
| 17 | 026Y-04C00250-U0RD8-F1 | 4C | 2.5 | 1 | 1 | 0.7 | 1.1 | 13.3 | ±2.0 | 255 |
| 18 | 021Y-04C00250-U0RD8-FC | 4C | 2.5 | 7 | 2 | 0.7 | 1.1 | 13.8 | ±2.0 | 260 |
| 19 | 026Y-04C00400-U0RD8-F1 | 4C | 4 | 1 | 1 | 0.7 | 1.2 | 14.6 | ±2.0 | 335 |
| 20 | 021Y-04C00400-U0RD8-FC | 4C | 4 | 7 | 2 | 0.7 | 1.2 | 15.4 | ±2.0 | 350 |

* Outer sheath color:-White and others color are available on request.

# LV POWER & CONTROL MULTI CORE SCREENED CABLE

## N2XCY – CU/XLPE / PVC / COPPER WIRE & COPPER TAPE SCREEN/PVC
## SPECIFICATION: IEC 60502-1



| | |
|---|---|
| APPLICATION | Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building. |

## CONSTRUCTION

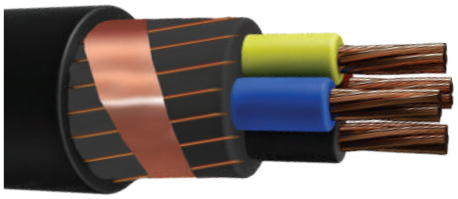
| | |
|---|---|
| Conductor | Stranded annealed plain Copper Class 2 to IEC 60228. |
| Insulation | Cross linked polyethylene (XLPE) to IEC 60502-1. |
| Color Code* | 2C: Red & Black<br>3C: Red, Yellow & Blue<br>4C: Red, Yellow, Blue & Black<br>5C: Red, Yellow, Blue, Black & Green / Yellow |
| Cabling | Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape. |
| Inner Sheath | Extruded PVC compatible with the operating temperature of the conductor in Black color. |
| Screening | Copper wires laid over the inner sheath with a transverse helix of copper tape. The screen area equivalent to conductor cross section area. |
| Outer Sheath** | Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black. |
| Marking on the bsheath | Example - ELECTRIC CABLE (N2XCY) CU/XLPE/PVC SHIELDED NO OF CORES C X SQMM 600/1000V MESC YEAR IEC 60502-1 LENGTH METER MARKING |

## TECHNICAL DATA:

| | |
|---|---|
| Operating Temperature | -15°C to +90°C |
| Voltage Rating | 600/1000 Volts |
| Voltage Withstand (V/Minute) | 3500 V RMS / 5 or 8400 VDC / 5 |

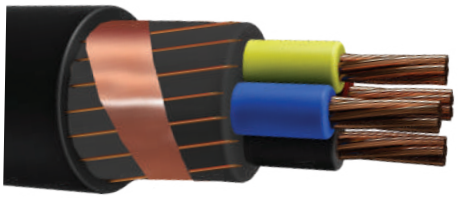
*Other Insulation color available on request.
**Other sheath color available on request.
Flame Retardant Property of cable will be as per requirement.
Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.
Cables with Two/Three/Four and half core is available on request.
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 1 | 7914-02C00150-U0BK8-00* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 1.8 | 1.24 | 12.6 | 197 | 43 |
| 2 | 7914-02C00250-U0BK8-00* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 1.8 | 1.24 | 13.7 | 240 | 47 |
| 3 | 7914-02C00400-U0BK8-00* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 1.8 | 1.24 | 14.9 | 300 | 52 |
| 4 | 7914-02C00600-U0BK8-00* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 1.8 | 1.24 | 16.3 | 375 | 57 |
| 5 | 7914-02C01000-U0BK8-00* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 1.8 | 1.24 | 18.5 | 520 | 66 |
| 6 | 79D4-02C01600-U0BK8-00 | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 1.8 | 1.24 | 20.3 | 700 | 73 |
| 7 | 79D4-02C02500-U0BK8-00 | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 1.8 | 1.24 | 23.7 | 995 | 87 |
| 8 | 79D4-02C03500-U0BK8-00 | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.8 | 1.24 | 26.2 | 1310 | 97 |
| 9 | 79D4-02C05000-U0BK8-00 | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.8 | 1.24 | 29.6 | 1720 | 110 |
| 10 | 79D4-02C07000-U0BK8-00 | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 1.9 | 1.32 | 33.6 | 2345 | 132 |
| 11 | 79D4-02C09500-U0BK8-00 | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 1.40 | 37.8 | 3110 | 157 |
| 12 | 79D4-02C12000-U0BK8-00 | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.2 | 1.56 | 41.8 | 3900 | 192 |
| 13 | 79D4-02C15000-U0BK8-00 | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 2.3 | 1.64 | 45.8 | 4750 | 220 |
| 14 | 79D4-02C18500-U0BK8-00 | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 2.5 | 1.80 | 50.9 | 5860 | 266 |
| 15 | 79D4-02C24000-U0BK8-00 | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 2.7 | 1.96 | 56.5 | 7545 | 319 |
| 16 | 79D4-02C30000-U0BK8-00 | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 2.9 | 2.12 | 62.1 | 9425 | 377 |
| 17 | 7914-03C00150-U0BK8-00* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 1.8 | 1.24 | 13.1 | 225 | 45 |
| 18 | 7914-03C00250-U0BK8-00* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 1.8 | 1.24 | 14.2 | 275 | 49 |
| 19 | 7914-03C00400-U0BK8-00* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 1.8 | 1.24 | 15.5 | 350 | 54 |
| 20 | 7914-03C00600-U0BK8-00* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 1.8 | 1.24 | 17.0 | 448 | 60 |
| 21 | 7914-03C01000-U0BK8-00* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 1.8 | 1.24 | 19.3 | 635 | 69 |
| 22 | 79D4-03C01600-U0BK8-00 | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 1.8 | 1.24 | 21.2 | 870 | 77 |
| 23 | 79D4-03C02500-U0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.8 | 1.24 | 24.9 | 1250 | 91 |
| 24 | 79D4-03C03500-U0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.8 | 1.24 | 27.5 | 1655 | 102 |
| 25 | 7914-04C00150-U0BK8-00* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 1.8 | 1.24 | 13.8 | 250 | 47 |
| 26 | 7914-04C00250-U0BK8-00* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 1.8 | 1.24 | 15.0 | 318 | 52 |

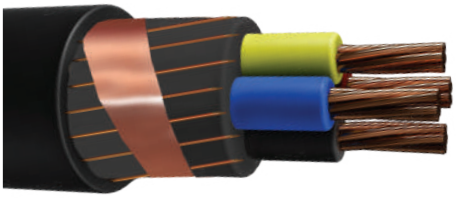
**TABLE: IEC 60332-3-24 (CAT C)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 27 | 7914-04C00400-U0BK8-00* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 1.8 | 1.24 | 16.5 | 408 | 58 |
| 28 | 7914-04C00600-U0BK8-00* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 1.8 | 1.24 | 18.1 | 530 | 64 |
| 29 | 7914-04C01000-U0BK8-00* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 1.8 | 1.24 | 20.7 | 768 | 75 |
| 30 | 79D4-04C01600-U0BK8-00 | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 1.8 | 1.24 | 22.6 | 1040 | 82 |
| 31 | 7914-05C00150-U0BK8-00-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 1.8 | 1.24 | 14.6 | 283 | 51 |
| 32 | 7914-05C00250-U0BK8-00-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 1.8 | 1.24 | 15.9 | 358 | 56 |
| 33 | 7614-05C00400-W0BK8-00-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 1.8 | 1.24 | 17.5 | 467 | 62 |
| 34 | 7914-05C00600-U0BK8-00-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 1.8 | 1.24 | 19.3 | 610 | 69 |
| 35 | 7914-05C01000-U0BK8-00-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 1.8 | 1.24 | 22.1 | 890 | 80 |
| 36 | 79D4-05C01600-U0BK8-00-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.8 | 1.24 | 24.3 | 1219 | 89 |
| 37 | 79D4-05C02500-U0BK8-00-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.8 | 1.24 | 28.8 | 1787 | 107 |
| 38 | 79D4-05C03500-U0BK8-00-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.9 | 1.32 | 32.2 | 2396 | 127 |
| 39 | 79D4-05C05000-U0BK8-00-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 1.40 | 37.2 | 3225 | 155 |
| 40 | 79D4-05C07000-U0BK8-00-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.2 | 1.56 | 42.6 | 4480 | 195 |
| 41 | 79D4-05C09500-U0BK8-00-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 2.4 | 1.72 | 47.9 | 5950 | 240 |
| 42 | 79D4-05C12000-U0BK8-00-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 2.5 | 1.80 | 52.7 | 7445 | 276 |

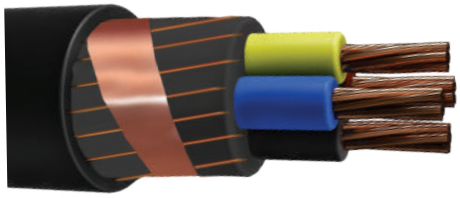
*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 1 | 7914-02C00150-U0BK8-0A* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 1.8 | 1.24 | 12.6 | 197 | 43 |
| 2 | 7914-02C00250-U0BK8-0A* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 1.8 | 1.24 | 13.7 | 240 | 47 |
| 3 | 7914-02C00400-U0BK8-0A* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 1.8 | 1.24 | 14.9 | 300 | 52 |
| 4 | 7914-02C00600-U0BK8-0A* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 1.8 | 1.24 | 16.3 | 375 | 57 |
| 5 | 7914-02C01000-U0BK8-0A* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 1.8 | 1.24 | 18.5 | 520 | 66 |
| 6 | 79D4-02C01600-U0BK8-0A | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 1.8 | 1.24 | 20.3 | 700 | 73 |
| 7 | 79D4-02C02500-U0BK8-0A | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 1.8 | 1.24 | 23.7 | 995 | 87 |
| 8 | 79D4-02C03500-U0BK8-0A | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.8 | 1.24 | 26.2 | 1310 | 97 |
| 9 | 79D4-02C05000-U0BK8-0A | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.8 | 1.24 | 29.6 | 1720 | 110 |
| 10 | 79D4-02C07000-U0BK8-0A | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 1.9 | 1.32 | 33.6 | 2345 | 132 |
| 11 | 79D4-02C09500-U0BK8-0A | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 1.40 | 37.8 | 3110 | 157 |
| 12 | 79D4-02C12000-U0BK8-0A | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.2 | 1.56 | 41.8 | 3900 | 192 |
| 13 | 79D4-02C15000-U0BK8-0A | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 2.3 | 1.64 | 45.8 | 4750 | 220 |
| 14 | 79D4-02C18500-U0BK8-0A | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 2.5 | 1.80 | 50.9 | 5860 | 266 |
| 15 | 79D4-02C24000-U0BK8-0A | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 2.7 | 1.96 | 56.5 | 7545 | 319 |
| 16 | 79D4-02C30000-U0BK8-0A | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 2.9 | 2.12 | 62.1 | 9425 | 377 |
| 17 | 7914-03C00150-U0BK8-0A* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 1.8 | 1.24 | 13.1 | 225 | 45 |
| 18 | 7914-03C00250-U0BK8-0A* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 1.8 | 1.24 | 14.2 | 275 | 49 |
| 19 | 7914-03C00400-U0BK8-0A* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 1.8 | 1.24 | 15.5 | 350 | 54 |
| 20 | 7914-03C00600-U0BK8-0A* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 1.8 | 1.24 | 17.0 | 448 | 60 |

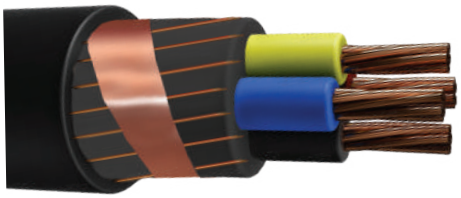
**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 21 | 7914-03C01000-U0BK8-0A* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 1.8 | 1.24 | 19.3 | 635 | 69 |
| 22 | 79D4-03C01600-U0BK8-0A | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 1.8 | 1.24 | 21.2 | 870 | 77 |
| 23 | 79D4-03C02500-U0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.8 | 1.24 | 24.9 | 1250 | 91 |
| 24 | 79D4-03C03500-U0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.8 | 1.24 | 27.5 | 1655 | 102 |
| 25 | 7914-04C00150-U0BK8-0A* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 1.8 | 1.24 | 13.8 | 250 | 47 |
| 26 | 7914-04C00250-U0BK8-0A* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 1.8 | 1.24 | 15.0 | 318 | 52 |
| 27 | 7914-04C00400-U0BK8-0A* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 1.8 | 1.24 | 16.5 | 408 | 58 |
| 28 | 7914-04C00600-U0BK8-0A* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 1.8 | 1.24 | 18.1 | 530 | 64 |
| 29 | 7914-04C01000-U0BK8-0A* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 1.8 | 1.24 | 20.7 | 768 | 75 |
| 30 | 79D4-04C01600-U0BK8-0A | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 1.8 | 1.24 | 22.6 | 1040 | 82 |
| 31 | 7914-05C00150-U0BK8-0A-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 1.8 | 1.24 | 14.6 | 283 | 51 |
| 32 | 7914-05C00250-U0BK8-0A-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 1.8 | 1.24 | 15.9 | 358 | 56 |
| 33 | 7914-05C00400-U0BK8-0A-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 1.8 | 1.24 | 17.5 | 467 | 62 |
| 34 | 7914-05C00600-U0BK8-0A-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 1.8 | 1.24 | 19.3 | 610 | 69 |
| 35 | 7914-05C01000-U0BK8-0A-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 1.8 | 1.24 | 22.1 | 890 | 80 |
| 36 | 79D4-05C01600-U0BK8-0A-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.8 | 1.24 | 24.3 | 1219 | 89 |
| 37 | 79D4-05C02500-U0BK8-0A-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.8 | 1.24 | 28.8 | 1787 | 107 |
| 38 | 79D4-05C03500-U0BK8-0A-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.9 | 1.32 | 32.2 | 2396 | 127 |
| 39 | 79D4-05C05000-U0BK8-0A-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 1.40 | 37.2 | 3225 | 155 |
| 40 | 79D4-05C07000-U0BK8-0A-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.2 | 1.56 | 42.6 | 4480 | 195 |
| 41 | 79D4-05C09500-U0BK8-0A-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 2.4 | 1.72 | 47.9 | 5950 | 240 |
| 42 | 79D4-05C12000-U0BK8-0A-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 2.5 | 1.80 | 52.7 | 7445 | 276 |

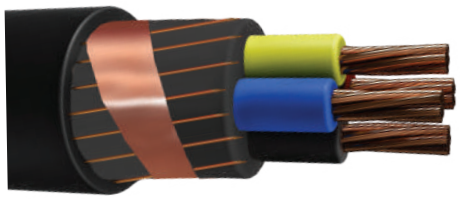
*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 1 | 7914-02C00150-U0BK8-NI* | 2C | 1.5 | 7 | 0.7 | 1.0 | 8.4 | 1.8 | 1.24 | 12.6 | 197 | 43 |
| 2 | 7914-02C00250-U0BK8-NI* | 2C | 2.5 | 7 | 0.7 | 1.0 | 9.2 | 1.8 | 1.24 | 13.7 | 240 | 47 |
| 3 | 7914-02C00400-U0BK8-NI* | 2C | 4 | 7 | 0.7 | 1.0 | 10.2 | 1.8 | 1.24 | 14.9 | 300 | 52 |
| 4 | 7914-02C00600-U0BK8-NI* | 2C | 6 | 7 | 0.7 | 1.0 | 11.4 | 1.8 | 1.24 | 16.3 | 375 | 57 |
| 5 | 7914-02C01000-U0BK8-NI* | 2C | 10 | 7 | 0.7 | 1.0 | 13.3 | 1.8 | 1.24 | 18.5 | 520 | 66 |
| 6 | 79D4-02C01600-U0BK8-NI | 2C | 16 | 7 | 0.7 | 1.0 | 14.6 | 1.8 | 1.24 | 20.3 | 700 | 73 |
| 7 | 79D4-02C02500-U0BK8-NI | 2C | 25 | 7 | 0.9 | 1.0 | 17.8 | 1.8 | 1.24 | 23.7 | 995 | 87 |
| 8 | 79D4-02C03500-U0BK8-NI | 2C | 35 | 7 | 0.9 | 1.0 | 20.0 | 1.8 | 1.24 | 26.2 | 1310 | 97 |
| 9 | 79D4-02C05000-U0BK8-NI | 2C | 50 | 19 | 1.0 | 1.0 | 23.1 | 1.8 | 1.24 | 29.6 | 1720 | 110 |
| 10 | 79D4-02C07000-U0BK8-NI | 2C | 70 | 19 | 1.1 | 1.0 | 26.5 | 1.9 | 1.32 | 33.6 | 2345 | 132 |
| 11 | 79D4-02C09500-U0BK8-NI | 2C | 95 | 19 | 1.1 | 1.2 | 30.2 | 2.0 | 1.40 | 37.8 | 3110 | 157 |
| 12 | 79D4-02C12000-U0BK8-NI | 2C | 120 | 19 | 1.2 | 1.2 | 33.5 | 2.2 | 1.56 | 41.8 | 3900 | 192 |
| 13 | 79D4-02C15000-U0BK8-NI | 2C | 150 | 19 | 1.4 | 1.2 | 37.3 | 2.3 | 1.64 | 45.8 | 4750 | 220 |
| 14 | 79D4-02C18500-U0BK8-NI | 2C | 185 | 37 | 1.6 | 1.4 | 41.7 | 2.5 | 1.80 | 50.9 | 5860 | 266 |
| 15 | 79D4-02C24000-U0BK8-NI | 2C | 240 | 37 | 1.7 | 1.4 | 46.6 | 2.7 | 1.96 | 56.5 | 7545 | 319 |
| 16 | 79D4-02C30000-U0BK8-NI | 2C | 300 | 37 | 1.8 | 1.6 | 51.7 | 2.9 | 2.12 | 62.1 | 9425 | 377 |
| 17 | 7914-03C00150-U0BK8-NI* | 3C | 1.5 | 7 | 0.7 | 1.0 | 8.9 | 1.8 | 1.24 | 13.1 | 225 | 45 |
| 18 | 7914-03C00250-U0BK8-NI* | 3C | 2.5 | 7 | 0.7 | 1.0 | 9.8 | 1.8 | 1.24 | 14.2 | 275 | 49 |
| 19 | 7914-03C00400-U0BK8-NI* | 3C | 4 | 7 | 0.7 | 1.0 | 10.9 | 1.8 | 1.24 | 15.5 | 350 | 54 |
| 20 | 7914-03C00600-U0BK8-NI* | 3C | 6 | 7 | 0.7 | 1.0 | 12.2 | 1.8 | 1.24 | 17.0 | 448 | 60 |
| 21 | 7914-03C01000-U0BK8-NI* | 3C | 10 | 7 | 0.7 | 1.0 | 14.2 | 1.8 | 1.24 | 19.3 | 635 | 69 |
| 22 | 79D4-03C01600-U0BK8-NI | 3C | 16 | 7 | 0.7 | 1.0 | 15.6 | 1.8 | 1.24 | 21.2 | 870 | 77 |
| 23 | 79D4-03C02500-U0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 19.0 | 1.8 | 1.24 | 24.9 | 1250 | 91 |
| 24 | 79D4-03C03500-U0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 21.4 | 1.8 | 1.24 | 27.5 | 1655 | 102 |
| 24 | 7914-04C00150-U0BK8-NI* | 4C | 1.5 | 7 | 0.7 | 1.0 | 9.6 | 1.8 | 1.24 | 13.8 | 250 | 47 |
| 26 | 7914-04C00250-U0BK8-NI* | 4C | 2.5 | 7 | 0.7 | 1.0 | 10.7 | 1.8 | 1.24 | 15.0 | 318 | 52 |
| 27 | 7914-04C00400-U0BK8-NI* | 4C | 4 | 7 | 0.7 | 1.0 | 11.9 | 1.8 | 1.24 | 16.5 | 408 | 58 |
| 28 | 7914-04C00600-U0BK8-NI* | 4C | 6 | 7 | 0.7 | 1.0 | 13.3 | 1.8 | 1.24 | 18.1 | 530 | 64 |
| 29 | 7914-04C01000-U0BK8-NI* | 4C | 10 | 7 | 0.7 | 1.0 | 15.6 | 1.8 | 1.24 | 20.7 | 768 | 75 |
| 30 | 79D4-04C01600-U0BK8-NI | 4C | 16 | 7 | 0.7 | 1.0 | 17.2 | 1.8 | 1.24 | 22.6 | 1040 | 82 |

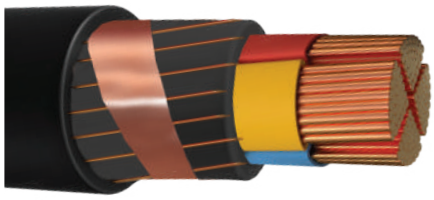
**TABLE: IEC 60332-1-2**
CIRCULAR CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 31 | 7914-05C00150-U0BK8-NI-02* | 5C | 1.5 | 7 | 0.7 | 1.0 | 10.5 | 1.8 | 1.24 | 14.6 | 283 | 51 |
| 32 | 7914-05C00250-U0BK8-NI-02* | 5C | 2.5 | 7 | 0.7 | 1.0 | 11.6 | 1.8 | 1.24 | 15.9 | 358 | 56 |
| 33 | 7914-05C00400-U0BK8-NI-02* | 5C | 4 | 7 | 0.7 | 1.0 | 13.0 | 1.8 | 1.24 | 17.5 | 467 | 62 |
| 34 | 7914-05C00600-U0BK8-NI-02* | 5C | 6 | 7 | 0.7 | 1.0 | 14.6 | 1.8 | 1.24 | 19.3 | 610 | 69 |
| 35 | 7914-05C01000-U0BK8-NI-02* | 5C | 10 | 7 | 0.7 | 1.0 | 17.1 | 1.8 | 1.24 | 22.1 | 890 | 80 |
| 36 | 79D4-05C01600-U0BK8-NI-02 | 5C | 16 | 7 | 0.7 | 1.0 | 18.9 | 1.8 | 1.24 | 24.3 | 1219 | 89 |
| 37 | 79D4-05C02500-U0BK8-NI-02 | 5C | 25 | 7 | 0.9 | 1.0 | 23.2 | 1.8 | 1.24 | 28.8 | 1787 | 107 |
| 38 | 79D4-05C03500-U0BK8-NI-02 | 5C | 35 | 7 | 0.9 | 1.0 | 26.1 | 1.9 | 1.32 | 32.2 | 2396 | 127 |
| 39 | 79D4-05C05000-U0BK8-NI-02 | 5C | 50 | 19 | 1.0 | 1.2 | 30.7 | 2.0 | 1.40 | 37.2 | 3225 | 155 |
| 40 | 79D4-05C07000-U0BK8-NI-02 | 5C | 70 | 19 | 1.1 | 1.2 | 35.4 | 2.2 | 1.56 | 42.6 | 4480 | 195 |
| 41 | 79D4-05C09500-U0BK8-NI-02 | 5C | 95 | 19 | 1.1 | 1.4 | 40.2 | 2.4 | 1.72 | 47.9 | 5950 | 240 |
| 42 | 79D4-05C12000-U0BK8-NI-02 | 5C | 120 | 19 | 1.2 | 1.4 | 44.6 | 2.5 | 1.80 | 52.7 | 7445 | 276 |

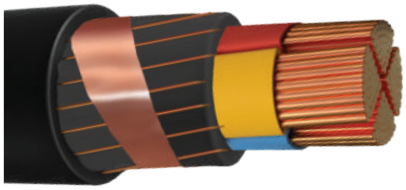
*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-24 (CAT C)**
SECTOR SHAPED CONDUCTOR:



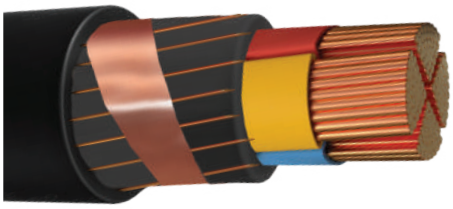
| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 1 | 79F4-03C02500-U0BK8-00 | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.8 | 1.24 | 22.5 | 1209 | 82 |
| 2 | 79F4-03C03500-U0BK8-00 | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.8 | 1.24 | 24.7 | 1595 | 91 |
| 3 | 79F4-03C05000-U0BK8-00 | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.8 | 1.24 | 27.9 | 2145 | 103 |
| 4 | 79F4-03C07000-U0BK8-00 | 3C | 70 | 19 | 1.1 | 1.2 | 25.1 | 2.0 | 1.40 | 32.1 | 2995 | 132 |
| 5 | 79F4-03C09500-U0BK8-00 | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.1 | 1.48 | 35.6 | 3945 | 155 |
| 6 | 79F4-03C12000-U0BK8-00 | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.2 | 1.56 | 39.0 | 4958 | 178 |
| 7 | 79F4-03C15000-U0BK8-00 | 3C | 150 | 19 | 1.4 | 1.4 | 35.1 | 2.4 | 1.72 | 43.3 | 6150 | 216 |
| 8 | 79F4-03C18500-U0BK8-00 | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.6 | 1.88 | 47.6 | 7523 | 257 |
| 9 | 79F4-03C24000-U0BK8-00 | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 2.8 | 2.04 | 52.9 | 9770 | 308 |
| 10 | 79F4-03C30000-U0BK8-00 | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 3.0 | 2.20 | 57.8 | 12230 | 361 |
| 11 | 79F4-04C02500-U0BK8-00 | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.8 | 1.24 | 25.3 | 1490 | 93 |
| 12 | 79F4-04C03500-U0BK8-00 | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.8 | 1.24 | 27.9 | 1979 | 103 |
| 13 | 79F4-04C05000-U0BK8-00 | 4C | 50 | 19 | 1.0 | 1.0 | 25.0 | 1.9 | 1.32 | 31.9 | 2680 | 125 |
| 14 | 79F4-04C07000-U0BK8-00 | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.1 | 1.48 | 36.8 | 3755 | 160 |
| 15 | 79F4-04C09500-U0BK8-00 | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.2 | 1.56 | 40.9 | 4925 | 187 |
| 16 | 79F4-04C12000-U0BK8-00 | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.4 | 1.72 | 45.3 | 6210 | 226 |
| 17 | 79F4-04C15000-U0BK8-00 | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.6 | 1.88 | 50.2 | 7663 | 272 |
| 18 | 79F4-04C18500-U0BK8-00 | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.7 | 1.96 | 55.0 | 9365 | 310 |
| 19 | 79F4-04C24000-U0BK8-00 | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 3.0 | 2.20 | 61.5 | 12195 | 386 |
| 20 | 79F4-04C30000-U0BK8-00 | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 3.2 | 2.36 | 67.4 | 15275 | 452 |

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 1 | 79F4-03C02500-U0BK8-0A | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.8 | 1.24 | 22.5 | 1209 | 82 |
| 2 | 79F4-03C03500-U0BK8-0A | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.8 | 1.24 | 24.7 | 1595 | 91 |
| 3 | 79F4-03C05000-U0BK8-0A | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.8 | 1.24 | 27.9 | 2145 | 103 |
| 4 | 79F4-03C07000-U0BK8-0A | 3C | 70 | 19 | 1.1 | 1.2 | 25.1 | 2.0 | 1.40 | 32.1 | 2995 | 132 |
| 5 | 79F4-03C09500-U0BK8-0A | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.1 | 1.48 | 35.6 | 3945 | 155 |
| 6 | 79F4-03C12000-U0BK8-0A | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.2 | 1.56 | 39.0 | 4958 | 178 |
| 7 | 79F4-03C15000-U0BK8-0A | 3C | 150 | 19 | 1.4 | 1.4 | 35.1 | 2.4 | 1.72 | 43.3 | 6150 | 216 |
| 8 | 79F4-03C18500-U0BK8-0A | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.6 | 1.88 | 47.6 | 7523 | 257 |
| 9 | 79F4-03C24000-U0BK8-0A | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 2.8 | 2.04 | 52.9 | 9770 | 308 |
| 10 | 79F4-03C30000-U0BK8-0A | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 3.0 | 2.20 | 57.8 | 12230 | 361 |
| 11 | 79F4-04C02500-U0BK8-0A | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.8 | 1.24 | 25.3 | 1490 | 93 |
| 12 | 79F4-04C03500-U0BK8-0A | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.8 | 1.24 | 27.9 | 1979 | 103 |
| 13 | 79F4-04C05000-U0BK8-0A | 4C | 50 | 19 | 1.0 | 1.0 | 25.0 | 1.9 | 1.32 | 31.9 | 2680 | 125 |
| 14 | 79F4-04C07000-U0BK8-0A | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.1 | 1.48 | 36.8 | 3755 | 160 |
| 15 | 79F4-04C09500-U0BK8-0A | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.2 | 1.56 | 40.9 | 4925 | 187 |
| 16 | 79F4-04C12000-U0BK8-0A | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.4 | 1.72 | 45.3 | 6210 | 226 |
| 17 | 79F4-04C15000-U0BK8-0A | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.6 | 1.88 | 50.2 | 7663 | 272 |
| 18 | 79F4-04C18500-U0BK8-0A | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.7 | 1.96 | 55.0 | 9365 | 310 |
| 19 | 79F4-04C24000-U0BK8-0A | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 3.0 | 2.20 | 61.5 | 12195 | 386 |
| 20 | 79F4-04C30000-U0BK8-0A | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 3.2 | 2.36 | 67.4 | 15275 | 452 |

**TABLE: IEC 60332-1-2**
SECTOR SHAPED CONDUCTOR:



| SERIAL NO. | MESC MODEL NO. | NO OF CORES | SIZE (mm2) | NO. OF STRANDS | INSULATION THICKNESS (mm) | INNER SHEATH THICKNESS (MM) | APPROX. DIA. OVER INNER SHEATH (MM) | OUTER SHEATH THICKNESS (mm) | | APPROX. OVERALL DIA. (mm) | APPROX. CABLE WEIGHT (kg/km) | MAX. PULLING TENSION USING A CABLE GRIP (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Nom | Min | | | |
| 1 | 79F4-03C02500-U0BK8-NI | 3C | 25 | 7 | 0.9 | 1.0 | 16.5 | 1.8 | 1.24 | 22.5 | 1209 | 82 |
| 2 | 79F4-03C03500-U0BK8-NI | 3C | 35 | 7 | 0.9 | 1.0 | 18.4 | 1.8 | 1.24 | 24.7 | 1595 | 91 |
| 3 | 79F4-03C05000-U0BK8-NI | 3C | 50 | 19 | 1.0 | 1.0 | 21.2 | 1.8 | 1.24 | 27.9 | 2145 | 103 |
| 4 | 79F4-03C07000-U0BK8-NI | 3C | 70 | 19 | 1.1 | 1.2 | 25.1 | 2.0 | 1.40 | 32.1 | 2995 | 132 |
| 5 | 79F4-03C09500-U0BK8-NI | 3C | 95 | 19 | 1.1 | 1.2 | 27.6 | 2.1 | 1.48 | 35.6 | 3945 | 155 |
| 6 | 79F4-03C12000-U0BK8-NI | 3C | 120 | 19 | 1.2 | 1.2 | 30.5 | 2.2 | 1.56 | 39.0 | 4958 | 178 |
| 7 | 79F4-03C15000-U0BK8-NI | 3C | 150 | 19 | 1.4 | 1.4 | 35.1 | 2.4 | 1.72 | 43.3 | 6150 | 216 |
| 8 | 79F4-03C18500-U0BK8-NI | 3C | 185 | 37 | 1.6 | 1.4 | 38.0 | 2.6 | 1.88 | 47.6 | 7523 | 257 |
| 9 | 79F4-03C24000-U0BK8-NI | 3C | 240 | 37 | 1.7 | 1.6 | 42.7 | 2.8 | 2.04 | 52.9 | 9770 | 308 |
| 10 | 79F4-03C30000-U0BK8-NI | 3C | 300 | 37 | 1.8 | 1.6 | 46.9 | 3.0 | 2.20 | 57.8 | 12230 | 361 |
| 11 | 79F4-04C02500-U0BK8-NI | 4C | 25 | 7 | 0.9 | 1.0 | 19.4 | 1.8 | 1.24 | 25.3 | 1490 | 93 |
| 12 | 79F4-04C03500-U0BK8-NI | 4C | 35 | 7 | 0.9 | 1.0 | 21.8 | 1.8 | 1.24 | 27.9 | 1979 | 103 |
| 13 | 79F4-04C05000-U0BK8-NI | 4C | 50 | 19 | 1.0 | 1.0 | 25.0 | 1.9 | 1.32 | 31.9 | 2680 | 125 |
| 14 | 79F4-04C07000-U0BK8-NI | 4C | 70 | 19 | 1.1 | 1.2 | 29.5 | 2.1 | 1.48 | 36.8 | 3755 | 160 |
| 15 | 79F4-04C09500-U0BK8-NI | 4C | 95 | 19 | 1.1 | 1.2 | 33.0 | 2.2 | 1.56 | 40.9 | 4925 | 187 |
| 16 | 79F4-04C12000-U0BK8-NI | 4C | 120 | 19 | 1.2 | 1.4 | 37.0 | 2.4 | 1.72 | 45.3 | 6210 | 226 |
| 17 | 79F4-04C15000-U0BK8-NI | 4C | 150 | 19 | 1.4 | 1.4 | 41.3 | 2.6 | 1.88 | 50.2 | 7663 | 272 |
| 18 | 79F4-04C18500-U0BK8-NI | 4C | 185 | 37 | 1.6 | 1.4 | 45.7 | 2.7 | 1.96 | 55.0 | 9365 | 310 |
| 19 | 79F4-04C24000-U0BK8-NI | 4C | 240 | 37 | 1.7 | 1.6 | 51.4 | 3.0 | 2.20 | 61.5 | 12195 | 386 |
| 20 | 79F4-04C30000-U0BK8-NI | 4C | 300 | 37 | 1.8 | 1.6 | 56.6 | 3.2 | 2.36 | 67.4 | 15275 | 452 |

# TECHNICAL INFORMATION

**0.6/1 KV CABLES**

**ELECTRICAL PARAMETER**

(COPPER CONDUCTOR)

| NOMINAL CROSS SECTION ($MM^2$) | DC RESISTANCE 20° C | DC RESISTANCE 90° C | AC RESISTANCE 90° C | IMPEDANCE (Z) | INDUCTIVE REACTANCE (X) |
|---|---|---|---|---|---|
| | OHM/KM | OHM/KM | OHM/KM | OHM/KM | OHM/KM |
| 1.5 | 12.1 | 15.43 | 15.43 | 15.43 | 0.106 |
| 2.5 | 7.41 | 9.45 | 9.45 | 9.45 | 0.099 |
| 4 | 4.61 | 5.88 | 5.88 | 5.88 | 0.093 |
| 6 | 3.08 | 3.93 | 3.93 | 3.93 | 0.088 |
| 10 | 1.83 | 2.33 | 2.33 | 2.33 | 0.084 |
| 16 | 1.15 | 1.47 | 1.47 | 1.47 | 0.080 |
| 25 | 0.727 | 0.927 | 0.927 | 0.93 | 0.080 |
| 35 | 0.524 | 0.668 | 0.668 | 0.67 | 0.078 |
| 50 | 0.387 | 0.493 | 0.493 | 0.50 | 0.074 |
| 70 | 0.268 | 0.342 | 0.342 | 0.35 | 0.073 |
| 95 | 0.193 | 0.246 | 0.247 | 0.26 | 0.072 |
| 120 | 0.153 | 0.195 | 0.197 | 0.21 | 0.071 |
| 150 | 0.124 | 0.158 | 0.160 | 0.17 | 0.071 |
| 185 | 0.0991 | 0.126 | 0.128 | 0.14 | 0.071 |
| 240 | 0.0754 | 0.096 | 0.0989 | 0.12 | 0.070 |
| 300 | 0.0601 | 0.077 | 0.0802 | 0.10 | 0.070 |
| 400 | 0.0470 | 0.060 | 0.0645 | 0.09 | 0.069 |
| 500 | 0.0366 | 0.0467 | 0.0525 | 0.08 | 0.069 |
| 630 | 0.0283 | 0.0361 | 0.0428 | 0.08 | 0.068 |
| 800 | 0.0221 | 0.0282 | 0.0288 | 0.07 | 0.068 |
| 1000 | 0.0176 | 0.0224 | 0.0230 | 0.07 | 0.068 |

# TECHNICAL INFORMATION

## 0.6/1 KV CABLE

VOLTAGE DROP (V/A/km)

| Nominal Cross Section Area (mm2) | XLPE INSULATED CABLES | | | PVC INSULATED CABLES | | |
|---|---|---|---|---|---|---|
| | Voltage Drop 3 Phase (3Single Core) | Voltage Drop 1 Phase (2 Core Cables) | Voltage Drop 3 Phase (3&4 Core Cables) | Voltage Drop 3 Phase (3Single Core) | Voltage Drop 1 Phase (2 Core Cable) | Voltage Drop 3 Phase (3&4 Core Cables) |
| 1.5 | 26.72 | 30.86 | 26.73 | 25.39 | 29.01 | 25.39 |
| 2.5 | 16.37 | 18.90 | 16.39 | 15.55 | 17.77 | 15.58 |
| 4 | 10.18 | 11.76 | 9.73 | 9.67 | 11.05 | 9.71 |
| 6 | 6.81 | 7.86 | 6.52 | 6.47 | 7.39 | 6.51 |
| 10 | 4.04 | 4.67 | 3.89 | 3.84 | 4.39 | 3.89 |
| 16 | 2.54 | 2.94 | 2.46 | 2.42 | 2.76 | 2.46 |
| 25 | 1.61 | 1.86 | 1.58 | 1.53 | 1.75 | 1.58 |
| 35 | 1.17 | 1.35 | 1.15 | 1.11 | 1.27 | 1.15 |
| 50 | 0.86 | 1.00 | 0.86 | 0.82 | 0.94 | 0.81 |
| 70 | 0.61 | 0.70 | 0.61 | 0.58 | 0.66 | 0.58 |
| 95 | 0.44 | 0.51 | 0.45 | 0.42 | 0.48 | 0.43 |
| 120 | 0.37 | 0.42 | 0.37 | 0.34 | 0.39 | 0.35 |
| 150 | 0.32 | 0.35 | 0.31 | 0.31 | 0.33 | 0.29 |
| 185 | 0.27 | 0.29 | 0.25 | 0.26 | 0.27 | 0.24 |
| 240 | 0.22 | 0.24 | 0.20 | 0.22 | 0.23 | 0.20 |
| 300 | 0.21 | 0.21 | 0.17 | 0.20 | 0.20 | 0.18 |
| 400 | 0.19 | 0.18 | 0.16 | 0.18 | 0.18 | 0.16 |
| 500 | 0.17 | - | - | 0.17 | - | - |
| 630 | 0.16 | - | - | 0.16 | - | - |
| 800 | 0.16 | - | - | 0.16 | - | - |
| 1000 | 0.15 | - | - | 0.15 | - | - |

# TECHNICAL INFORMATION

## 0.6/1 KV CABLES

SHORT CIRCUIT CURRENT (KA)

**A. Permissible short circuit currents for copper conductors with XLPE insulation**

| AREA (mm2) | TRIPPING TIMES (SECONDS) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 | 2 | 3 | 4 | 5 |
| 1.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 2.5 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 |
| 4 | 1.3 | 1.0 | 0.9 | 0.8 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.4 | 0.3 | 0.3 | 0.3 |
| 6 | 1.9 | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 | 1.0 | 0.9 | 0.9 | 0.6 | 0.5 | 0.4 | 0.4 |
| 10 | 3.2 | 2.6 | 2.3 | 2.0 | 1.8 | 1.7 | 1.6 | 1.5 | 1.4 | 1.0 | 0.8 | 0.7 | 0.6 |
| 16 | 5.1 | 4.2 | 3.6 | 3.2 | 3.0 | 2.7 | 2.6 | 2.4 | 2.3 | 1.6 | 1.3 | 1.1 | 1.0 |
| 25 | 8.0 | 6.5 | 5.7 | 5.1 | 4.6 | 4.3 | 4.0 | 3.8 | 3.6 | 2.5 | 2.1 | 1.8 | 1.6 |
| 35 | 11.2 | 9.1 | 7.9 | 7.1 | 6.5 | 6.0 | 5.6 | 5.3 | 5.0 | 3.5 | 2.9 | 2.5 | 2.2 |
| 50 | 16.0 | 13.1 | 11.3 | 10.1 | 9.2 | 8.5 | 8.0 | 7.5 | 7.2 | 5.1 | 4.1 | 3.6 | 3.2 |
| 70 | 22.4 | 18.3 | 15.8 | 14.2 | 12.9 | 12.0 | 11.2 | 10.6 | 10.0 | 7.1 | 5.8 | 5.0 | 4.5 |
| 95 | 30.4 | 24.8 | 21.5 | 19.2 | 17.5 | 16.2 | 15.2 | 14.3 | 13.6 | 9.6 | 7.8 | 6.8 | 6.1 |
| 120 | 38.4 | 31.3 | 27.1 | 24.3 | 22.2 | 20.5 | 19.2 | 18.1 | 17.2 | 12.1 | 9.9 | 8.6 | 7.7 |
| 150 | 48.0 | 39.2 | 33.9 | 30.3 | 27.7 | 25.6 | 24.0 | 22.6 | 21.5 | 15.2 | 12.4 | 10.7 | 9.6 |
| 185 | 59.2 | 48.3 | 41.8 | 37.4 | 34.2 | 31.6 | 29.6 | 27.9 | 26.5 | 18.7 | 15.3 | 13.2 | 11.8 |
| 240 | 76.7 | 62.7 | 54.3 | 48.5 | 44.3 | 41.0 | 38.4 | 36.2 | 34.3 | 24.3 | 19.8 | 17.2 | 15.3 |
| 300 | 95.9 | 78.3 | 67.8 | 60.7 | 55.4 | 51.3 | 48.0 | 45.2 | 42.9 | 30.3 | 24.8 | 21.5 | 19.2 |
| 400 | 127.9 | 104.4 | 90.4 | 80.9 | 73.8 | 68.4 | 64.0 | 60.3 | 57.2 | 40.4 | 33.0 | 28.6 | 25.6 |
| 500 | 159.9 | 130.5 | 113.1 | 101.1 | 92.3 | 85.5 | 79.9 | 75.4 | 71.5 | 50.6 | 41.3 | 35.8 | 32.0 |
| 630 | 201.4 | 164.5 | 142.4 | 127.4 | 116.3 | 107.7 | 100.7 | 95.0 | 90.1 | 63.7 | 52.0 | 45.0 | 40.3 |
| 800 | 255.8 | 208.9 | 180.9 | 161.8 | 147.7 | 136.7 | 127.9 | 120.6 | 114.4 | 80.9 | 66.0 | 57.2 | 51.2 |
| 1000 | 319.8 | 261.1 | 226.1 | 202.2 | 184.6 | 170.9 | 159.9 | 150.7 | 143.0 | 101.1 | 82.6 | 71.5 | 64.0 |

Above values of currents are based on the formula: $I = kA/\sqrt{t}$
I = Short circuit current (KA).
A = Conductor area ($mm^2$).
t = Short circuit time in sec.
k = 0.143

**B. Permissible short circuit current for copper conductors with PVC Insulation**

| AREA (mm2) | TRIPPING TIMES (SECONDS) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 | 2 | 3 | 4 | 5 |
| 1.5 | 0.35 | 0.28 | 0.25 | 0.22 | 0.20 | 0.19 | 0.17 | 0.16 | 0.16 | 0.11 | 0.09 | 0.08 | 0.07 |
| 2.5 | 0.58 | 0.47 | 0.41 | 0.37 | 0.34 | 0.31 | 0.29 | 0.27 | 0.26 | 0.18 | 0.15 | 0.13 | 0.12 |
| 4 | 0.93 | 0.76 | 0.66 | 0.59 | 0.54 | 0.50 | 0.47 | 0.44 | 0.42 | 0.29 | 0.24 | 0.21 | 0.19 |
| 6 | 1.40 | 1.14 | 0.99 | 0.88 | 0.81 | 0.75 | 0.70 | 0.66 | 0.62 | 0.44 | 0.36 | 0.31 | 0.28 |
| 10 | 2.33 | 1.90 | 1.64 | 1.47 | 1.34 | 1.24 | 1.16 | 1.10 | 1.04 | 0.74 | 0.60 | 0.52 | 0.47 |
| 16 | 3.72 | 3.04 | 2.63 | 2.35 | 2.15 | 1.99 | 1.86 | 1.75 | 1.66 | 1.18 | 0.96 | 0.83 | 0.74 |
| 25 | 5.81 | 4.75 | 4.11 | 3.68 | 3.36 | 3.11 | 2.91 | 2.74 | 2.60 | 1.84 | 1.50 | 1.30 | 1.16 |
| 35 | 8.14 | 6.65 | 5.76 | 5.15 | 4.70 | 4.35 | 4.07 | 3.84 | 3.64 | 2.57 | 2.10 | 1.82 | 1.63 |
| 50 | 11.6 | 9.49 | 8.22 | 7.35 | 6.71 | 6.22 | 5.81 | 5.48 | 5.20 | 3.68 | 3.00 | 2.60 | 2.33 |
| 70 | 16.3 | 13.3 | 11.5 | 10.3 | 9.40 | 8.70 | 8.14 | 7.67 | 7.28 | 5.15 | 4.20 | 3.64 | 3.26 |
| 95 | 22.1 | 18.0 | 15.6 | 14.0 | 12.8 | 11.8 | 11.0 | 10.4 | 9.88 | 6.99 | 5.70 | 4.94 | 4.42 |
| 120 | 27.9 | 22.8 | 19.7 | 17.6 | 16.1 | 14.9 | 14.0 | 13.2 | 12.5 | 8.82 | 7.21 | 6.24 | 5.58 |
| 150 | 34.9 | 28.5 | 24.7 | 22.1 | 20.1 | 18.6 | 17.4 | 16.4 | 15.6 | 11.0 | 9.01 | 7.80 | 6.98 |
| 185 | 43.0 | 35.1 | 30.4 | 27.2 | 24.8 | 23.0 | 21.5 | 20.3 | 19.2 | 13.6 | 11.1 | 9.62 | 8.60 |
| 240 | 55.8 | 45.6 | 39.5 | 35.3 | 32.2 | 29.8 | 27.9 | 26.3 | 25.0 | 17.6 | 14.4 | 12.5 | 11.2 |
| 300 | 69.8 | 57.0 | 49.3 | 44.1 | 40.3 | 37.3 | 34.9 | 32.9 | 31.2 | 22.1 | 18.0 | 15.6 | 14.0 |
| 400 | 93.0 | 76.0 | 65.8 | 58.8 | 53.7 | 49.7 | 46.5 | 43.9 | 41.6 | 29.4 | 24.0 | 20.8 | 18.6 |
| 500 | 116 | 94.9 | 82.2 | 73.5 | 67.1 | 62.2 | 58.1 | 54.8 | 52.0 | 36.8 | 30.0 | 26.0 | 23.3 |
| 630 | 147 | 120 | 104 | 92.7 | 84.6 | 78.3 | 73.3 | 69.1 | 65.5 | 46.3 | 37.8 | 32.8 | 29.3 |
| 800 | 186 | 152 | 132 | 118 | 107 | 99.4 | 93.0 | 87.7 | 83.2 | 58.8 | 48.0 | 41.6 | 37.2 |
| 1000 | 233 | 190 | 164 | 147 | 134 | 124 | 116 | 110 | 104 | 73.5 | 60.0 | 52.0 | 46.5 |

Above values of currents are based on the formula: $I = kA/\sqrt{t}$ I =Short circuit current (KA)
A = Conductor area (mm2).
t = Short circuit time in sec.
k = 0.104

## Max. Short circuit temperature

| CONSTRUCTION | MAX. SHORT CIRCUIT CONDUCTOR TEMPERATURE |
|---|---|
| PVC CABLE | 140°C FOR CROSS SECTIONAL AREA > 300MM² |
| | 160°C for Cross Sectional Area □ 300mm² |
| XLPE CABLE | 250°C |

# TECHNICAL INFORMATION

## 0.6/1 KV CABLES

CURRENT CARRYING CAPACITY (AMPERE)

| Nominal Cross Sectional Area (mm2) | FOR XLPE INSULATED CABLES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 3 & 4 Core Cables | | | 2 Core Cables | | | Single Core Cables | | |
| | In Ground | InAir | In Duct | In Ground | InAir | In Duct | In Ground | InAir | InDuct |
| 1.5 | 30 | 24 | 25 | 37 | 29 | 31 | 32 | 27 | 29 |
| 2.5 | 40 | 32 | 33 | 47 | 39 | 40 | 43 | 37 | 40 |
| 4 | 52 | 42 | 41 | 67 | 52 | 52 | 55 | 48 | 52 |
| 6 | 64 | 53 | 51 | 78 | 67 | 66 | 70 | 60 | 67 |
| 10 | 86 | 73 | 68 | 103 | 90 | 87 | 93 | 82 | 88 |
| 16 | 111 | 96 | 89 | 137 | 120 | 112 | 122 | 112 | 114 |
| 25 | 143 | 130 | 118 | 177 | 156 | 144 | 157 | 150 | 151 |
| 35 | 173 | 160 | 142 | 212 | 193 | 185 | 186 | 178 | 174 |
| 5o | 205 | 195 | 168 | 258 | 232 | 209 | 225 | 220 | 225 |
| 70 | 252 | 247 | 209 | 308 | 292 | 258 | 276 | 281 | 270 |
| 95 | 303 | 305 | 251 | 371 | 360 | 309 | 330 | 344 | 318 |
| 120 | 346 | 355 | 290 | 420 | 416 | 352 | 375 | 400 | 356 |
| 150 | 390 | 407 | 327 | 471 | 453 | 394 | 419 | 460 | 385 |
| 185 | 441 | 469 | 370 | 521 | 548 | 449 | 471 | 528 | 425 |
| 240 | 511 | 551 | 424 | 605 | 647 | 518 | 542 | 622 | 476 |
| 300 | 580 | 638 | 488 | 674 | 738 | 582 | 606 | 709 | 519 |
| 400 | 654 | 735 | 563 | 786 | 849 | 652 | 671 | 810 | 551 |
| 500 | | | | | | | 744 | 916 | 598 |
| 630 | | | | | | | 817 | 1032 | 645 |
| 800 | | | | | | | 864 | 1121 | 672 |
| 1000 | | | | | | | 915 | 1216 | 714 |

**Operating Conditions:**
Ambient Temperature: 30°C
Ground Temperature: 20°C
Depth of Laying: 0.5m
Thermal Resistivity of soil: 1.2°C m/W

# TECHNICAL INFORMATION

## 0.6/1 KV CABLES

CURRENT CARRYING CAPACITY (AMPERE)

| Nominal Cross Sectional Area (mm2) | FOR PVC INSULATED CABLES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 3 & 4 Core Cables | | | 2 Core Cables | | | Single Core Cables | | |
| | In Ground | InAir | In Duct | In Ground | InAir | In Duct | In Ground | InAir | InDuct |
| 1.5 | 29 | 23 | 24 | 35 | 27 | 29 | 31 | 26 | 28 |
| 2.5 | 38 | 30 | 31 | 44 | 37 | 38 | 41 | 35 | 38 |
| 4 | 49 | 40 | 39 | 64 | 49 | 49 | 52 | 46 | 49 |
| 6 | 61 | 5o | 48 | 74 | 64 | 63 | 66 | 57 | 64 |
| 10 | 82 | 69 | 65 | 98 | 86 | 83 | 88 | 78 | 84 |
| 16 | l05 | 91 | 85 | 130 | 114 | 106 | 116 | 106 | 108 |
| 25 | 136 | 123 | 113 | 168 | 148 | 137 | 149 | 142 | 143 |
| 35 | 164 | 152 | 135 | 201 | 183 | 176 | 177 | 169 | 165 |
| 5o | 195 | 184 | 160 | 245 | 220 | 198 | 214 | 209 | 211 |
| 70 | 239 | 233 | 199 | 294 | 277 | 245 | 262 | 267 | 256 |
| 95 | 288 | 275 | 238 | 353 | 342 | 293 | 313 | 327 | 302 |
| 120 | 329 | 337 | 275 | 400 | 386 | 334 | 356 | 380 | 338 |
| l50 | 370 | 385 | 310 | 445 | 437 | 374 | 398 | 437 | 366 |
| 185 | 419 | 445 | 353 | 495 | 521 | 426 | 447 | 502 | 404 |
| 240 | 485 | 523 | 405 | 575 | 601 | 492 | 5l5 | 591 | 452 |
| 300 | 50 | 596 | 450 | 640 | 684 | 553 | 575 | 653 | 487 |
| 400 | 621 | 675 | 535 | 747 | 784 | 619 | 636 | 745 | 517 |
| 5oo | | | | | | | 694 | 843 | 55l |
| 630 | | | | | | | 757 | 949 | 591 |
| 800 | | | | | | | 794 | 997 | 616 |
| 1000 | | | | | | | 837 | 1075 | 654 |

Operating Conditions:
Ambient Temperature: 30°C, Ground Temperature: 20°C
Depth of Laying: 0.5m, Thermal Resistivity of soil: 1.2°C m/W

| DE-RATING FACTORS FOR CONTROL CABLES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No.ofCores | 5 | 7 | 10 | 14 | 19 | 24 | 40 | 61 |
| Factors in Ground | 0.70 | 0.60 | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.25 |
| Factors in Air | 0.75 | 0.65 | 0.55 | 0.5 | 0.45 | 0.40 | 0.35 | 0.30 |

# TECHNICAL INFORMATION

## 0.6/1 KV CABLES

FACTORS FOR CURRENT CARRYING CAPACITY

**A. Factors for variation in ambient temperature:**

| AIR TEMPERATURE ° C | | 10 | l5 | 20 | 25 | 30 | 35 | 40 | 45 | 5o |
|---|---|---|---|---|---|---|---|---|---|---|
| INSULATION | XLPE | 1.l5 | 1.12 | 1.08 | 1.04 | 1.0 | 0.96 | 0.91 | 0.87 | 0.82 |
| | PVC | 1.22 | 1.17 | 1.12 | 1.07 | 1.0 | 0.94 | 0.87 | 0.79 | 0.71 |

**B. Factors for variation in ground temperature:**

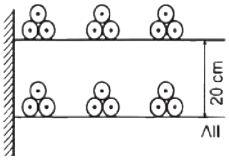
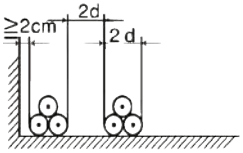
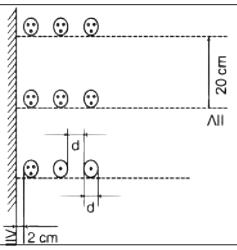
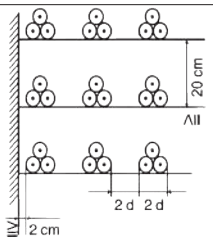
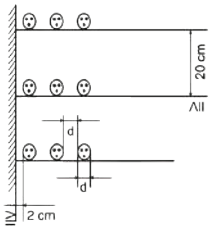
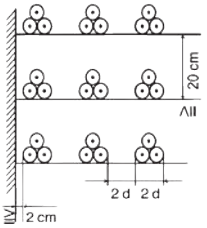
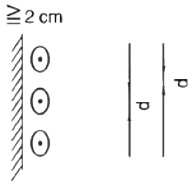
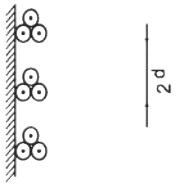
| GROUND TEMPERATURE ° C | | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|
| INSULATION | XLPE | 1.07 | 1.04 | 1.00 | 0.96 | 0.93 | 0.89 | 0.85 | 0.80 | 0.76 |
| | PVC | 1.10 | 1.05 | 1.00 | 0.95 | 0.89 | 0.84 | 0.77 | 0.71 | 0.63 |

**C. Rating Factors for Depth of Laying for cables laid Direct in Ground or in Ducts**

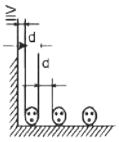
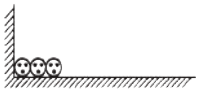
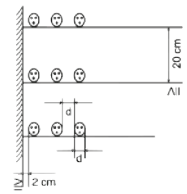
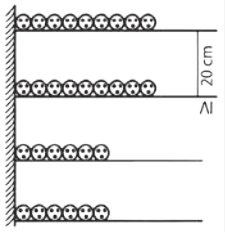
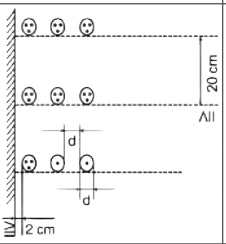
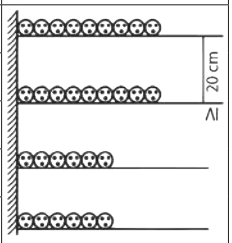
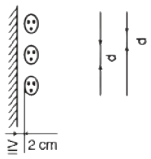
| Depth of Laying | Cables Laid Direct in Ground | | | Cable Laid in Ducts | |
|---|---|---|---|---|---|
| Meter | Up to 50 mm2 | 70 mm2 to 300 mm2 | Above 300 mm2 | Single Core | Multi Core |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 0.60 | 0.99 | 0.99 | 0.97 | 0.98 | 0.98 |
| 0.80 | 0.97 | 0.96 | 0.95 | 0.95 | 0.98 |
| 1.00 | 0.95 | 0.93 | 0.92 | 0.93 | 0.96 |
| 1.25 | 0.94 | 0.92 | 0.89 | 0.90 | 0.95 |
| 1.50 | 0.93 | 0.90 | 0.87 | 0.89 | 0.94 |
| 1.75 | 0.92 | 0.89 | 0.86 | 0.88 | 0.94 |
| 2.00 | 0.91 | 0.88 | 0.85 | 0.87 | 0.93 |
| 2.50 | 0.90 | 0.87 | 0.84 | 0.86 | 0.93 |
| 3.00 | 0.89 | 0.85 | 0.82 | 0.85 | 0.92 |

## D. Factors for grouping in air.

i) Single core cables in three phase systems.

| Arrangement of cables | | In flat formation, clearance = cable diameter d<br>Distance from wall ≥ 2 cm | | | | In flat formation, clearance = 2d<br>Distance from wall ≥ 2 cm | | | |
|---|---|---|---|---|---|---|---|---|---|
| Number of systems sidebyside | | 1 | 2 | 3 | | 1 | 2 | 3 | |
| Laying on the ground | | 0.92 | 0.89 | 0.88 |  | 0.95 | 0.90 | 0.88 |  |
| Laying on cable troughs (restricted air circulation) | Number of troughs | | | |  | | | |  |
| | 1 | 0.92 | 0.89 | 0.88 | | 0.95 | 0.90 | 0.88 | |
| | 2 | 0.87 | 0.84 | 0.83 | | 0.90 | 0.85 | 0.83 | |
| | 3 | 0.84 | 0.82 | 0.81 | | 0.88 | 0.83 | 0.81 | |
| | 6 | 0.82 | 0.80 | 0.79 | | 0.86 | 0.81 | 0.79 | |
| Laying on cable troughs (restricted air circulation) | Number of grills | | | |  | | | |  |
| | 1 | 1.00 | 0.97 | 0.96 | | 1.00 | 0.98 | 0.96 | |
| | 2 | 0.97 | 0.94 | 0.93 | | 1.00 | 0.95 | 0.93 | |
| | 3 | 0.96 | 0.93 | 0.92 | | 1.00 | 0.94 | 0.92 | |
| | 6 | 0.94 | 0.91 | 0.90 | | 1.00 | 0.93 | 0.90 | |
| | Number of systems above each other | 1 | 2 | 3 |  | 1 | 2 | 3 |  |
| Arranged on frameworks or at walls | | 0.94 | 0.91 | 0.89 | | 0.89 | 0.86 | 0.84 | |

**ii) Multi core cables in three phase systems.**

| Arrangement of cables | In flat formation, clearance = cable diameter d Distance from wall ≥ 2 cm | | | | | | Cables touching each other and in contact with the wall | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of cables side by side | 1 | 2 | 3 | 6 | 9 | | 1 | 2 | 3 | | | |
| Laying on the ground | 0.95 | 0.90 | 0.88 | 0.85 | 0.84 |  | 0.90 | 0.84 | 0.80 | 0.75 | 0.73 |  |
| Laying on cable troughs (restricted air circulation) | | | | | |  | | | | | |  |
| Number of troughs | | | | | | | | | | | | |
| 1 | 0.95 | 0.90 | 0.88 | 0.85 | 0.84 | | 0.95 | 0.84 | 0.85 | 0.75 | 0.73 | |
| 2 | 0.90 | 0.85 | 0.83 | 0.81 | 0.80 | | 0.95 | 0.85 | 0.76 | 0.71 | 0.69 | |
| 3 | 0.88 | 0.83 | 0.81 | 0.79 | 0.78 | | 0.95 | 0.78 | 0.74 | 0.70 | 0.68 | |
| 6 | 0.86 | 0.81 | 0.79 | 0.77 | 0.76 | | 0.95 | 0.76 | 0.79 | 0.68 | 0.66 | |
| Laying on cable grills (unrestricted air circulation) | | | | | |  | | | | | |  |
| Number of grills | | | | | | | | | | | | |
| 1 | 1.00 | 0.98 | 0.96 | 0.93 | 0.92 | | 0.95 | 0.84 | 0.80 | 0.75 | 0.73 | |
| 2 | 1.00 | 0.95 | 0.93 | 0.90 | 0.89 | | 0.95 | 0.80 | 0.76 | 0.71 | 0.69 | |
| 3 | 1.00 | 0.94 | 0.92 | 0.89 | 0.88 | | 0.95 | 0.78 | 0.74 | 0.70 | 0.68 | |
| 6 | 1.00 | 0.91 | 0.90 | 0.87 | 0.86 | | 0.95 | 0.76 | 0.72 | 0.68 | 0.66 | |
| Arranged on frameworks or at walls | 1 | 2 | 3 | 6 | 9 |  | 1 | 2 | 3 | 6 | 9 |  |
| Number of cables above each other | 1.00 | 0.93 | 0.90 | 0.87 | 0.86 | | 0.95 | 0.78 | 0.73 | 0.68 | 0.66 | |

# TECHNICAL INFORMATION

## 0.6/1 KV CABLES

RATING FACTORS FOR VARIATION IN THERMAL RESISTIVITY OF SOIL

### A) FOR MULTI CORE CABLES LAID DIRECT IN THE GROUND

| AREA (mm²) | THERMAL RESISTIVITY OF SOIL IN °C M/W | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
| 1.5 | 1.12 | 1.09 | 1.07 | 1.04 | 1.0 | 0.94 | 0.86 | 0.80 | 0.75 | 0.70 | 0.66 |
| 2.5 | 1.12 | 1.09 | 1.07 | 1.04 | 1.0 | 0.94 | 0.86 | 0.80 | 0.75 | 0.70 | 0.66 |
| 4 | 1.13 | 1.10 | 1.07 | 1.05 | 1.0 | 0.94 | 0.85 | 0.79 | 0.74 | 0.69 | 0.65 |
| 6 | 1.14 | 1.10 | 1.07 | 1.05 | 1.0 | 0.93 | 0.85 | 0.79 | 0.74 | 0.68 | 0.64 |
| 10 | 1.15 | 1.11 | 1.08 | 1.05 | 1.0 | 0.93 | 0.85 | 0.78 | 0.73 | 0.67 | 0.63 |
| 16 | 1.16 | 1.12 | 1.08 | 1.05 | 1.0 | 0.93 | 0.84 | 0.77 | 0.72 | 0.66 | 0.62 |
| 25 | 1.17 | 1.13 | 1.09 | 1.05 | 1.0 | 0.93 | 0.83 | 0.77 | 0.71 | 0.65 | 0.61 |
| 35 | 1.17 | 1.13 | 1.09 | 1.06 | 1.0 | 0.92 | 0.83 | 0.76 | 0.71 | 0.65 | 0.61 |
| 5o | 1.17 | 1.13 | 1.09 | 1.06 | 1.0 | 0.92 | 0.83 | 0.76 | 0.71 | 0.65 | 0.61 |
| 70 | 1.18 | 1.14 | 1.09 | 1.06 | 1.0 | 0.92 | 0.83 | 0.75 | 0.70 | 0.64 | 0.60 |
| 95 | 1.18 | 1.14 | 1.09 | 1.06 | 1.0 | 0.92 | 0.83 | 0.75 | 0.70 | 0.64 | 0.60 |
| 120 | 1.19 | 1.14 | 1.10 | 1.06 | 1.0 | 0.92 | 0.82 | 0.75 | 0.69 | 0.63 | 0.60 |
| 150 | 1.19 | 1.14 | 1.10 | 1.06 | 1.0 | 0.92 | 0.82 | 0.75 | 0.69 | 0.63 | 0.59 |
| 185 | 1.19 | 1.14 | 1.10 | 1.06 | 1.0 | 0.92 | 0.82 | 0.74 | 0.69 | 0.63 | 0.59 |
| 240 | 1.20 | 1.15 | 1.10 | 1.07 | 1.0 | 0.92 | 0.81 | 0.74 | 0.69 | 0.63 | 0.59 |
| 300 | 1.20 | 1.15 | 1.10 | 1.07 | 1.0 | 0.92 | 0.81 | 0.74 | 0.69 | 0.63 | 0.59 |
| 400 | 1.20 | 1.15 | 1.10 | 1.07 | 1.0 | 0.92 | 0.81 | 0.74 | 0.69 | 0.63 | 0.59 |

### B) FOR SINGLE AND THREE PHASE OF SINGLE CORE CABLES LAID DIRECT IN THE GROUND

| AREA (mm²) | THERMAL RESISTIVITY OF SOIL IN °C M/W | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
| 5o | 1.21 | 1.16 | 1.11 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |
| 70 | 1.22 | 1.16 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |
| 95 | 1.22 | 1.16 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |
| 120 | 1.22 | 1.16 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |
| 150 | 1.22 | 1.16 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.63 | 0.59 |
| 185 | 1.22 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.81 | 0.73 | 0.68 | 0.62 | 0.59 |
| 240 | 1.23 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.68 | 0.62 | 0.59 |
| 300 | 1.23 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.68 | 0.62 | 0.59 |
| 400 | 1.23 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.67 | 0.62 | 0.58 |
| 500 | 1.23 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.67 | 0.62 | 0.58 |
| 630 | 1.23 | 1.17 | 1.12 | 1.07 | 1.0 | 0.91 | 0.80 | 0.73 | 0.67 | 0.61 | 0.58 |

**C) FOR THREE PHASE SINGLE CORE CABLES LAID IN DUCT**

| AREA ($mm^2$) | THERMAL RESISTIVITY OF SOIL IN °C M/W | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
| 5o | 1.11 | 1.08 | 1.06 | 1.04 | 1.0 | 0.94 | 0.87 | 0.82 | 0.77 | 0.73 | 0.69 |
| 70 | 1.12 | 1.09 | 1.06 | 1.04 | 1.0 | 0.94 | 0.87 | 0.81 | 0.76 | 0.72 | 0.68 |
| 95 | 1.12 | 1.09 | 1.06 | 1.04 | 1.0 | 0.94 | 0.87 | 0.81 | 0.76 | 0.72 | 0.68 |
| 120 | 1.13 | 1.10 | 1.07 | 1.04 | 1.0 | 0.94 | 0.86 | 0.80 | 0.75 | 0.72 | 0.67 |
| 150 | 1.13 | 1.10 | 1.07 | 1.04 | 1.0 | 0.94 | 0.86 | 0.80 | 0.75 | 0.71 | 0.67 |
| 185 | 1.13 | 1.10 | 1.07 | 1.04 | 1.0 | 0.93 | 0.86 | 0.79 | 0.75 | 0.70 | 0.67 |
| 240 | 1.14 | 1.11 | 1.07 | 1.04 | 1.0 | 0.93 | 0.86 | 0.79 | 0.74 | 0.70 | 0.66 |
| 300 | 1.14 | 1.11 | 1.08 | 1.05 | 1.0 | 0.93 | 0.85 | 0.79 | 0.74 | 0.69 | 0.65 |
| 400 | 1.14 | 1.11 | 1.08 | 1.05 | 1.0 | 0.93 | 0.85 | 0.78 | 0.73 | 0.68 | 0.65 |
| 500 | 1.15 | 1.11 | 1.08 | 1.05 | 1.0 | 0.93 | 0.85 | 0.78 | 0.73 | 0.68 | 0.64 |
| 630 | 1.15 | 1.12 | 1.08 | 1.05 | 1.0 | 0.93 | 0.84 | 0.78 | 0.72 | 0.68 | 0.64 |

# TECHNICAL INFORMATION

## 0.6/1 KV CABLES

## FACTORS FOR CURRENT CARRYING CAPACITY

For cable installation in other conditions, the current rating can be determined by the use of various rating factors given here under:

**INSTALLATION IN GROUND**

**A. Factors for grouping in soil**

**Single core cables in flat formation**
**Clearance between systems: 7 cm**

| Insulation Type | Load Factor | 0.7 | | | | 1 |
|---|---|---|---|---|---|---|
| | Thermal Resistivity of the soil k.m/W | 0.7 | 1.0 | 1.5 | 2.5 | 0.7-2.5 |
| | No. of systems in the trench fi | | | | | |
| XLPE | 1 | 0.99 | 1.00 | 1.01 | 1.03 | 0.85 |
| | 2 | 0.86 | 0.87 | 0.88 | 0.88 | 0.71 |
| | 3 | 0.77 | 0.77 | 0.78 | 0.79 | 0.62 |
| | 4 | 0.73 | 0.73 | 0.74 | 0.74 | 0.58 |
| | 5 | 0.69 | 0.70 | 0.70 | 0.71 | 0.55 |
| | 6 | 0.67 | 0.68 | 0.68 | 0.69 | 0.53 |
| | 8 | 0.64 | 0.65 | 0.65 | 0.65 | 0.52 |
| | 10 | 0.62 | 0.63 | 0.63 | 0.63 | 0.49 |
| PVC | 1 | 0.98 | 1.00 | 1.01 | 1.02 | 0.85 |
| | 2 | 0.86 | 0.87 | 0.88 | 0.89 | 0.71 |
| | 3 | 0.77 | 0.78 | 0.79 | 0.79 | 0.62 |
| | 4 | 0.73 | 0.74 | 0.74 | 0.75 | 0.58 |
| | 5 | 0.70 | 0.70 | 0.71 | 0.71 | 0.55 |
| | 6 | 0.68 | 0.68 | 0.69 | 0.69 | 0.53 |
| | 8 | 0.65 | 0.65 | 0.65 | 0.66 | 0.51 |
| | 10 | 0.63 | 0.63 | 0.63 | 0.64 | 0.49 |

**B. Factors for variation in ambient temperature and thermal resistivity of the soil.**

| Insulation Type | Thermal Resistivity of the soil k.m/W | 0.7 | | 1.0 | | 1.5 | | 2.5 |
|---|---|---|---|---|---|---|---|---|
| | Load Factor Fi | 0.7 | 1.0 | 0.7 | 1.0 | 0.7 | 1.0 | 0.7-2.5 |
| | Soil Temperature °C fi | | | | | | | |
| XLPE | 10 | 1.16 | 1.05 | 1.05 | 0.98 | 0.95 | 0.91 | 0.86 |
| | 15 | 1.14 | 1.03 | 1.02 | 0.95 | 0.92 | 0.89 | 0.84 |
| | 20 | 1.12 | 1.00 | 1.00 | 0.93 | 0.9 | 0.86 | 0.81 |
| | 25 | | | 0.98 | 0.90 | 0.87 | 0.84 | 0.78 |
| | 30 | | | 0.95 | 0.88 | 0.84 | 0.81 | 0.75 |
| | 35 | | | | | 0.82 | 0.78 | 0.72 |
| | 40 | | | | | | | 0.68 |
| PVC | 10 | 1.19 | 1.06 | 1.06 | 0.97 | 0.94 | 0.89 | 0.83 |
| | 15 | 1.17 | 1.03 | 1.03 | 0.94 | 0.91 | 0.86 | 0.79 |
| | 20 | 1.14 | 1.01 | 1.00 | 0.91 | 0.87 | 0.83 | 0.76 |
| | 25 | | | 0.97 | 0.88 | 0.84 | 0.79 | 0.72 |
| | 30 | | | 0.94 | 0.85 | 0.80 | 0.76 | 0.68 |
| | 35 | | | | | 0.77 | 0.72 | 0.63 |
| | 40 | | | | | | | 0.59 |

## C: FACTORS FOR GROUPING IN SOIL

Single core cables in trefoil formation
Clearance between systems: 7cm, 25cm

| Insulation Type | Load Factor | 0.7 | | | | | | | | 1 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Thermal Resistivity of the soil k.m/W | 0.7 | | 1.0 | | 1.5 | | 2.5 | | 0.7-2.5 | |
| | Clearance(cm) | 7 | 25 | 7 | 25 | 7 | 25 | 7 | 25 | 7 | 25 |
| | No. of systems in the systems | | | | | | | | | | |
| XLPE | 1 | 0.99 | 0.99 | 1.00 | 1.00 | 1.01 | 1.01 | 1.03 | 1.03 | 0.87 | 0.87 |
| | 2 | 0.84 | 0.89 | 0.85 | 0.89 | 0.86 | 0.90 | 0.87 | 0.91 | 0.71 | 0.75 |
| | 3 | 0.74 | 0.81 | 0.75 | 0.82 | 0.76 | 0.82 | 0.76 | 0.83 | 0.61 | 0.67 |
| | 4 | 0.69 | 0.78 | 0.70 | 0.78 | 0.70 | 0.79 | 0.71 | 0.79 | 0.56 | 0.64 |
| | 5 | 0.65 | 0.74 | 0.66 | 0.75 | 0.66 | 0.75 | 0.67 | 0.76 | 0.52 | 0.6 |
| | 6 | 0.62 | 0.72 | 0.63 | 0.73 | 0.63 | 0.73 | 0.64 | 0.74 | 0.50 | 0.59 |
| | 8 | 0.58 | 0.70 | 0.59 | 0.70 | 0.59 | 0.70 | 0.59 | 0.71 | 0.46 | 0.56 |
| | 10 | 0.56 | 0.68 | 0.56 | 0.68 | 0.56 | 0.68 | 0.57 | 0.69 | 0.44 | 0.54 |
| PVC | 1 | 0.99 | 0.99 | 1.00 | 1.00 | 1.01 | 1.01 | 1.01 | 1.01 | 0.87 | 0.87 |
| | 2 | 0.84 | 0.89 | 0.85 | 0.90 | 0.86 | 0.91 | 0.87 | 0.92 | 0.71 | 0.75 |
| | 3 | 0.74 | 0.82 | 0.75 | 0.82 | 0.76 | 0.83 | 0.77 | 0.84 | 0.61 | 0.67 |
| | 4 | 0.69 | 0.78 | 0.70 | 0.79 | 0.71 | 0.79 | 0.71 | 0.80 | 0.56 | 0.64 |
| | 5 | 0.65 | 0.75 | 0.66 | 0.76 | 0.66 | 0.76 | 0.67 | 0.77 | 0.52 | 0.60 |
| | 6 | 0.62 | 0.73 | 0.63 | 0.74 | 0.64 | 0.74 | 0.64 | 0.75 | 0.50 | 0.59 |
| | 8 | 0.58 | 0.70 | 0.59 | 0.71 | 0.59 | 0.71 | 0.60 | 0.72 | 0.46 | 0.56 |
| | 10 | 0.55 | 0.69 | 0.56 | 0.69 | 0.56 | 0.69 | 0.57 | 0.70 | 0.44 | 0.54 |

**D. For grouping in soil**
**3, 4 & 5 core cables in trefoil formation Clearance between systems: 7cm**

| Insulation Type | Load Factor | 0.7 | | | | 1 |
|---|---|---|---|---|---|---|
| | **Thermal Resistivity of the soil k.m/W** | **0.7** | **1.0** | **1.5** | **2.5** | **0.7-2.5** |
| | No. of systems in the trench fi | | | | | |
| XLPE | 1 | 0.99 | 1.00 | 1.01 | 1.02 | 0.89 |
| | 2 | 0.84 | 0.85 | 0.86 | 0.87 | 0.72 |
| | 3 | 0.74 | 0.75 | 0.77 | 0.77 | 0.62 |
| | 4 | 0.69 | 0.70 | 0.71 | 0.72 | 0.57 |
| | 5 | 0.65 | 0.66 | 0.67 | 0.67 | 0.53 |
| | 6 | 0.63 | 0.63 | 0.64 | 0.65 | 0.51 |
| | 8 | 0.59 | 0.59 | 0.60 | 0.60 | 0.47 |
| | 10 | 0.56 | 0.56 | 0.57 | 0.57 | 0.44 |
| PVC | 1 | 0.94 | 1.00 | 1.01 | 1.02 | 0.89 |
| | 2 | 0.85 | 0.86 | 0.87 | 0.88 | 0.72 |
| | 3 | 0.75 | .0.76 | 0.77 | 0.78 | 0.62 |
| | 4 | 0.70 | 0.71 | 0.72 | 0.73 | 0.57 |
| | 5 | 0.66 | 0.67 | 0.68 | 0.68 | 0.53 |
| | 6 | 0.64 | 0.64 | 0.65 | 0.65 | 0.51 |
| | 8 | 0.59 | 0.60 | 0.61 | 0.61 | 0.47 |
| | 10 | 0.57 | 0.57 | 0.58 | 0.58 | 0.44 |

# TECHNICAL INFORMATION

**0.6/1 KV CABLES**

**Armour D.C. Resistance per km of cable @ 20° C**

| Nominal Cross Section (mm2) | Aluminium Wire armour | Galvanized Steel Wire Armour | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Single core | Two Core | | Three core | | Four Core | | Five core |
| | Ohm/km | Ohm/km | | Ohm/km | | Ohm/km | | Ohm/km |
| | Circular | Circular | Shaped | Circular | Shaped | Circular | Shaped | Circular |
| 1.5 | - | 10.2 | - | 9.5 | - | 8.8 | - | 8.2 |
| 2.5 | - | 8.8 | - | 8.2 | - | 7.7 | - | 6.8 |
| 4 | - | 7.9 | - | 7.5 | - | 6.8 | - | 6.2 |
| 6 | - | 7.0 | - | 6.7 | - | 4.3 | - | 3.9 |
| 10 | - | 6.0 | - | 4.0 | - | 3.7 | - | 3.4 |
| 16 | - | 3.7 | - | 3.5 | - | 3.1 | - | 2.2 |
| 25 | - | 3.2 | 3.7 | 2.3 | 2.5 | 2.1 | 2.3 | 1.8 |
| 35 | - | 2.2 | 2.6 | 2.1 | 2.3 | 1.9 | 2.0 | 1.6 |
| 50 | 1.3 | 2.0 | 2.3 | 1.8 | 2.0 | 1.3 | 1.8 | 1.1 |
| 70 | 0.75 | 1.4 | 2.0 | 1.3 | 1.8 | 1.2 | 1.2 | 0.94 |
| 95 | 0.67 | 1.2 | 1.4 | 1.2 | 1.3 | 0.76 | 1.1 | - |
| 120 | 0.61 | 1.1 | 1.3 | 0.76 | 1.2 | 0.69 | 0.76 | - |
| 150 | 0.42 | - | 1.2 | - | 0.78 | - | 0.68 | - |
| 185 | 0.38 | - | 0.82 | - | 0.71 | - | 0.61 | - |
| 240 | 0.34 | - | 0.73 | - | 0.63 | - | 0.54 | - |
| 300 | 0.31 | - | 0.67 | - | 0.58 | - | 0.49 | - |
| 400 | 0.22 | - | 0.59 | - | 0.52 | - | 0.35 | - |
| 500 | 0.20 | - | - | - | - | - | - | - |
| 630 | 0.18 | - | - | - | - | - | - | - |
| 800 | 0.13 | - | - | - | - | - | - | - |
| 1000 | 0.12 | - | - | - | - | - | - | - |

# TECHNICAL INFORMATION

**0.6/1 KV CABLES**

**MINIMUM INSTALLATION RADIUS**

| TYPE OF CABLE | MINIMUM BENDING RADIUS |
|---|---|
| Circular conductors - armoured or unarmoured | 8xD |
| Shaped conductors - armoured or unarmoured | 10xD |

## MAXIMUM PULLING TENSIONS

**The maximum tension must not be exceeded when pulling a cable into ducts and conduits:**

a) Using a pulling eye:
Tm=7.16xnxA
Tm = Maximum tension (Kg)
n = No of conductors

b) Using a cable grip:
Tg=3.14xkxtx(D-t)
Tg = Maximum Tension (Kg)
t = Jacket thickness (mm)
D = Cable overall diameter (mm)
k = 0.7 Kg/sq.mm

**The jacket required to pull the cable in a straight duct can be calculated as follows:**

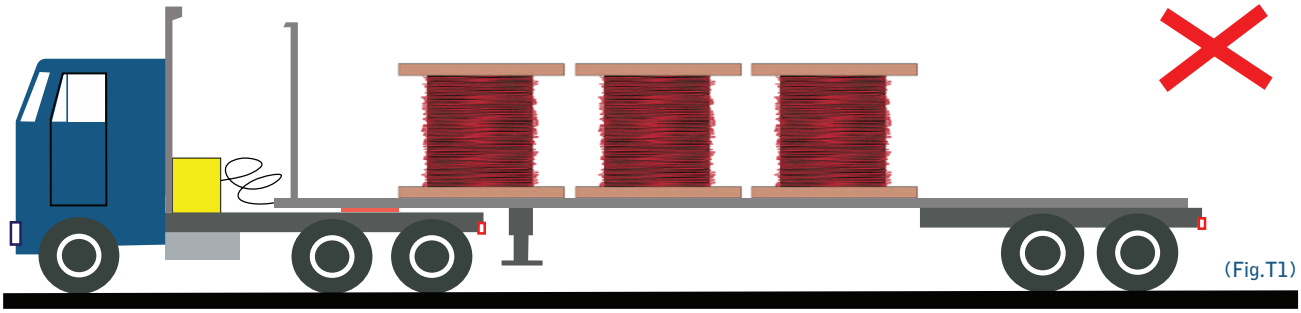
Ts=Lxwxf
Ts = Tension required to pull cable, Kg.
L = Length of cable, m
w = Weight of cable, Kg/m
f = Coefficient of friction

| Coefficient of friction | | | |
|---|---|---|---|
| Duct Material | Jacket Material | | |
| | PE | PVC | Rubber |
| Asbestos Cement | 0.56 | 0.56 | 0.68 |
| Rigid PVC | 0.34 | 0.52 | 0.53 |
| Metal | 0.36 | 0.55 | 0.60 |

# GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

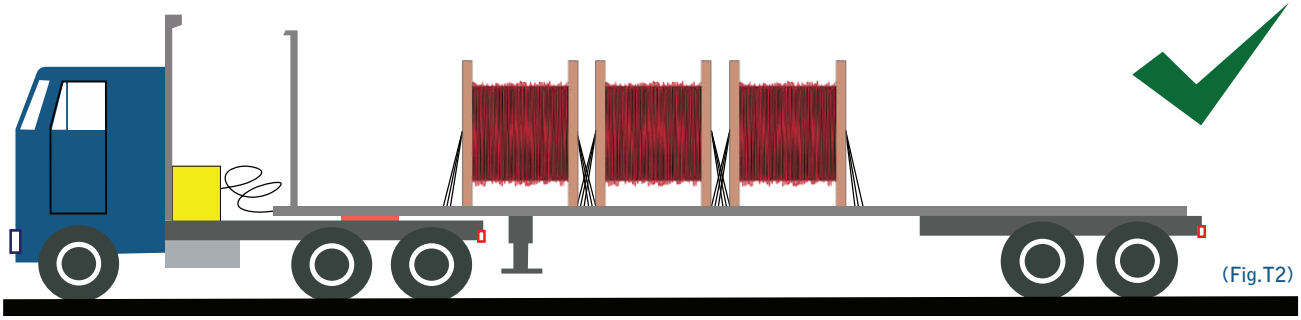
## TRANSPORTATION

**Do not** place the drums flat on flange during transportation (Fig.T1)



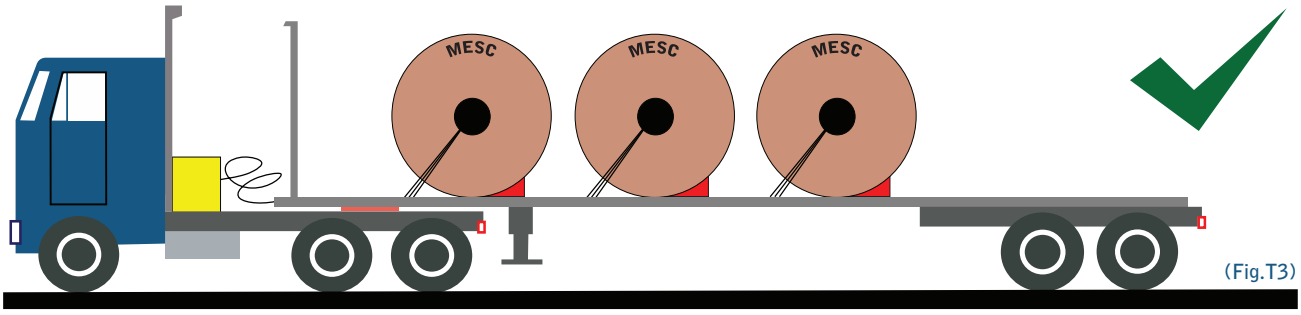
(Fig.T1)

**Keep** the drums Up Right position and tie with chain/slings (Fig.T2)



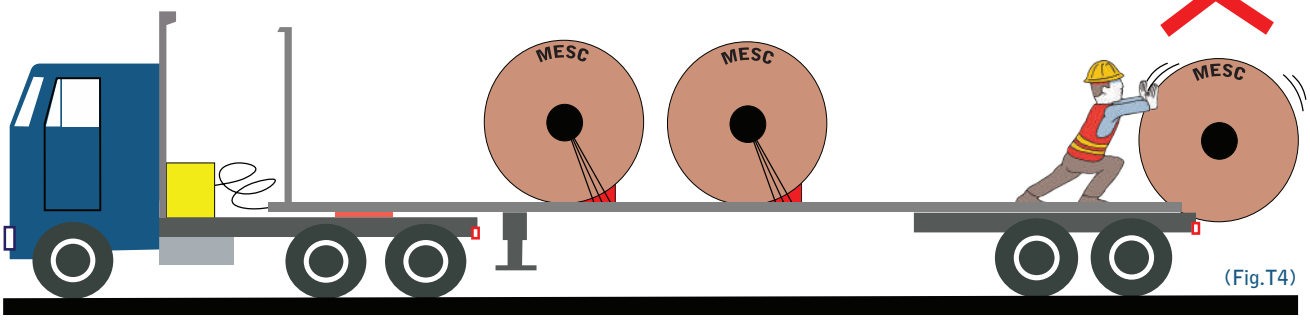
(Fig.T2)

**Secure** the drums with Wedges and Chains/Slings (Fig.T3)




(Fig.T3)

**Do Not** drop the drums to offload from truck, use forklift or similar (Fig.T4)

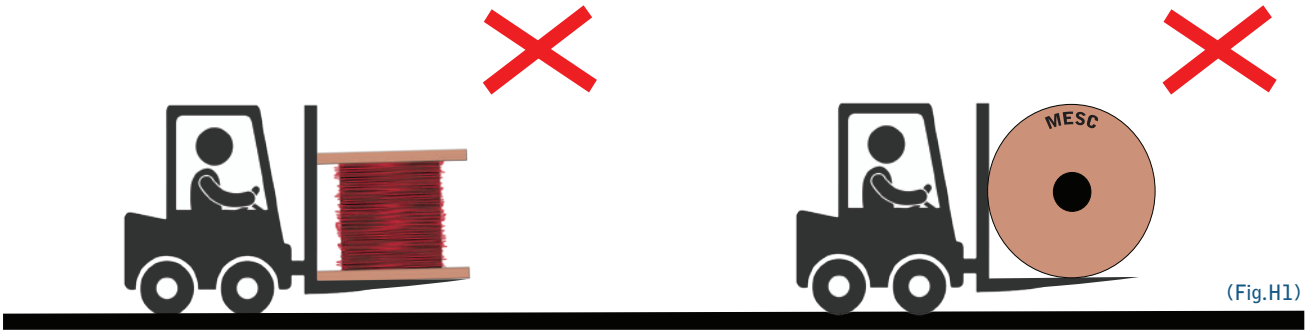



(Fig.T4)

# GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

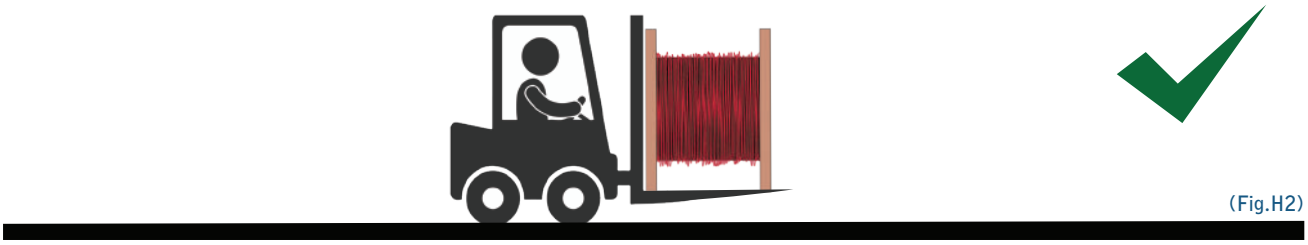
## HANDLING

**Do not** lift the drums flat on flange while offloading or shifting(Fig.H1)




(Fig.H1)

**Handle/ Transport** the drums with Flange Up Right position (Fig.H2)

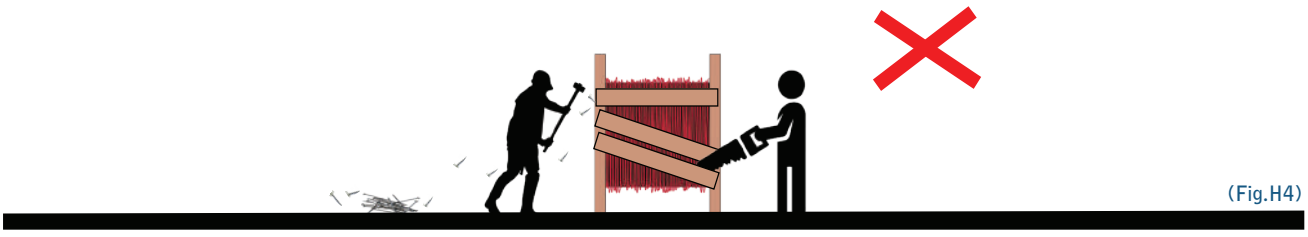


(Fig.H2)

**Roll** the drums in the direction of arrow only, never roll on opposite direction (Fig.H3)


(Fig.H3)

**Use** right and appropriate tools to remove packing materials from the drum (Fig.H4)



(Fig.H4)

# GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

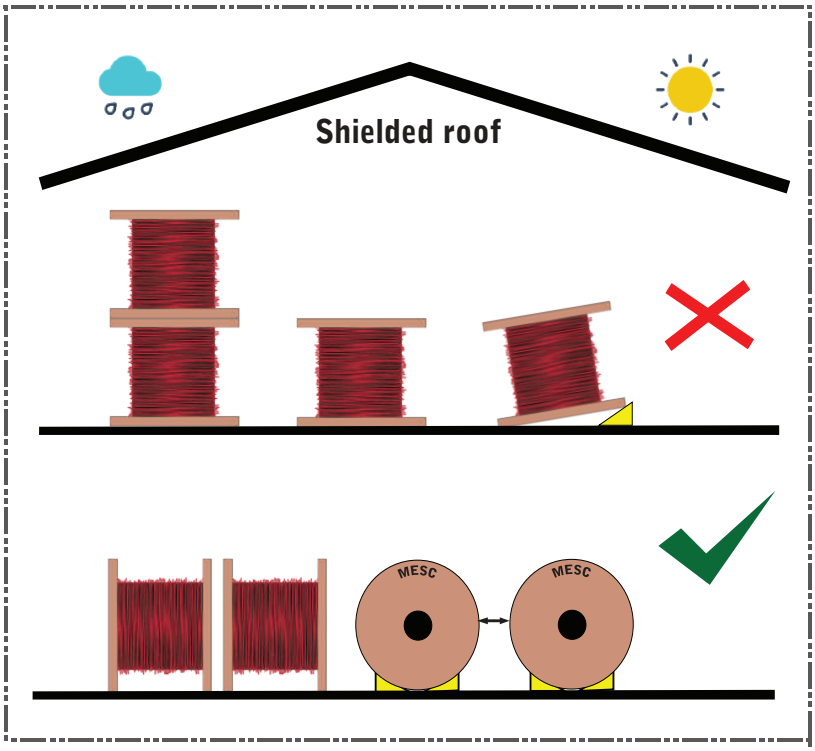
## STORAGE

**Keep** the Drums in Shaded area (Fig.S1)

**Do not** stack the Drums one over the other (Fig.S1)

**Do not** Keep the drums on sloped

**Use** drum stoppers ( e.g. wedges to )




(Fig.S1)

## Attention !

**1-** In case the cables are to be stored for long periods, ensure that the external thermal wrap is in place and do not keep the cable exposed to field conditions directly.

**2- LSHF/HFFR/LSF ( Low Smoke Zero Halogen)** Jacketed cables should be stored in shaded storage area and should avoid direct exposure to sunlight and rain water.

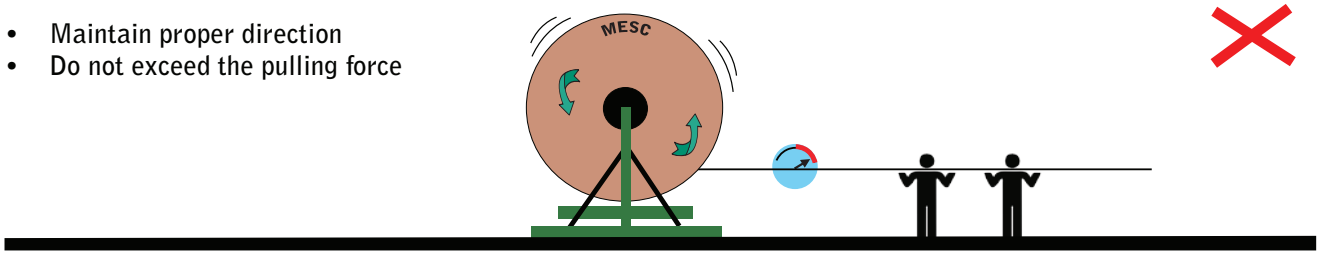
**3-** The cables shall be wound and kept on drums only. Cable shall not be stored in coil form.

**4-** Recommended storage temperature is : -150C to 550C

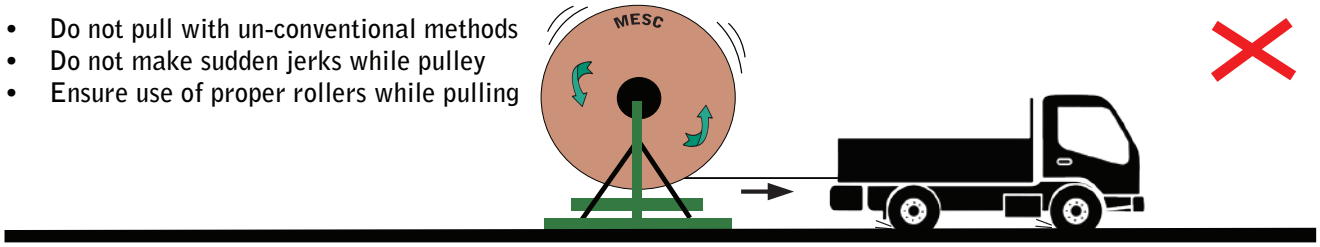
# GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

## INSTALLATION PRECAUTIONS

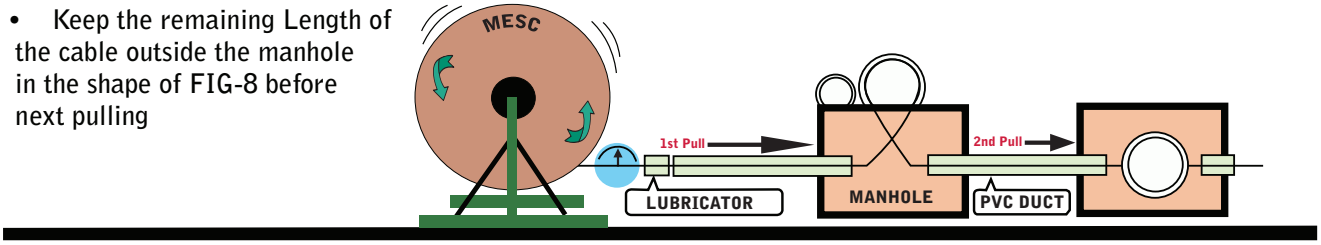
- Maintain proper direction
- Do not exceed the pulling force




- Do not pull with un-conventional methods
- Do not make sudden jerks while pulley
- Ensure use of proper rollers while pulling




- Keep the remaining Length of the cable outside the manhole in the shape of FIG-8 before next pulling




(Fig.8)

**1-** Recommended installation temperature : -50C to 550C

**2-** Never pull without pulling eye and do not exceed the prescribed max pulling tensions by continuous monitoring. Never pull out the cable in layers from a drum laid flat.

**3-** Pulling Tension (Kg) using pulling eye = 7.16x No. of conductors x Sq.mm of conductor or

**4-** Pulling Tension (Kg) using cable grip = 0.7(friction coefficient) x Jacket thickness( mm) x Cable Outer Dia(mm)

**5-** For long and heavy pulls, apply pulling lubricants liberally.

**6-** Maintain proper direction for unwinding the cable drum

**7-** Accelerate slowly and smoothly to constant pulling speed providing smooth speed control.

**8-** Ensure that the bending radius is minimum :
- Armoured & Un-Armoured Cables : 12 x Cable Overall Diameter
- Multilayer / Lead Sheath with Armored cable :.20 x Cable Overall Diameter
- Offshore Cable Braid Armored Cables : 8 x Cable Overall Diameter

**9-** Never subject it to sharp bends, leading to bird caging of armor and cracks.

**10-** Avoid pulling against sharp edges or contact with stones or other objects as it will lead to cracks in the outer sheath.

**11-** Use swivel tool in between pulling eye and pulling rope to avoid cable twisting.

**12-** Do not pull the cable directly from the sheath, ensure that the pulling force is distributed through the conductor or armor

# GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

## SPECIAL INSTRUCTIONS FOR LSHF/HFFR/LSF SHEATHED CABLES

### IDENTIFICATION OF DRUMS

These cables identified by one ▲ or two ▲▲ red triangular marks on cable flange indicating that the cable is not with PVC or PE Sheathed cable. Single ▲ means the cable is un-armoured and double means armoured ▲▲ cables with LSHF/HFFR/LSF sheath.

### IDENTIFICATION OF DRUMS

**1-**The cables should be stored in original packed condition and **avoiding direct exposure to sun light** it shall be stored under shade / tent / warehouse as far as possible.

**2-** Cables can be stored for a period of six months in original packed condition, After usage, the leftover cables length shall be packed as in original condition for further period of six months, and also cables can be stored under direct sunlight by covering the packed drums / re-packing the drums using tarpaulin cover .

**3-** Inherently these cables have lower tear strength property as compared to typical PVC/PE material, special care should be taken during installation to avoid any damage. Even a small cut on the LSHF sheath can result in sheath cracking, as it will easily extend due to lower tear strength property of LSHF sheath.

**4-** Use pay in rollers and corner rollers of a non-metallic material (e.g. Nylon or Teflon) at least every 3 to 4 meters while laying the cable.

**5-**If any pulling greases or lubricants are used, the installer must ensure compatibility with the sheath material.

**6-** Do not pull the cable directly from the sheath, ensure that the pulling force is distributed through the conductor or armor metallic parts, preferably with pulling eye or cable grip.

**7-**The cables should not come in contact with any hot surface and also recommended installation temperature shall not be exceeded .

**8-**When cable tray installation is used, avoid the sheath contact with any sharp objects. The requirement of minimum bending radius should be followed as given in page 4.

**9-** Any clamping device should not be applied directly on the outer sheath, there should be some cushion (for instance a rubber pad).

# GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

## INSTRUCTIONS FOR OFFSHORE CABLES

### STORAGE AND INSTALLATION (SHF2, SW4 SHEATHED CABLE)

**1-** Short term(6 to 12 months) storage is same as stated above, however medium term (minimum 2 years with an objective of 5 years) and long term (more than 5 years) storage should be indoor.

**2-** Place cable rollers on cable tray/ladder at every two-meter distance and ensure that cables do not scrape the tray during installation.

**3-** Proper cable rollers, angle rollers and feed rollers must be used.

**4-** Before commencing cable laying proper bends should be used, and should be free of any sharp edges.

**5-** If coiling and uncoiling is required in multiple places for long route cables, Sufficient space for coiling of cable should be find out before starting pulling.

**6-** Upon pulling all coiled cables to be preserved from direct sunlight by using Tarpaulin and the cable end to be sealed properly.

**7-** Cables may be laid / pulled by hand. Where mechanical pulling machines to be used, the operation must be uniform, continuous and with minimum interruptions. The recommended pulling tension must be set on tension cut out protection (If provided on machine and as required).

**8-** Cable shall be strapped by PVC coated SS cable Ties on Ladder/Tray at intervals not exceeding 400mm for vertical run and 1000mm for horizontal run.

**9-** Cable Passing through deck shall be protected by kick plates or pipe sleeve in case of single cable.

**10-** Instruments cables shall be routed away from electrical cables with required minimum spacing as per client project design specification.

MIDDLE EAST SPECIALIZED CABLES COMPANY

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