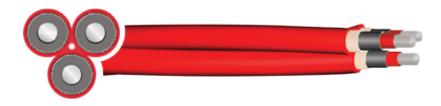


Electricity NorthWest Approved Triplex Cable - 11kV, XLPE, MDPE - 95mm to 300mm



ENW approved medium voltage aluminium power cable for connections from electrical grid to sub-main developments. Suitable for power networks, underground, outdoors and installation in cable ducting.

Key Features



Installation Guidelines

Should not be installed at temperatures below 0°C





Temperature Limits

Temperature Range: 0°C to +90°C

Construction

- Conductor: Solid Aluminium Conductors
- Insulation: Cross Linked polyethylene (XLPE)
- **Sheath**: Medium Density Polyethylene (MDPE)
- Longditudinal Water Blocking: Tape, Helically applied
- Sheath Colour: Red

Standards

 BS7870 4.10, BS EN 60228, UV Stabilised, DNO Cable approved for ENW use

Core Colours

Single Core Triplex



Electricity NorthWest Approved Triplex Cable - 11kV, XLPE, MDPE - 95mm to 300mm - Dimensions

| Reference | Conductor Size (mm2) | No Of Cores | Nominal Diameter | Conductor Type | Max Voltage Rating | Overall Diameter(mm) | Weight(Kg/Km) |
|------------------------|-------------------------|-------------|---------------------|-------------------|-----------------------|-------------------------|---------------|
| ENW11KVTRI P3X95AL | 95 | 3 | 12.16 | SOLID | 11KV | 57.83 | 2901 |
| ENW11KVTRI P3X185AL | 185 | 3 | 15.8 | SOLID | 11KV | 72.5 | 4060 |
| ENW11KVTRI P3X300AL | 300 | 3 | 20.5 | SOLID | 11KV | 81.4 | 5360 |

TRIPLEX CABLE - CURRENT CARRYING CAPACITY

| MAX VOLTAGE | NOMINAL CROSS SECTIONAL AREA | IN GROUND AMPS | IN DUCTS AMPS | IN AIR AMPS | |
|-------------|---------------------------------|----------------|---------------|---------------|--|
| RATING | (MM²) | SEE NOTE 1* | SEE NOTE 2** | SEE NOTE 3*** | |
| 11kV | 95 | 221 | 230 | 280 | |
| 11kV | 185 | 317 | 303 | 424 | |
| 11kv 300 | | 437 | 397 | 577 | |

Note 1* Ground Temperature = 20°C, Depth = 0.8m, Thermal resistivity of soil -1.5K.m/w

Note 2** As Note 1* but 1 cable per duct

Note 3*** Ambient Temperature = 30°C

TRIPLEX CABLE 11KV - ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA | MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C | MAXIMUM AC RESISTANCE OF CONDUCTOR AT 90°C | REACTANCE AT 50HZ | CAPACITANCE | 1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR | 1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN |
|---------------------------------|---|---|-------------------|-------------|---|---|
| (M M ²) | (OHMS/KM) | (OHMS/KM) | (OHMS/KM) | (µF/KM) | (kA) | (kA) |
| 95 | 0.32 | 0.411 | 0.12 | 0.32 | 8.9 | 5.3 |
| 185 | 0.164 | 0.211 | 0.11 | 0.41 | 17.4 | 10.3 |
| 300 | 0.1 | 0.13 | 0.13 | 0.5 | 28.3 | 10.3 |

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.

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