

N2XS(FL)2Y 18/30 (36)kV Cable

Medium voltage MDPE power cables for distribution networks. This cable is used extensively in the renewables and datacentre sectors. N2XS(FL)2Y cable is suitable for external installation. Cables can be fixed on cable trays, within conduits or fixed to walls and is suitable for burial in ducts. The cable has a UV Resistant outer sheath and three water blocking layers to make it water resistant

Key Features



Voltage Rating
18/30 (36)kV



Minimum Bending Radius
15 x Overall Diameter



Temperature Limits
Ambient Temperature: -20°C to +60°C

Conductor Operating Temperature:
+90°C

Short Circuit Temperature up to 5 sec:
250°C

Construction

- **Conductor:** Class 2 stranded copper conductor
 - **Conductor Screen:** Semi-Conductive material
 - **Insulation:** Cross Linked polyethylene (XLPE)
 - **Insulation Screen:** Semi-conductive material (bonded)
 - **Longitudinal Waterblocking:** Semi-conductive swellable tape
 - **Screen:** Copper wires and copper tape
 - **Waterblocking Tape:** Al/PET (Aluminium/Polyester) Tape bonded to sheath
 - **Tape:** Longitudinal Water Blocking Tape
 - **Outer Sheath:** Medium Density Polyethylene (MDPE)
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- **Sheath Colour:** Red or Black

Standards

- BS EN 60332-1-2
- UV Resistant: ISO 4892-3
- IEC 60228
- IEC 60502-2
- IEC 60332-1-2

N2XS(FL)2Y 18/30 (36)kV Cable - Dimensions

| Reference | Conductor Size (mm2) | Insulation Thickness (mm) | Sheath Thickness (mm) | Nominal Conductor Diameter | CWS(mm) | Overall Diameter(mm) | Weight(Kg/Km) |
|----------------------|----------------------|---------------------------|-----------------------|----------------------------|---------|----------------------|---------------|
| 18/30N2XS(FL)2Y1X50 | 50 | 7.5 | 1.9 | 8.5 | RM/16 | 32.0 | 1325 |
| 18/30N2XS(FL)2Y1X70 | 70 | 7.5 | 1.9 | 10.0 | RM/16 | 34.0 | 1530 |
| 18/30N2XS(FL)2Y1X95 | 95 | 7.5 | 2.0 | 11.5 | RM/16 | 36.5 | 1930 |
| 18/30N2XS(FL)2Y1X120 | 120 | 7.5 | 2.1 | 13.0 | RM/16 | 37.5 | 2295 |
| 18/30N2XS(FL)2Y1X150 | 150 | 8.0 | 2.2 | 15.0 | RM/25 | 39.5 | 2550 |
| 18/30N2XS(FL)2Y1X185 | 185 | 8.0 | 2.2 | 17.0 | RM/25 | 41.0 | 3065 |
| 18/30N2XS(FL)2Y1X240 | 240 | 8.0 | 2.3 | 19.0 | RM/25 | 44.0 | 3595 |
| 18/30N2XS(FL)2Y1X300 | 300 | 8.5 | 2.4 | 21.0 | RM/25 | 46.5 | 4300 |
| 18/30N2XS(FL)2Y1X400 | 400 | 8.5 | 2.5 | 24.0 | RM/35 | 49.5 | 5295 |
| 18/30N2XS(FL)2Y1X500 | 500 | 8.5 | 2.6 | 27.0 | RM/35 | 53.0 | 6320 |
| 18/30N2XS(FL)2Y1X630 | 630 | 8.5 | 2.75 | 30.5 | RM/35 | 57.0 | 7330 |

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