

## Northern Powergrid Approved (NPG) Triplex Cable - 11kV, XLPE, MDPE - 95mm<sup>2</sup> to 300mm<sup>2</sup>



### Description

NPG 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



**Voltage Rating**  
6.35kV / 11kV (12kV)



**Minimum Bending Radius**  
12 x Overall Diameter



**Temperature Limits**  
Temperature Range: 0°C to +90°C

### Core Colours

#### Single Core Triplex

Brown Black Grey Tapes

### Standards

- DNO Cable approved for NPG Use
- BS 7870-4.10
- BS EN/IEC 60228

### Construction

- **Conductor:** Solid Aluminium Conductors
- **Conductor Screen:** Bonded semi conductive material
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Insulation Screen:** Semi conducting compound
- **Metallic Screen:** Copper Wires plus Copper tape
- **Longitudinal Water Blocking:** Tape, Helically applied
- **Sheath:** Medium Density Polyethylene (MDPE)
- **Sheath Colour:** Red: UV Stabilised

### QA Lab

#### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



#### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



### Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



#### ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

#### ecovadis

Northern Powergrid Approved (NPG) Triplex Cable - 11kV, XLPE, MDPE - 95mm<sup>2</sup> to 300mm<sup>2</sup> - Dimensions

| Reference          | Conductor Size (mm2) | No Of Cores | Nominal Diameter | Conductor Type | Max Voltage Rating | Overall Diameter(mm) | Weight(Kg/Km) |
|--------------------|----------------------|-------------|------------------|----------------|--------------------|----------------------|---------------|
| NPG11KVTRIP3X95AL  | 95                   | 3           | 12.16            | SOLID          | 11KV               | 57.83                | 2960          |
| NPG11KVTRIP3X185AL | 185                  | 3           | 15.8             | SOLID          | 11KV               | 72.5                 | 4020          |
| NPG11KVTRIP3X300AL | 300                  | 3           | 20.5             | SOLID          | 11KV               | 81.4                 | 5310          |



# TRIPLEX CABLE – CURRENT CARRYING CAPACITY

| MAX VOLTAGE<br>RATING | NOMINAL CROSS<br>SECTIONAL AREA<br><br>(MM <sup>2</sup> ) | IN GROUND AMPS | IN DUCTS AMPS | IN AIR AMPS   |
|-----------------------|---|----------------|---------------|---------------|
|                       |   | 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<br>SECTIONAL AREA | MAXIMUM DC RESISTANCE OF<br>CONDUCTOR AT 20°C | MAXIMUM AC RESISTANCE OF<br>CONDUCTOR AT 90°C | REACTANCE AT 50HZ | CAPACITANCE | 1 SECOND SHORT CIRCUIT<br>RATING OF CONDUCTOR | 1 SECOND SHORT CIRCUIT<br>RATING OF METALLIC SCREEN |
|---------------------------------|---|---|-------------------|-------------|---|---|
| (MM <sup>2</sup> )              | (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.