



NPG 6.35/11 (12)kV Single Core (Triplex) Unarmoured Aluminium Cable



APPLICATION

Medium voltage DNO aluminium power cable approved to Northern Powergrid (NPG) specification and manufactured by G81 suppliers for connections from existing grid to new sub-main developments.

CHARACTERISTICS

Voltage Rating (U₀/U)
6.35/11 (12)kV

Temperature Rating
0°C to +90°C

CONSTRUCTION

Conductor

Class 1 Solid Aluminium Conductor

Conductor Screen

Fully bonded semi-conductive compound

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive compound

Screen

Copper Wires and Equalising Tape

Separator

Binding tape

Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

● Red

STANDARDS

BS 7870-4.10



ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



8578



FS 672069

EMS 672067

OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



KM 634267





DIMENSIONS

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | NOMINAL AREA OF METALLIC SCREEN mm ² | NOMINAL OVERALL DIAMETER OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) mm ² | NOMINAL WEIGHT OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) kg | MINIMUM BENDING RADIUS mm | MAXIMUM PULLING TENSION N |
|----------------|---------------|---|--|--|---|------------------------------|------------------------------|
| D306013RD000 | 3x1 (Triplex) | 95 | 35 | 62 | 2960 | 920 | 8550 |
| D306016RD000 | 3x1 (Triplex) | 185 | 35 | 71 | 4020 | 1060 | 16650 |
| D306018RD000 | 3x1 (Triplex) | 300 | 35 | 81 | 5310 | 1220 | 27000 |

ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA mm ² | MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km | MAXIMUM AC RESISTANCE OF CONDUCTOR AT 20°C ohms/km | REACTANCE AT 50HZ ohms/km | CAPACITANCE µf/km | 1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR kA | 1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN kA |
|---|---|---|------------------------------|----------------------|--|--|
| 95 | 0.320 | 0.411 | 0.131 | 0.310 | 8.9 | 5.0 |
| 185 | 0.164 | 0.211 | 0.118 | 0.400 | 17.4 | 5.0 |
| 300 | 0.100 | 0.130 | 0.111 | 0.490 | 28.3 | 5.0 |

CURRENT CARRYING CAPACITY

| NOMINAL CROSS SECTIONAL AREA mm ² | DIRECT BURIED Amps | IN DUCTS Amps | IN AIR Amps |
|---|-----------------------|------------------|----------------|
| 95 | 231 | 208 | 290 |
| 185 | 331 | 300 | 437 |
| 300 | 339 | 309 | 468 |

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.