

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



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.

CONSTRUCTION

Conductor

Class 1 Solid Aluminium Conductor

Insulation

XLPE (Cross-Linked Polyethylene)

Screen

Copper Wires and Equalising Tape

Separator

Binding tape

Sheath

MDPE (Medium-Density Polyethylene)

CABLE STANDARDS

BS7870-4.10, BS EN 60228



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)(U_m)

6.35/11 (12)kV

Temperature Rating

0°C to +90°C

Sheath Colour

● Red

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 kg
D306013RD000	3x1 (Triplex)	95	35	62	2960	750	2850
D306016RD000	3x1 (Triplex)	185	35	71	4020	855	5550
D306018RD000	3x1 (Triplex)	300	35	81	5310	975	7300

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