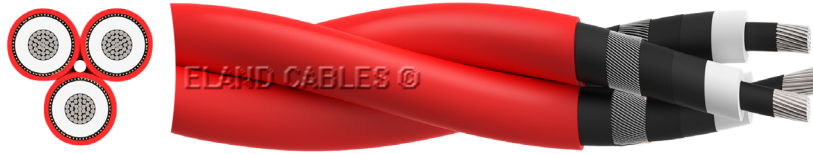




UKPN 6.35/11 (12)kV Single Core (Triplex) Unarmoured Aluminium Conductors



APPLICATION

Medium voltage DNO aluminium power cable approved to UK Power Networks (UKPN) 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

Stranded or Solid Aluminium Conductor

Conductor Screen

Fully bonded semi-conductive compound

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductive compound

Screen

Aluminium Wires

Separator

Binding Tape

Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

● Red

STANDARDS

IEC 60502-2



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	NOMINAL WEIGHT OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) kg	MINIMUM BENDING RADIUS mm	MAXIMUM PULLING TENSION N
D106013RD000	3x1 (Triplex)	95	58	59.0-65.5	2400	920	8550
D106016RD000	3x1 (Triplex)	185	115	70.8-75.0	4050	1060	16650
D106018RD000	3x1 (Triplex)	300	115	81.5-84.6	5300	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	0.056	0.381	9.2	7.1
185	0.164	0.211	0.054	0.488	17.9	12.9
300	0.100	0.130	0.053	0.594	28.8	12.9

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	DIRECT BURIED Amps	IN DUCTS Amps	IN AIR Amps
95	244	227	232
185	353	328	364
300	461	429	508

Current rating conditions:
 Ground temperature : 15°C
 Ambient air temperature : 25°C
 Depth of burial (to top of cable) : 450mm
 thermal resistance of soil : 1.2oC m/W

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.