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

APPLICATION

Medium voltage DNO aluminium power cable approved to Electricity North West (ENW) specification and manufactured by G81 suppliers for connections from existing grid to new sub-main developments.

CHARACTERISTICS

Voltage Rating (Uo/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.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578
bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 Occupational Health and Safety Management 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™.

bsi. RoHS Trusted KITEMARK™ KM 634267
RoHS

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL AREA OF METALLIC SCREEN mm²	NOMINAL OVERALL DIAMETER OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) mm²	NOMINAL WEIGHT OF CABLE (OR TRIPLEX GROUP IF APPLICABLE) kg	MINIMUM BENDING RADIUS mm	MAXIMUM PULLING TENSION kg
D406013RD000	3x1 (Triplex)	95	35	62	2960	920	8550
D406016RD000	3x1 (Triplex)	185	35	71	4020	1060	16650
D406018RD000	3x1 (Triplex)	300	35	81	5310	1220	2700

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	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 mm²	DIRECT BURIED Amps	IN DUCTS Amps	IN AIR Amps
95	231	208	290
185	331	300	437
300	339	309	468

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