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

APPLICATION

Medium voltage DNO aluminium power cable approved to Scottish Power Energy Networks (SPEN) 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 Copper Tape

Separator
Binding tape

Sheath
MDPE (Medium-Density Polyethylene)

Sheath Colour
Red

STANDARDS

BS 7870-4.10, SP-PS-076

SP ENERGY NETWORKS

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 Testing laboratory accreditation 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 N
D510113RD000	1	95	35	27	980	510	2850
D510116RD000	1	185	35	32	1320	605	5550
D510118RD000	1	300	35	37	1750	700	9000

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	0.119	0.31	8.9	5.0
185	0.164	0.211	0.107	0.40	17.5	5.0
300	0.100	0.130	0.100	0.49	28.3	5.0

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm²	DIRECT BURIED Amps	IN DUCTS Amps	IN AIR Amps
95	255	226	296
185	368	326	446
300	481	425	605

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