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

APPLICATION

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

CONSTRUCTION

Conductor
Stranded or Solid Aluminium Conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Screen
Copper Wires and Equalising Copper Tape

Separator
Binding Tape

Sheath
MDPE (Medium Density Polyethylene)

CABLE STANDARDS

BS 7870-4.10, ES 02-0940, 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 (Uo/U)(Um)
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 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
D220115RD000	1	150	35	31	1160	620	4500
D220120RD000	1	500	35	44	2390	880	15000
D220121RD000	1	630	35	48	2900	960	18900
D220130RD000	1	800	35	51	3340	1020	24000

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
150	0.206	0.265	0.106	0.39	13.8	4.8
500	0.0605	0.0804	0.09	0.66	46	4.8
630	0.0469	0.0639	0.087	0.74	57.9	4.8
800	0.0367	0.0523	0.085	0.86	73.6	4.8

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm²	DIRECT BURIED Amps	IN DUCTS Amps	IN AIR Amps
150	353	315	380
500	679	570	810
630	756	640	930
800	857	710	1070

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