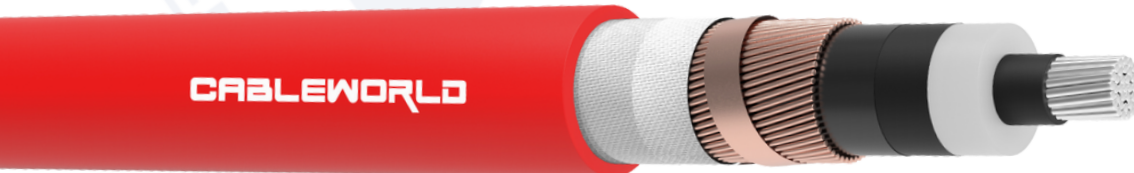
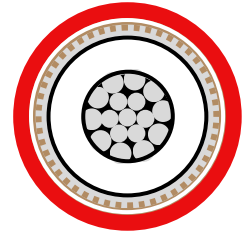




SPEN Single Core Unarmoured Aluminium Conductors - 6.35/11 (12)kV

Medium Voltage Cable DNO Power Cable



DESCRIPTION

Conductor: Class 1 Solid Aluminium Conductor, **Conductor Screen:** Fully bonded Semi-conductive material, **Insulation:** XLPE (Cross-Linked Polyethylene), **Insulation Screen:** Semi-conductive material, **Screen:** Copper wires and Equalising Copper Tape, **Separator:** Binding Tape, **Outer Sheath:** MDPE (Medium Density Polyethylene) in Red.

APPLICATION

Medium voltage aluminium power cable approved to Scottish Power Energy Networks (SPEN) specifications, manufactured by G81-authorized suppliers for linking the existing grid to new sub-main developments.

TECHNICAL DATA

Voltage Rating Uo/U:	6.35/11 (12)kV
Temp. Rating:	0°C to +90°C
Standards/Approvals:	BS 7870-4.10, SP-PS-076 SP Energy Networks

TDS 1 OF 2



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

Medium Voltage Cable DNO Power Cable

No. of Cores	Nom. CSA	Nom. Area of Metallic Screen	Nom. OD of Cable	Nom. Cable Weight	Min. Bend. Radius	Max. Pulling Tension
	mm ²	mm ²	mm	Kg/Km	mm	N
1	95	35	27	980	510	2850
1	185	35	32	1320	605	5550
1	300	35	37	1750	700	9000

ALL FIGURES QUOTED ARE APPROXIMATE

Nom. CSA	Max. DC Res. of Cond. at 20°C	Max. AC Res. of Cond. at 20°C	Reactance at 50Hz	Capacitance	1s S.C. Rating of Cond.	1s S.C. Rating of Metallic Screen	Current Carrying Capacity A		
mm ²	mH/Km	Ω/Km	μF/Km	μF/Km	kA	kA	Buried	In Ducts	In Air
95	0.320	0.411	0.119	0.31	8.9	5.0	255	226	296
185	0.164	0.211	0.107	0.40	17.5	5.0	368	326	446
300	0.100	0.130	0.100	0.49	28.3	5.0	481	425	605

ALL FIGURES QUOTED ARE APPROXIMATE

Trefoil formation

Ground Temperature: 15°C
Soil thermal resistivity: 1.2K.m/W
Depth: 0.6m
Air temperature 25°C

TDS 2 OF 2

E&OE. Manufacturers reserve the right to amend the specification without prior notice.

Head Office (Bolton): • Tel: +44 (0) 1942 840 200 • E-Mail: sales@cable-world.co.uk

London Branch: • Tel: +44 (0) 203 960 9389 • E-Mail: sales.london@cable-world.co.uk



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