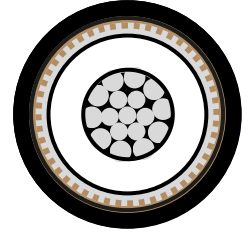




SSE Single Core Unarmoured Aluminium Conductors - 19/33 (36)kV

Medium Voltage Cable DNO Power Cable



DESCRIPTION

Conductor: Class 2 Stranded Aluminium, **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 Black.

APPLICATION

Medium voltage aluminium power cable approved to Scottish & Southern Electricity (SSE) specifications, manufactured by G81-authorized suppliers for connecting the existing grid to new sub-main developments.

TECHNICAL DATA

Voltage Rating U₀/U:	19/33 (36)kV
Temp. Rating:	0°C to +90°C
Standards/Approvals:	BS 7870-4.10, IEC 60502-1 SSE

TDS 1 OF 2



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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	300	35	47	2250	940	9000
1	400	35	50	2259	1000	12000
1	500	35	53	3010	1060	15000
1	630	35	57	3570	1140	18900
1	800	35	61	4060	1120	24000

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
300	0.1000	0.129	0.113	0.26	27.6	4.8	532	460	600
400	0.0778	0.101	0.109	0.29	36.8	4.8	606	520	700
500	0.0605	0.0797	0.104	0.32	46	4.8	679	570	820
630	0.0459	0.063	0.100	0.350	57.9	4.8	768	650	940
800	0.0367	0.0509	0.095	0.400	73.6	4.8	857	770	1070

ALL FIGURES QUOTED ARE APPROXIMATE

TDS 2 OF 2

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

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