Scottish & Southern Energy Approved Power Cable (SSE) - 3 core Aluminium 11kV, XLPE, MDPE - 95mm² to 300mm²



Description

SSE approved cable, aluminium power cable, 11kV medium voltage, XLPE MDPE, power networks, sub-main connections, underground installation, coloured core identification, UV exposure note, 95mm² to 300mm²

Key Features

Voltage Rating
6.35kV / 11kV (12kV)

Minimum Bending Radius
Fixed: 12 x Overall Diameter
Flexing:15 x Overall Diameter

Flame Retardancy
BS EN/IEC 60332

Temperature Limits
Temperature Range: 0°C to +90°C

Core Colours

Standards

- DNO approved for SSE
- BS EN/IEC 60332
- BS EN/IEC 60228
- BS 7870 4.20

Construction

- **Conductor**: Class 1 solid or class 2 stranded aluminium
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Screen**: Copper Wires & Helical Equalising Copper Tape
- **Outer Sheath**: Medium Density Polyethylene (MDPE)
- **Sheath Colour**: Red

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory
31196

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

Scottish & Southern Energy Approved Power Cable (SSE) - 3 core Aluminium 11kV, XLPE, MDPE - 95mm² to 300mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
SSE11KVMDPE3X95AL	95	3	51.8	2540
SSE11KVMDPE3X150AL	150	3	62.5	3700
SSE11KVMDPE3X240AL	240	3	71.1	4870
SSE11KVMDPE3X300AL	300	3	75.8	5680

SSE BS7870 11KV SAC MDPE ELECTRIC CHARACTERISTICS

MAX VOLTAGE RATING	NOMINAL CROSS SECTIONAL AREA (MM2)	IN GROUND AMPS	IN DUCTS AMPS	IN AIR AMPS
11kV	70	199	168	217
11kV	150	303	259	344
11kV	240	399	344	468
11kV	300	450	390	535

Electrical Data:
Maximum conductor operating temperature:90°C
Maximum screen operating temperature:80°C
Maximum conductor temperature during S.C:250°C
Bending Radius: 15 x Diameter Fixed.
Bending Radius: 20 X Diameter Installation

Laying conditions at trefoil formation are as below:
Soil thermal resistivity:1.2°K. m/W
Burial depth:0.6m
Ground temperature:15°C
Air temperature:25°C
Frequency:50Hz

SPEN BS7870 11KV SAC LLDPE SCREENED ELECTRIC CHARACTERISTICS

CONDUCTOR SIZE	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C	MAXIMUM AC RESISTANCE OF CONDUCTOR AT 90°C	INDUCTANCE	REACTANCE AT 50HZ	CAPACITANCE	1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR
(MM^2)	Ω/KM	Ω/KM	Mh/KM	Ω/KM	(µF/KM)	kA
70	0.443	0.569	0.4	0.101	0.25	6.6
150	0.206	0.265	0.35	0.091	0.33	14.2
240	0.125	0.161	0.33	0.085	0.41	22.7
300	0.1	0.13	0.31	0.084	0.44	28.3

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