

SSE Approved Power Cable - 11kV, XLPE, LLDPE - 95mm² to 300mm²



Description

SSE approved medium voltage aluminium power cable for connections from electrical grid to sub-main developments. Suitable for power networks, underground, outdoors and installation in cable ducting.

Please note: the red outer sheath can be prone to fading when exposed to UV rays.

Key Features



Voltage Rating
6.35kV / 11kV (11kV)



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

3 Core - Brown Black Grey Tapes

Standards

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

Construction

- **Conductor:** Class 2 Stranded Circular Compacted Aluminium Conductor
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Insulation Screen:** Semi conducting compound
- **Screen:** Copper Wires & Helical Equalising Copper Tape
- **Outer Sheath:** Linear Low-Density Polyethylene (LLDPE)
- **Sheath Colour:** Red

QA Lab

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. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



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

ecovadis

SSE Approved Power Cable - 11kV, XLPE, LLDPE - 95mm² to 300mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
SSE11KVLLDPE3X95AL	95	3	51.8	2540
SSE11KVLLDPE3X150AL	150	3	62.5	3700
SSE11KVLLDPE3X240AL	240	3	71.1	4870
SSE11KVLLDPE3X300AL	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: $1 \pm 2^{\circ}\text{K. m/W}$
 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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