

BS7870 Triplex Aluminium Power Cable 11kV - XLPE, MDPE - 70mm to 300mm



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.

Key Features



Installation Guidelines

Should not be installed at temperatures below 0°C



Voltage Rating

11000V



Minimum Bending Radius

As Per Manufacturers Datasheet



Temperature Limits

Ambient Temperature: -15°C to + 90°C

Construction

- **Conductor:** Stranded Aluminium Conductors
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Metallic Screen:** Copper Wires plus Copper tape
- **Sheath:** Medium Density Polyethylene (MDPE)
- **Sheath Colour:** Red

Standards

- BS7870 4.10, UV Stabilised

Core Colours

Brown

Black

Grey

tapes

BS7870 Triplex Aluminium Power Cable 11kV - XLPE, MDPE - 70mm to 300mm - Dimensions

Reference	Conductor Size (mm ²)	No Of Cores	Stranding(mm)	Nominal Conductor Diameter	Diameter in Triplex Formation	Conductor Type	Overall Diameter(mm)	Weight(Kg/Km)
11KVTRIP3X95 AL	95	3	12.16	12.16	57.83	STRANDED	57.83	2901
11KVTRIP3X185 AL	185	3	0	15.8	72.5	STRANDED	72.5	4060
11KVTRIP3X300 AL	300	3	0	20.5	81.4	STRANDED	81.4	5360

TRIPLEX CABLE 11KV – ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C	MAXIMUM AC RESISTANCE OF CONDUCTOR AT 90°C	REACTANCE AT 50HZ	CAPACITANCE	1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR	1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN
(MM ²)	(OHMS/KM)	(OHMS/KM)	(OHMS/KM)	(µF/KM)	(kA)	(kA)
95	0.32	0.411	0.12	0.32	8.9	5.3
185	0.164	0.211	0.11	0.41	17.4	10.3
300	0.1	0.13	0.13	0.5	28.3	10.3

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