

## BS6622 3 Core Aluminium Mains Cable 11kV - XLPE, SWA, PVC - 95mm to 300mm



11kV 3 core aluminium mains power cable is most suitable for use in power networks. For installation underground, outdoors and in cable ducting. Please note: the red outer sheath can be prone to fading when exposed to UV rays.

### Key Features



#### Installation Guidelines

Should not be installed at temperatures below 0°C or above +60°C



#### Voltage Rating

6350/11000 Volts



#### Minimum Bending Radius

As Per Manufacturers Datasheet



#### Flame Retardancy

BS EN 60332

### Construction

- **Conductor:** Plain stranded aluminium conductors
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Bedding:** PVC Bedding (Extruded)
- **Screen:** Each core copper tape screened
- **Sheath:** PVC (Polyvinyl Chloride) outer sheath
- **Tape:** Semi-conducting tape insulated
- **Armour:** Galvanised Steel Wire Armour (SWA)

### Standards

- BS6622, IEC 60502, Flame Propagation: BS EN 60332

### Core Colours

3 core

Brown

Black

Grey

Tapes

# BS6622 3 Core Aluminium Mains Cable 11kV - XLPE, SWA, PVC - 95mm to 300mm - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Nylon Cleat Size
10115RD	95	3	19/2.52	62.6	5800	TC10
10116RD	120	3	37/2.03	66.6	6400	TC11
10117RD	150	3	34/2.25	68.6	7000	TC11
10118RD	185	3	37/2.52	74.1	7800	TC12
10119RD	240	3	37/2.96	81.2	9800	TC14
10120RD	300	3	61/2.52	86.8	11000	TC15

11KV ALUMINIUM 3 CORE ELECTRICAL CHARACTERISTICS											
CONDUCTOR SIZE	MAX DC RESISTANCE AT 20°C	CONDUCTOR AC RESISTANCE AT MAX OPERATING TEMPERATURE AND 50hz	CAPACITANCE	CHARGING CURRENT	DIELECTRIC LOSSES	RESISTANCE AT 50HZ	CONDUCTOR S.C.C FOR 1 SEC	SCREEN S.C.C FOR 1 SEC	CURRENT RATING		
									LAID IN GROUND	LAID IN DUCT	LAID IN FREE AIR
MM²	( Ω/km)	(Ω/km)	mF/km	(A/Km)	(W/Km)	(Ω/km)	(KA)	(KA)	AMPS	AMPS	AMPS
95	0.193	0.247	0.398	0.662	16.81	0.099	13.585	1	204	180	238
120	0.153	0.196	0.435	0.723	18.37	0.096	17.16	1.1	232	206	274
150	0.124	0.159	0.477	0.793	20.15	0.092	21.45	1.2	259	231	309
185	0.0991	0.128	0.516	0.859	21.81	0.089	26.455	1.2	293	262	354
240	0.0754	0.098	0.579	0.964	24.47	0.086	34.32	1.4	338	304	415
300	0.0601	0.078	0.642	1.068	27.13	0.084	42.9	1.5	380	343	472

**Electrical Data:**  
Maximum conductor operating temperature: 90°C  
Maximum screen operating temperature: 80°C  
Maximum conductor temperature during S.C: 250°C

**Laying conditions at trefoil formation are as below:**  
Soil thermal resistivity: 120°C Cm/Watt  
Burial depth: 0.5m  
Ground temperature: 15°C  
Air temperature: 25°C  
Frequency: 50Hz

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.

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