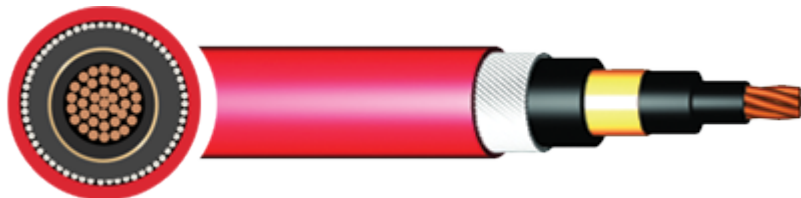


BS6622 Single Core Mains Cable 11kV - XLPE, AWA, PVC - 50mm to 630mm



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



Installation Guidelines

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



Voltage Rating

6350/11000 Volts
Tested To Voltage And Duration of BS 6622



Minimum Bending Radius

As Per Manufacturers Datasheet



Flame Retardancy

BS EN 60332

Construction

- **Conductor:** Stranded Plain Annealed Circular Compacted Copper Conductors
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Bedding:** Polyvinyl Chloride (PVC)
- **Metallic Screen:** Individual or overall copper tape screen
- **Sheath:** PVC (Polyvinyl Chloride) outer sheath
- **Separator:** Copper Tape with 10% overlap
- **Armour:** Aluminium Wire Armour (AWA)

Standards

- Flame propagation to BS EN60332, BS6622, IEC 60502

Core Colours

Sheath Colour: Red or Black

Single Core

Brown

BS6622 Single Core Mains Cable 11kV - XLPE, AWA, PVC - 50mm to 630mm - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Trefoil Cleat	Nylon Cleat Size
10001	50	1	19/1.78	28.7	1200	376AC04	12
10002	70	1	19/2.14	30.5	1461	376AC05	14
10003	95	1	19/2.52	32.2	1761	376AC06	14
10004	120	1	37/2.03	33.8	2049	376AC07	14
10005	150	1	37/2.25	36.2	2451	376AC08	16
10006	185	1	37/2.52	37.9	2848	376AC09	16
10007	240	1	61/2.25	40.4	3470	376AC11	16
10008	300	1	61/2.52	42.6	4103	376AC12	18
10009	400	1	61/2.85	45.6	4995	376AC14	18
10010	500	1	61/3.20	50	6320	376AC17	20
10011	630	1	127/2.52	54	7840	376AC19	TC9

11KV SINGLE 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 50-HZ	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
70	0.268	0.342	0.303	0.605	15.35	0.127	10.01	0.3	277	227	313
95	0.193	0.247	0.332	0.662	16.81	0.122	13.585	0.3	329	277	376
120	0.153	0.196	0.362	0.723	18.37	0.119	17.16	0.3	370	308	430
150	0.124	0.159	0.397	0.793	20.15	0.115	21.45	0.4	412	345	484
185	0.0991	0.128	0.43	0.859	21.81	0.111	26.455	0.4	460	390	546
240	0.0754	0.098	0.483	0.964	24.47	0.107	34.32	0.4	520	451	629
300	0.0601	0.078	0.535	1.068	27.13	0.103	42.9	0.5	571	507	708
400	0.047	0.062	0.592	1.181	30	0.101	57.2	0.5	609	564	777
500	0.0366	0.049	0.666	33.76	33.76	0.097	71.5	0.6	661	631	863
630	0.0283	0.039	0.76	1.516	38.51	0.095	90.09	0.6	707	698	945
800	0.0221	0.032	0.849	1.694	43.03	0.092	114.4	0.7	750	764	1032

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: 50-Hz

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.

For more information contact: 01642 241 133

