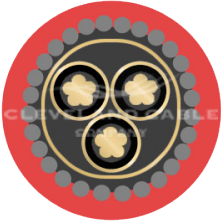


BS6622 11KV 3 CORE COPPER SCREENED PVC CABLE



APPLICATION

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.

CABLE STANDARDS

BS6622

IEC 60502

Flame propagation to BS EN60332

CONSTRUCTION

Conductor: Stranded Plain Annealed Circular Compacted Copper Conductors

Insulation: Cross Link Polyethylene (XLPE)

Metallic Screen: Individual or overlapped copper tape screen

Bedding: Polyvinyl Chloride (PVC)

Separator: Copper Tape with 10% overlap

Armouring: Galvanised Steel Wire Armour

Sheath: PVC outer sheath

Sheath Colour: ■ Red ■ Black

CHARACTERISTICS

Voltage Rating: 6350/11000 Volts (12KV)
Tested to Voltage and Duration of BS 6622

Temperature Rating: -15°C to +90°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

3 Core: ■ Brown ■ Black ■ Grey Tape

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

BS6622 11KV 3 CORE COPPER SCREENED PVC CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO OF CORES	WEIGHT (KG/KM)	APPROX OVERALL DIAMETER (MM)			NYLON CLEAT SIZE
					UNDER ARMOUR	OVER ARMOUR	OVERALL MM	
11KV XLPE3X25RD	25	7/2/14	3	4300	48.8	44.0	48.8	2.0
11KV XLPE3X35RD	35	19/1/53	3	4491	53.5	46.6	51.6	2.0
11KV XLPE3X50RD	50	19/1/78	3	5105	39	49.4	54.6	TC9
11KV XLPE3X70RD	70	19/2/14	3	6019	41.6	53.1	58.5	TC9
11KV XLPE3X95RD	95	19/2/52	3	7148	44.4	57.0	62.6	TC10
11KV XLPE3X120RD	120	37/2/03	3	8199	48.1	60.6	66.6	TC11
11KV XLPE3X150RD	150	37/2/25	3	9274	52	63.6	69.8	TC11
11KV XLPE3X185RD	185	37/2/52	3	10706	55.6	67.7	74.1	TC12
11KV XLPE3X240RD	240	61/2/25	3	13740	58.6	74.4	81.2	TC14
11KV XLPE3X300RD	300	61/2/52	3	16051	62.7	79.8	87.0	TC14
11KV XLPE3X400RD	400	61/2/85	3	19095	62.7	79.8	87.0	TC14

BS6622 11KV 3 CORE COPPER SCREENED PVC CABLE – ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	MAXIMUM CONDUCTOR DC RESISTANCE AT (20°C Ω/Km)	CONDUCTOR AC RESISTANCE AT MAX OPERATING TEMPERATURE AND 50HZ (20°C Ω/KM)	CAPACITANCE mF/Km	CHARGING CURRENT (A/Km)	DIELECTRIC LOSSES (W/Km)	RESISTANCE AT 50HZ (Ω/KM)	CONDUCTOR S.C.C FOR 1 SEC (KA)	SCREEN S.C.C FOR 1 SEC (KA)	CURRENT RATING		
									LAI D IN GROUND A	LAI D IN DUCT A	LAI D IN FREE AIR A
50	0.387	0.494	0.316	0.525	13.33	0.109	7.15	0.8	214	170	228
70	0.268	0.342	0.363	0.605	15.35	0.102	10.01	0.9	263	211	285
95	0.193	0.247	0.398	0.662	16.81	0.099	13.585	1	313	253	342
120	0.153	0.196	0.435	0.723	18.37	0.096	17.16	1.1	354	286	392
150	0.124	0.159	0.477	0.793	20.15	0.092	21.45	1.2	397	321	444
185	0.0991	0.128	0.516	0.859	21.81	0.089	26.455	1.2	446	365	504
240	0.0754	0.098	0.579	0.964	24.47	0.086	34.32	1.4	511	421	589
300	0.0601	0.078	0.642	1.068	27.13	0.084	42.9	1.5	569	474	667
400	0.047	0.062	0.71	1.181	30.00	0.081	57.2	1.6	634	532	754

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

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.