

3 Core Medium Voltage Power Cable

BS6622 Cu/XLPE/CTS/PVC/SWA/PVC 6.36/11kV

Cable Application

Cu/XLPE/CTS/PVC/SWA/PVC 11kV medium voltage power cable may be used for power networks, in fixed installation outdoors, in cable ducts, or directly in the ground. The cable consists of a Class 2 stranded copper conductor, semi conductive conductor screen, XLPE insulation, semi conductive insulation screen, plain copper tape screen for each core, PVC bedding, galvanized steel wire armour and red PVC outer sheath. 6350/11000 volts to BS6622 and IEC 60502-2, flame retardant to IEC 60332-1.

Technical Information

Conductor Material:	Copper
Conductor identification:	Coloured tapes under screen
Conductor Shape:	Circular
Conductor Flexibility:	Stranded class 2
Material of the Inner Semi-conductor:	Semi-conducting compound
Insulation:	XLPE (Chemical)
Armour Type:	Galvanized steel wires
Screen:	Bare Copper
Outer Sheath:	PVC
Inner Sheath:	PVC
Material of the External Semi-conduct:	Extruded strippable
Colour:	Red
Lead Free:	Yes
Rated Voltage Uo/U (Um):	6350/11000V to BS6622 & IEC 60502-2
Installation Temperature:	Minimum: 0°C • Maximum: 60°C
Installation Type:	Direct burial or in ducts
Operating Temperature:	Maximum: 90°C
Short-circuit Maximum Conductor Temperature:	250°C
Flame Retardant:	IEC 60332-1
Bending Radius:	12 x Ø

Part number	Cross section mm²	Stranding mm	Approx weight kg/km	Approx overall diameter	Gland size mm	Single cleat	Nom. Max. DC-resist conductor 20°C ohm/km	Current rating laid direct amp
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3 Core: Brown, Black & Grey Tapes

11KVPVC3X16	3 x 16	7/1.70	3,440	44.3	40	1.8	1.15	119
11KVPVC3X25	3 x 25	7/2.14	4,060	48.5	50	2	0.727	152
11KVPVC3X35	3 x 35	7/2.52	4,495	50.5	50	R9	0.524	181
11KVPVC3X50	3 x 50	19/1.78	5,115	53.0	63s	R9	0.387	213
11KVPVC3X70	3 x 70	19/2.14	6,035	56.8	63s	R10	0.268	260
11KVPVC3X95	3 x 95	19/2.52	7,180	61.3	63	R10	0.193	309
11KVPVC3X120	3 x 120	37/2.03	8,280	65.1	75s	R11	0.153	349
11KVPVC3X150	3 x 150	37/2.25	9,325	66.8	75s	R11	0.124	390

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3 Core: Brown, Black & Grey Tapes

11KVPVC3X185	3 x 185	37/2.52	10,740	72.3	75	R12	0.0991	436
11KVPVC3X240	3 x 240	61/2.52	13,820	79.3	90	R14	0.0754	499
11KVPVC3X300	3 x 300	61/2.85	16,120	84.2	90	R15	0.0754	553
11KVPVC3X400	3 x 400	61/3.20	19,350	92.4	-	R15	0.0470	619

On request the cable is available with a black polyethylene (PE) outer sheath. A MMQ and manufacturing lead-time may apply.

Also available in a low smoke halogen free version.