

BS 6622 XLPE MDPE 6.35/11 (12)kV Cable



APPLICATION

Power cables for power networks, underground and in cable ducting. Suitable for direct burial.

Voltage Rating U_0/U (Um)

6.35/11 (12)kV

Temperature Rating

Fixed: 0°C to +90°C

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Minimum Bending Radius

12 x overall diameter (10 x overall diameter where bends are positioned adjacent to a joint or terminations provided that the bending is carefully controlled by the use of a former)

STANDARDS

IEC 60502-2, EN 60228

Low Smoke Zero Halogen to: IEC 60754-1/2, IEC 61034-2

Flame Retardant: IEC 60332-3-24 Cat C, IEC 60332-1-2

UV Resistant: ISO 4892-3

Abrasion and Tear Resistant: EN 60229-4.1

Impact rated to: AG2 EN 60364-5.51

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

Class 2 Stranded Copper Conductor

Conductor Screen

Semi-conductiveXLPE(Cross-Linked Polyethylene)

Insulation

XLPE (Cross-Linked Polyethylene)

Insulation Screen

Semi-conductiveXLPE(Cross-Linked Polyethylene)

Metallic Screen

Individual copper wire screen

Filler

PET (Polyethylene Terephthalate) fibres

Separator

Binding tape

Bedding

PVC (Polyvinyl Chloride)

Armour

SWA (Steel Wire Armoured)

Outer Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

● Black

DIMENSIONS

SHEATH COLOUR	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA	NOMINAL DIAMETER mm			NOMINAL WEIGHT
		mm2	Under Armour	Over Armour	Overall	kg/km
Black	3	185	64.4	69.4	76	12600

ELECTRICAL CHARACTERISTICS

Class 2 Stranded Conductors for Single Core and Multi-Core Cables									
NOMINAL CROSS SECTIONAL AREA	MINIMUM NO. OF WIRES IN CONDUCTOR						MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km		
	Circular		Circular Compacted		Shaped		Annealed Copper Conductor		
mm2	Cu	Al	Cu	Al	Cu	Al	Plain Wires		
185	37	37	30	30	30	30	0.0991		

Copper Conductor Dimensions and Current Carrying Capacity							
NO. OF CORES	NOMINAL CROSS SECTIONAL AREA	CONTINUOUS CURRENT RATING Amps					
		In Ground		In Ducts		In Air	
		Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
3	185	430	430	370	370	490	490

DE-RATING FACTORS

AIR TEMPERATURE °C	25	30	35	40	45	50	55
DE-RATING FACTOR	1.00	0.96	0.92	0.88	0.83	0.78	0.73
GROUND TEMPERATURE °C	10	15	20	25	30	35	40
DE-RATING FACTOR	1.03	1.00	0.97	0.93	0.89	0.86	0.82
GROUND THERMAL RESISTIVITY km/W	0.9	1.000	1.2	1.5	2.0	2.5	3.0
DE-RATING FACTOR	1.06	1.04	1.00	0.92	0.82	0.74	0.68
DEPTH OF LAYING m	0.80	1.00	1.25	1.50	1.75	2.00	2.50
DE-RATING FACTOR	1.00	0.97	0.95	0.94	0.93	0.91	0.90