BS 6622 XLPE PVC 8.7/15kV Cable

APPLICATION

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

Voltage Rating Uo/U (Um)
6.35/11 (12)kV
Temperature Rating
Fixed: 0°C to +90°C
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Fixed: 0°C to +90°C
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 20ºC 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 ºC	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 ºC	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