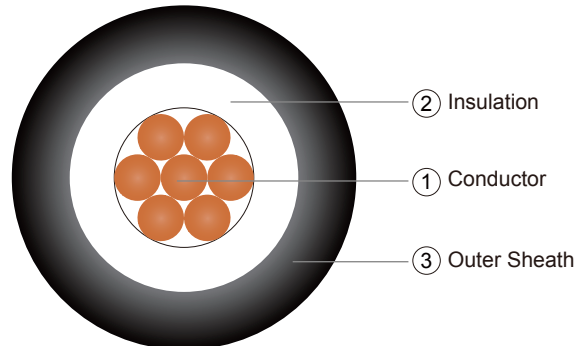


CU/XLPE/LSZH (Single Core)

XLPE Insulated, LSZH Sheathed Cable

Application

These power cable for fixed installations such as distribution networks or industrial installations. Such as Plant engineering; Industrial machinery; Heating and air-conditioning systems; Power stations; Stage applications etc.



Construction

① Conductor: Plain annealed copper, class1 solid or class 2 stranded circular or compacted. Flexible class 5 or tinned conductor could be offer upon request.

② Insulation: Cross-linked polyethylene (XLPE) compound as per IEC 60502-1. Insulation Colour:

Number of Cores	Color Code to IEC 60502-1	Color Code to BS 5467
1	Natural	

③ Outer Sheath: Low smoke zero halogen (LSZH) compound type ST8 (90°C) of IEC 60502-1. Outer Sheath Colour: Black or other color as per customer request.

Electrical Characteristics

Recommended rated voltages U_0

Highest system voltage (U_m) (kV)	Rated voltage (U_0) (kV)	
	Categories A and B	Category C
1,2	0,6	0,6

Routine test voltages

Rated voltage U_0 (kV)	0,6
Test voltage (kV)	3,5

Maximum conductor temperatures for different types of insulating compound

Maximum conductor temperature (°C)	
Normal operation	Short-circuit (5 s maximum duration)
90	250

Operating Temperature: -15°C to 90°C

Test Voltage: 3.5 kV for 5 minutes

Reference Standards

Design Specification: IEC60502-1

Conductor: IEC60228, BS EN60228

Flame Retardancy: IEC60332-3-22, BS EN60332-3-22

Installation Reference

Min.Bending Radius (mm): 8 x cable overall diameter

Max.Pulling Tension (N/mm²): 50

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Dimension

Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
1x1.5	7/0.53	0.7	1.4	5.8	52
1x2.5	7/0.67	0.7	1.4	6.2	65
1x4	7/0.85	0.7	1.4	6.8	86
1x6	7/1.04	0.7	1.4	7.3	111
1x10	7/1.35	0.7	1.4	8.3	160
1x16	7/1.70	0.7	1.4	9.3	229
1x25	7/2.14	0.9	1.4	11.0	343
1x35	7/2.52	0.9	1.4	12.2	452
1x50	19/1.78	1.0	1.4	13.7	595
1x70	19/2.14	1.1	1.4	15.7	830
1x95	19/2.52	1.1	1.5	17.8	1125
1x120	37/2.03	1.2	1.5	19.6	1400
1x150	37/2.25	1.4	1.6	21.8	1719
1x185	37/2.52	1.6	1.7	24.2	2148
1x240	61/2.25	1.7	1.8	27.3	2789
1x300	61/2.52	1.8	1.9	30.1	3469
1x400	61/2.85	2.0	2.0	33.7	4407
1x500	61/3.20	2.2	2.1	37.4	5522
1x630	127/2.52	2.4	2.3	42.2	7097
1x800	127/2.85	2.6	2.4	47.1	9009
1x1000	127/3.20	2.8	2.6	52.4	11310