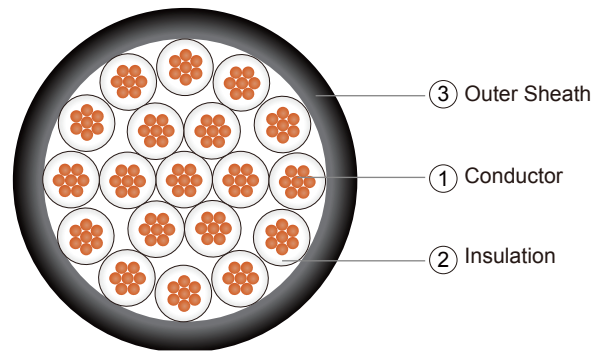


CU/XLPE/LSZH (Multi - Cores)

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 acc. to IEC 60228. Flexible class 5 or tinned conductor could be offer upon request.

② Insulation: PCross-linked polyethylene (XLPE) compound as per IEC 60502-1. Insulation Color Code:

Number of Cores	Color Code to IEC 60502-1	Color Code to BS 5467
6 and above	White with Black Numbering or Others	White with Black Numbering or Others

Assembly: Cores cabled together with PP filler and covered with non-woven tape.

③ Outer Sheath: Low smoke zero halogen (LSZH) compound ST8 (90°C) of IEC 60502-1. Outer Sheath Color: 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

Low Smoke Zero Halogen: IEC61034-2, BS EN61034-2, IEC60754-1, IEC60754-2, BS EN50267-2-1, BS EN50267-2-2

Installation Reference

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

Max.Pulling Tension (N/mm²): 50

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Dimension

No. of Cores	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)
5	1.5	7/0.53	0.7	1.8	11.7	197
7		7/0.53	0.7	1.8	12.6	248
10		7/0.53	0.7	1.8	15.6	340
12		7/0.53	0.7	1.8	16.0	387
19		7/0.53	0.7	1.8	18.6	560
20		7/0.53	0.7	1.8	19.0	586
24		7/0.53	0.7	1.8	21.5	695
37		7/0.53	0.7	1.8	24.5	1000
5		2.5	7/0.67	0.7	1.8	12.8
7	7/0.67		0.7	1.8	13.8	333
10	7/0.67		0.7	1.8	17.2	460
12	7/0.67		0.7	1.8	17.8	528
19	7/0.67		0.7	1.8	20.7	778
20	7/0.67		0.7	1.8	21.2	815
24	7/0.67		0.7	1.8	24.1	969
37	7/0.67		0.7	1.8	27.5	1415
5	4		7/0.85	0.7	1.8	14.3
7		7/0.85	0.7	1.8	15.5	465
10		7/0.85	0.7	1.8	19.4	646
12		7/0.85	0.7	1.8	20.0	749
19		7/0.85	0.7	1.8	23.4	1120
20		7/0.85	0.7	1.8	24.0	1174
24		7/0.85	0.7	1.8	27.3	1399
37	7/0.85	0.7	1.9	31.5	2083	