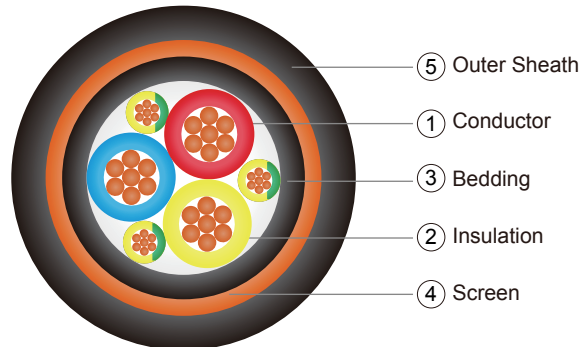


CU/XLPE/LSZH/CT/LSZH (3 Cores + 3 Earth)

XLPE Insulated, LSZH Bedded, Copper Tape Screened, 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: Cross-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
3+3	Red, Yellow, Blue, Green/ Yellow (x3) or Others	Brown, Black, Grey, Green/ Yellow (x3)

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

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

④ Armour: Copper tape.

⑤ Outer Sheath: Low smoke zero halogen (LSZH) compound type 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

Nominal Conductor Area(mm ²)	Combined Earth Size(mm ²)	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Diameter Under Screen (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
3x1.5	4.5(3x1.5)	7/0.53	0.7	11.7	16.8	485
3x.25	4.5(3x1.5)	7/0.67	0.7	12.3	17.4	532
3x4	4.5(3x1.5)	7/0.85	0.7	13.1	18.2	602
3x6	7.5(3x1.5)	7/1.04	0.7	14.6	19.7	734
3x10	12(3x4)	7/1.35	0.7	16.8	21.9	966
3x16	18(3x6)	7/1.70	0.7	19.2	24.3	1271
3x25	30(3x10)	7/2.14	0.9	23.2	28.3	1796
3x35	30(3x10)	7/2.52	0.9	24.9	30.0	2131
3x50	30(3x10)	19/1.78	1.0	27.4	32.7	2743
3x70	48(3x16)	19/2.14	1.1	32.4	37.9	3763
3x95	48(3x16)	19/2.52	1.1	35.2	40.9	4658
3x120	75(3x25)	37/2.03	1.2	40.9	46.4	5905
3x150	75(3x25)	37/2.25	1.4	43.8	49.9	6919
3x185	105(3x35)	37/2.52	1.6	49.0	55.5	8584
3x240	150x(3x50)	61/2.25	1.7	56.3	63.4	11343
3x300	150x(3x50)	61/2.52	1.8	60.3	67.6	13373