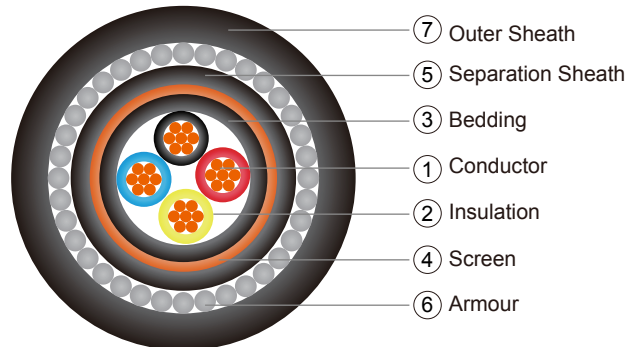


CU/XLPE/LSZH/CT/LSZH/SWA/LSZH (4 Cores)

XLPE Insulated, LSZH Bedded, Copper Tape Screened, LSZH Sheathed, Galvanised Steel Wire Armoured, 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. Armoured cable suitable for direct burial.



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
4	Red, Yellow, Blue, Green/ Yellow or Others	Brown, Black, Grey, Green/ Yellow

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 Color: Black.

④ Screen: Copper tape.

⑤ Separation Sheath: Low smoke zero halogen (LSZH) compound type ST8 (90°C) of IEC 60502-1. Separation Sheath Color: Black.

⑥ Armour: Galvanized Steel wire armoured (SWA).

⑦ 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

Installation Reference

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

Max.Pulling Tension (N/mm²): 70

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XLPE Insulated, LSZH Bedded, Copper Tape Screened, LSZH Sheathed, Galvanised Steel Wire Armoured, LSZH Sheathed Cable

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

Dimension

Nominal Conductor Area(mm ²)	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Diameter Under Screen (mm)	Diameter Under Armour (mm)	Armour Wire Diameter (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
4X1.5	7/0.53	0.7	9.7	13.1	1.25	19.9	871
4X2.5	7/0.67	0.7	10.7	14.1	1.25	20.9	981
4X4	7/0.85	0.7	12.0	15.4	1.25	22.2	1127
4X6	7/1.04	0.7	13.4	16.8	1.25	23.6	1304
4X10	7/1.35	0.7	15.6	19.0	1.6	26.5	1758
4X16	7/1.70	0.7	18.2	21.6	1.6	29.1	2186
4X25	7/2.14	0.9	22.3	25.7	1.6	33.4	2915
4X35	7/2.52	0.9	25.1	28.5	1.6	36.4	3535
4X50	19/1.78	1.0	25.4	28.8	2.0	37.7	4370
4x70	19/2.14	1.1	29.8	33.2	2.0	42.5	5651
4x95	19/2.52	1.1	33.5	37.1	2.5	47.6	7413
4x120	37/2.03	1.2	37.3	41.1	2.5	52.0	8888
4x150	37/2.25	1.4	42.8	46.8	2.5	58.1	10632
4x185	37/2.52	1.6	47.4	51.4	2.5	62.9	12641
4x240	61/2.25	1.7	54.7	59.3	2.5	71.2	16133
4x300	61/2.52	1.8	60.6	65.4	3.15	79.2	20227