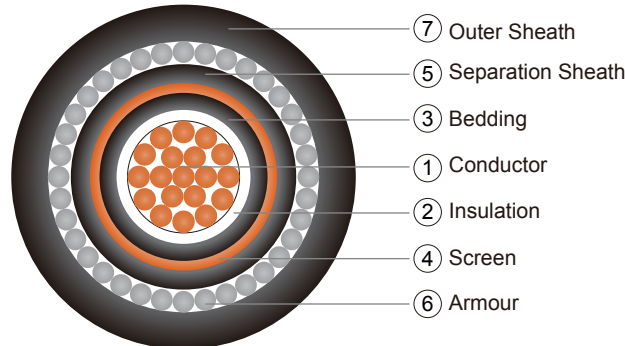


CU/XLPE/LSZH/CT/LSZH/AWA/LSZH (Single Cores)

XLPE Insulated, LSZH Bedded, Copper Tape Screened, LSZH Sheathed, Aluminium 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
1	Natural	

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: Aluminium wire armoured (AWA).

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): 50

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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)
1x70	19/2.14	1.1	15.3	18.7	1.6	25.7	1677
1x95	19/2.52	1.1	17.2	20.6	1.6	27.6	2111
1x120	37/2.03	1.2	19.0	22.4	1.6	29.4	2463
1x150	37/2.25	1.4	21.0	24.6	1.6	31.4	2846
1x185	37/2.52	1.6	23.2	26.8	1.6	34.0	3533
1x240	61/2.25	1.7	26.1	29.7	2.0	37.9	4383
1x300	61/2.52	1.8	28.7	32.3	2.0	40.7	5181
1x400	61/2.85	2.0	32.5	36.1	2.0	44.7	6317
1x500	61/3.20	2.2	36.0	39.6	2.0	48.4	7578
1x630	127/2.52	2.4	40.4	44.2	2.5	54.4	9505
1x800	127/2.85	2.6	45.5	49.5	2.5	59.9	11694
1x1000	127/3.20	2.8	50.4	54.6	2.5	65.4	14193