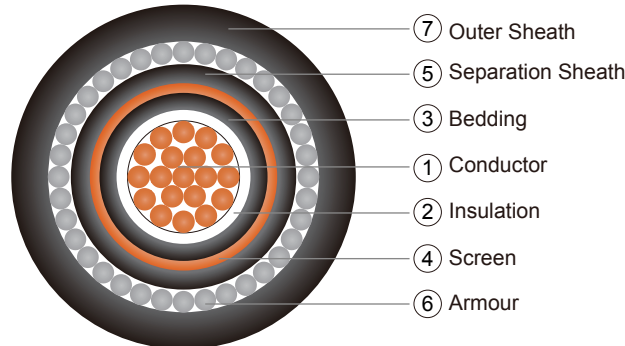


## CU/XLPE/LSZH/CT/LSZH/AWA/LSZH (Single Cores)

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/mm<sup>2</sup>): 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 <sup>2</sup> )	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