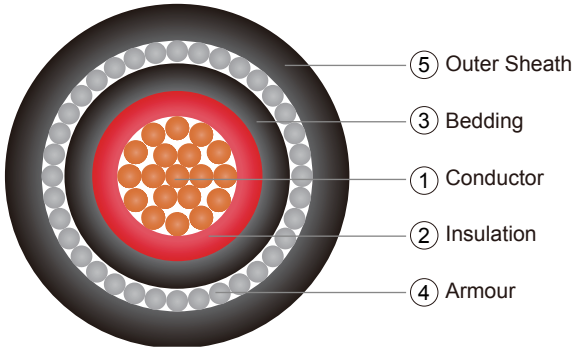
CU/XLPE/PVC/AWA/PVC (Single Core)

XLPE Insulated, PVC Bedded, Alminium Wire Armoured, PVC 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

①Conductor: Plain annealed copper, class1 solid or class 2 stranded acc. to IEC 60228.
Flexible class 5 or tinned conductor could be offer upon request.
②Insulation: Cross-linked polyethlene (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	Red or Black	Brown or Blue

③Bedding: Polyvinyl choride (PVC) compound type ST1 (80°C), ST2 (90°C) of IEC 60502-1.
Bedding Colour: Black or other color as per customer request.
④Armour: Aluminium wire armoured (AWA).
⑤Outer Sheath: Polyvinyl choride (PVC) compound type ST1 (80°C), ST2 (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^2): 50

Reference Standards

Design Specification: IEC60502-1
Conductor: IEC60228, BS EN60228
Flame Retardancy: IEC60332-1, BS EN60332-1

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Dimension

Nominal Conductor Area (mm^2)	No,and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
1x50	19/1.78	1.0	1.0	1.25	1.8	19.0	1086
1x70	19/2.14	1.1	1.0	1.25	1.8	21.0	1387
1x95	19/2.52	1.1	1.0	1.60	1.8	23.6	1881
1x120	37/2.03	1.2	1.0	1.60	1.8	25.4	2227
1x150	37/2.25	1.4	1.0	1.60	1.8	27.4	2611
1x185	37/2.52	1.6	1.0	1.60	1.9	29.8	3132
1x240	61/2.25	1.7	1.0	2.00	2.0	33.7	4131
1x300	61/2.52	1.8	1.2	2.00	2.1	36.9	4988
1x400	61/2.85	2.0	1.2	2.00	2.2	40.5	6091
1x500	61/3.20	2.2	1.2	2.50	2.4	45.4	7823
1x630	127/2.52	2.4	1.4	2.50	2.5	50.4	9702
1x800	127/2.85	2.6	1.4	2.50	2.7	55.5	11924
1x1000	127/3.20	2.8	1.6	2.50	2.9	61.2	14606