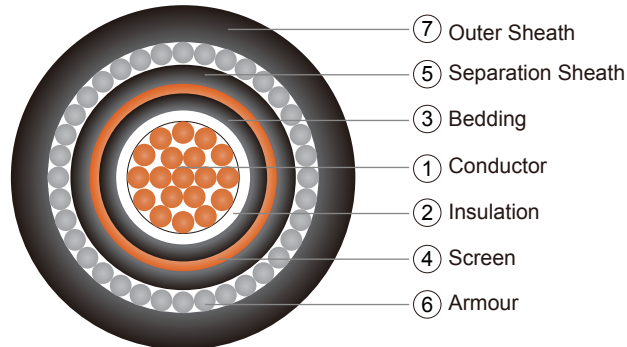


CU/XLPE/PVC/CT/PVC/AWA/PVC (Single Core)

XLPE Insulated, PVC Bedded, Copper Tape Screened, PVC Separation Sheath, Aluminium 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

① Conductor: Plain annealed copper, class1 solid or class 2 stranded circular or compacted. Flexible class 5 or tinned conductor could be offer upon request.

② Insulation: Cross-linked polyethylene (XLPE) compound as per IEC 60502-1.
Insulation Colour:

Number of Cores	Color Code to IEC 60502-1	Color Code to BS 5467
1	Natural	

③ Bedding: PPolyvinyl choride (PVC) compound type ST1 (80°C), ST2 (90°C) of IEC 60502-1.
Bedding Colour: Black or other color as per customer request.

④ Screen: Copper tape.

⑤ Separation Sheath: Polyvinyl choride (PVC) compound type ST1 (80°C), ST2 (90°C) of IEC 60502-1.
Separation Sheath Colour: Black or other color as per customer request.

⑥ Armour: Aliminium wire armoured (AWA).

⑦ Outer Sheath: Polyvinyl choride (PVC) compound type ST1 (80°C), ST2 (90°C) of IEC 60502-1.
Outer Sheath Colour: 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: IEC60332-1, BS EN60332-1

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)	Diameter of Armour Wire (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
1x70	19/2.14	1.1	15.2	18.7	1.6	25.7	1655
1x95	19/2.52	1.1	17.2	20.6	1.6	27.6	2010
1x120	37/2.03	1.2	19.0	22.4	1.6	29.4	2352
1x150	37/2.25	1.4	21.0	24.6	1.6	31.6	2829
1x185	37/2.52	1.6	23.2	26.8	1.6	34.0	3344
1x240	61/2.25	1.7	26.1	29.7	2.0	37.9	4174
1x300	61/2.52	1.8	28.7	32.3	2.0	40.7	5141
1x400	61/2.85	2.0	32.5	36.1	2.0	44.7	6271
1x500	61/3.20	2.2	36.0	39.6	2.0	48.4	7527
1x630	127/2.52	2.4	40.4	44.2	2.5	54.4	9446
1x800	127/2.85	2.6	45.5	49.5	2.5	59.9	11625
1x1000	127/3.20	2.8	50.4	54.6	2.5	65.4	14114