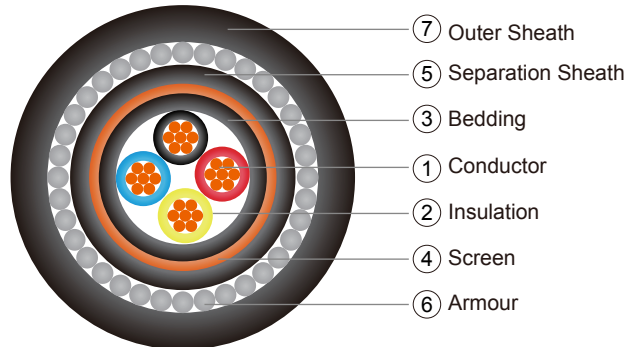


CU/XLPE/PVC/CT/PVC/SWA/PVC (4 Core)

XLPE Insulated, PVC Bedded, Copper Tape Screened, PVC Separation Sheath, Galvanised Steel 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
4	Red, Yellow, Blue and Black	Blue, Brown, Black and Grey

Assembly: Cores cabled together with PP filler and covered with non-woven tape.

③ Bedding: 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.

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: Galvanized steel wire armoured (SWA).

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): 70

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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 of Armour Wire (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
4X1.5	7/0.53	0.7	1.25	19.5	880
4X2.5	7/0.67	0.7	1.25	20.5	986
4X4	7/0.85	0.7	1.25	21.8	1126
4X6	7/1.04	0.7	1.25	23.2	1296
4X10	7/1.35	0.7	1.60	26.1	1732
4X16	7/1.70	0.7	1.60	28.7	2136
4X25	7/2.14	0.9	1.60	33.0	2818
4X35	7/2.52	0.9	1.60	36.0	3394
4X50(S)	19/1.78	1.0	2.00	37.3	4186
4X70(S)	19/2.14	1.1	2.00	42.1	5421
4X95(S)	19/2.52	1.1	2.50	47.6	7336
4X120(S)	37/2.03	1.2	2.50	52.0	8782
4X150(S)	37/2.25	1.4	2.50	58.1	10495
4X185(S)	37/2.52	1.6	2.50	62.9	12467
4X240(S)	61/2.25	1.7	2.50	71.0	15599
4X300(S)	61/2.52	1.8	3.15	79.0	19597