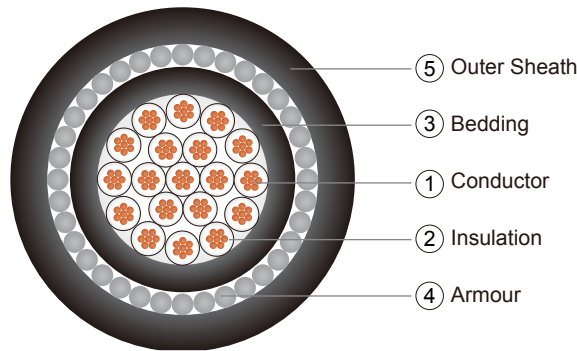


## CU/XLPE/PVC/SWA/PVC (Multi - Cores)

XLPE Insulated, PVC Bedded, 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 acc. to IEC 60228.

Flexible class 5 or tinned conductor could be offer upon request.

② Insulation: PCross-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
6 and above	White with Black Numbering or Others	White with Black Numbering or Others

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 Armour: Galvanized steel wire armoured (SWA).

⑤ Outer 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<sup>2</sup>): 70

### Reference Standards

Design Specification: IEC60502-1

Conductor: IEC60228, BS EN60228

Flame Retardancy: IEC60332-1, BS EN60332-1

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#### Dimension

No. of Cores	Nominal Conductor Area (mm <sup>2</sup> )	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)
5	1.5	7/0.53	0.7	1.0	1.25	1.8	16.2	573
7		7/0.53	0.7	1.0	1.25	1.8	17.1	652
10		7/0.53	0.7	1.0	1.25	1.8	20.1	835
12		7/0.53	0.7	1.0	1.25	1.8	20.5	896
19		7/0.53	0.7	1.0	1.60	1.8	23.8	1294
20		7/0.53	0.7	1.0	1.60	1.8	24.2	1337
24		7/0.53	0.7	1.0	1.60	1.8	26.7	1541
37		7/0.53	0.7	1.0	1.60	1.9	29.9	1975
5	2.5	7/0.67	0.7	1.0	1.25	1.8	17.3	671
7		7/0.67	0.7	1.0	1.25	1.8	18.3	775
10		7/0.67	0.7	1.0	1.60	1.8	22.4	1145
12		7/0.67	0.7	1.0	1.60	1.8	23.0	1233
19		7/0.67	0.7	1.0	1.60	1.8	25.9	1591
20		7/0.67	0.7	1.0	1.60	1.8	26.4	1648
24		7/0.67	0.7	1.0	1.60	1.8	29.3	1911
37		7/0.67	0.7	1.2	2.00	2.0	34.3	2814
5	4	7/0.85	0.7	1.0	1.25	1.8	18.8	812
7		7/0.85	0.7	1.0	1.25	1.8	20.0	956
10		7/0.85	0.7	1.0	1.60	1.8	24.6	1413
12		7/0.85	0.7	1.0	1.60	1.8	25.2	1538
19		7/0.85	0.7	1.0	1.60	1.8	28.6	2035
20		7/0.85	0.7	1.0	1.60	1.8	29.2	2112
24		7/0.85	0.7	1.0	2.00	1.8	33.3	2710
37		7/0.85	0.7	1.2	2.00	1.8	37.7	3609