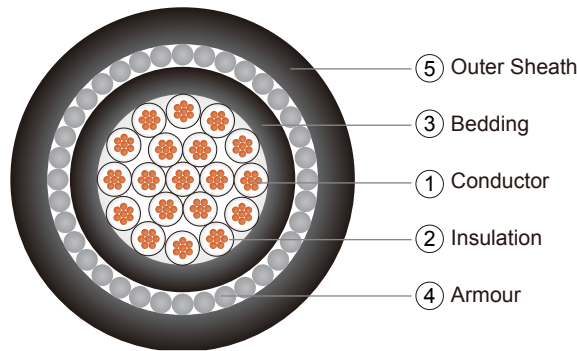


CU/XLPE/PVC/SWA/PVC (Multi - Cores)

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/mm²): 70

Reference Standards

Design Specification: IEC60502-1

Conductor: IEC60228, BS EN60228

Flame Retardancy: IEC60332-1, BS EN60332-1

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

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Dimension

| No. of Cores | 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) |
|--------------|-------------------------------------------|------------------------------------|------------------------------|---------------------------|------------------------------|--------------------------|-----------------------|----------------------------|
| 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 |