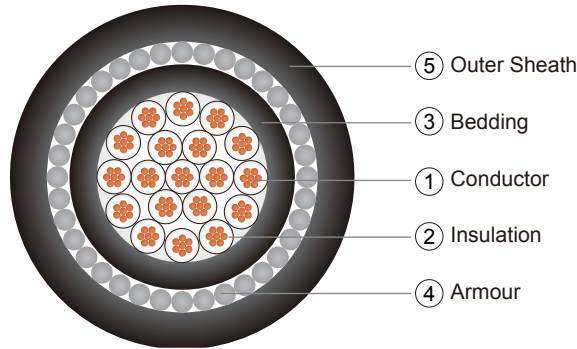


CU/PVC/PVC/SWA/PVC (Multi - Cores)

PVC 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: Polyvinyl chloride (PVC) 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 chloride (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 chloride (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)
70	160

Minimum Insulation Resistance at 20°C: 36.7 MΩ·km

Operating Temperature: -15°C to 70°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: IEC60502-1

Conductor: IEC60228, BS EN60228

Flame Retardancy: IEC 60332-1, BS EN60332-1

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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 Inner Sheath (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
5	1.5	7/0.53	0.8	1.0	1.25	1.8	16.7	616
7		7/0.53	0.8	1.0	1.25	1.8	17.7	705
10		7/0.53	0.8	1.0	1.25	1.8	20.9	908
12		7/0.53	0.8	1.0	1.60	1.8	22.1	1,115
19		7/0.53	0.8	1.0	1.60	1.8	24.8	1,421
20		7/0.53	0.8	1.0	1.60	1.8	25.2	1,470
24		7/0.53	0.8	1.0	1.60	1.8	27.9	1,699
37		7/0.53	0.8	1.0	1.60	1.9	31.3	2,197
5	2.5	7/0.67	0.8	1.0	1.25	1.8	17.8	716
7		7/0.67	0.8	1.0	1.25	1.8	18.9	833
10		7/0.67	0.8	1.0	1.60	1.8	23.2	1,231
12		7/0.67	0.8	1.0	1.60	1.8	23.8	1,331
19		7/0.67	0.8	1.0	1.60	1.8	26.9	1,731
20		7/0.67	0.8	1.0	1.60	1.8	27.4	1,794
24		7/0.67	0.8	1.0	1.60	1.9	30.7	2,100
37		7/0.67	0.8	1.2	2.00	2.1	35.9	3,094
5	4	7/0.85	1.0	1.0	1.25	1.8	20.4	928
7		7/0.85	1.0	1.0	1.60	1.8	22.5	1,238
10		7/0.85	1.0	1.0	1.60	1.8	27.0	1,628
12		7/0.85	1.0	1.0	1.60	1.8	27.7	1,779
19		7/0.85	1.0	1.0	1.60	1.9	31.8	2,387
20		7/0.85	1.0	1.0	2.00	2.0	33.5	2,741
24		7/0.85	1.0	1.2	2.00	2.1	37.9	3,262
37		7/0.85	1.0	1.2	2.00	2.3	42.9	4,332