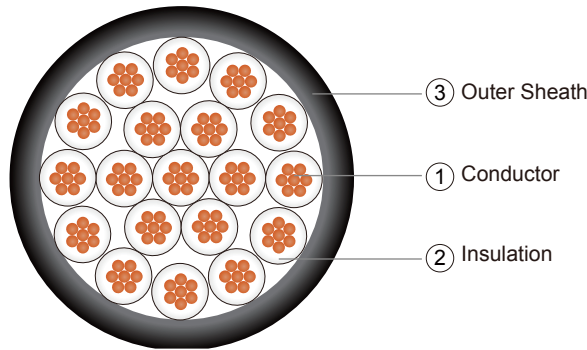


CU/PVC/PVC (Multi - Cores)

PVC Insulated, 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.



Construction

① Conductor: Plain annealed copper, class 1 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 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): 50

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)	Sheath Thickness (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
5	1.5	7/0.53	0.8	1.8	12.2	223
7		7/0.53	0.8	1.8	13.2	283
10		7/0.53	0.8	1.8	16.4	389
12		7/0.53	0.8	1.8	16.9	445
19		7/0.53	0.8	1.8	19.6	649
20		7/0.53	0.8	1.8	20.0	679
24		7/0.53	0.8	1.8	22.7	806
37		7/0.53	0.8	1.8	25.9	1169
5		2.5	7/0.67	0.8	1.8	13.3
7	7/0.67		0.8	1.8	14.4	373
10	7/0.67		0.8	1.8	18.0	516
12	7/0.67		0.8	1.8	18.6	595
19	7/0.67		0.8	1.8	21.7	880
20	7/0.67		0.8	1.8	22.2	922
24	7/0.67		0.8	1.8	25.3	1097
37	7/0.67		0.8	1.8	28.9	1609
5	4		7/0.85	1.0	1.8	15.9
7		7/0.85	1.0	1.8	17.3	553
10		7/0.85	1.0	1.8	21.8	771
12		7/0.85	1.0	1.8	22.5	895
19		7/0.85	1.0	1.8	26.4	1343
20		7/0.85	1.0	1.8	27.1	1408
24		7/0.85	1.0	1.8	30.9	1679
37	7/0.85	1.0	1.8	35.5	2486	