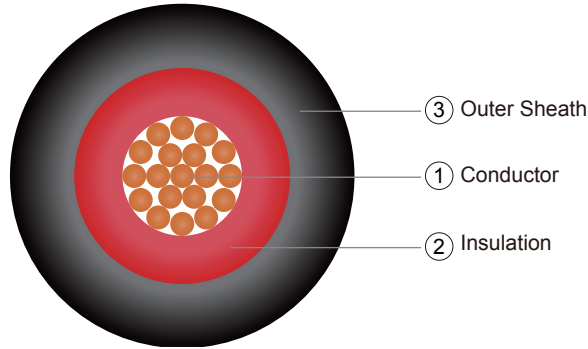


CU/PVC/PVC (Single Core)

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
1	Red or Black	Brown or Blue

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

PVC Insulation compound	Maximum conductor temperature (°C)	
	Normal operation	Short-circuit (5 s maximum duration)
Conductor cross-section $\leq 300 \text{ mm}^2$	70	160
Conductor cross-section $> 300 \text{ mm}^2$	70	140

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): 6 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

Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Apporoximate Weight (kg/km)
1x1.5	7/0.53	0.8	1.4	6.0	58
1x2.5	7/0.67	0.8	1.4	6.4	72
1x4	7/0.85	1.0	1.4	7.4	100
1x6	7/1.04	1.0	1.4	7.9	127
1x10	7/1.35	1.0	1.4	8.9	179
1x16	7/1.70	1.0	1.4	9.9	250
1x25	7/2.14	1.2	1.4	11.6	371
1x35	7/2.52	1.2	1.4	12.8	483
1x50	19/1.78	1.4	1.4	14.5	639
1x70	19/2.14	1.4	1.4	16.3	875
1x95	19/2.52	1.6	1.5	18.8	1195
1x120	37/2.03	1.6	1.6	20.6	1481
1x150	37/2.25	1.8	1.6	22.6	1802
1x185	37/2.52	2.0	1.7	25.0	2247
1x240	61/2.25	2.2	1.8	28.3	2919
1x300	61/2.52	2.4	1.9	31.3	3633
1x400	61/2.85	2.6	2.0	34.9	4600
1x500	61/3.20	2.8	2.2	38.8	5766
1x630	127/2.52	2.8	2.3	43.0	7318
1x800	127/2.85	2.8	2.4	47.5	9221
1x1000	127/3.20	3.0	2.6	52.8	11561