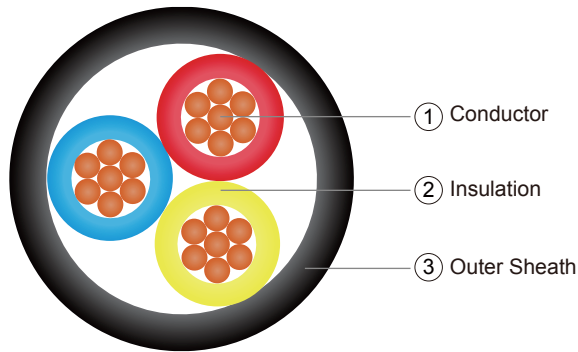


## CU/PVC/PVC (2 Cores - 5 Cores)

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 as per 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 Colour:

Number of Cores	Color Code to IEC 60502-1	Color Code to BS 5467
2	Red, Black	Brown, Blue
3	Red, Yellow and Blue	Brown, Black and Grey
4	Red, Yellow, Blue and Black	Blue, Brown, Black and Grey
5	Red, Yellow, Blue, Black and Green / Yellow	Green / Yellow, Blue, Brown, Black and Grey

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 Colour: 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 M $\Omega$ ·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/mm<sup>2</sup>): 50

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### Reference Standards

Design Specification: IEC 60502-1

Conductor: IEC60228, BS EN60228

Flame Retardancy: EC60332-1, BS EN60332-1

### Dimension

#### 2 Cores

Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
2x1.5	7/0.53	0.8	1.8	10.0	126
2x2.5	7/0.67	0.8	1.8	10.8	156
2x4	7/0.85	1.0	1.8	12.7	217
2x6	7/1.04	1.0	1.8	13.8	274
2x10	7/1.35	1.0	1.8	15.7	383
2x16	7/1.70	1.0	1.8	17.8	533
2x25	7/2.14	1.2	1.8	21.2	786
2x35	7/2.52	1.2	1.8	23.5	1019
2x50	19/1.78	1.4	1.8	27.0	1344
2x70	19/2.14	1.4	1.9	30.8	1848
2x95	19/2.52	1.6	2.1	35.8	2528
2x120	37/2.03	1.6	2.2	39.2	3119
2x150	37/2.25	1.8	2.3	43.3	3808
2x185	37/2.52	2.0	2.5	48.3	4753
2x240	61/2.25	2.2	2.7	54.7	6174
2x300	61/2.52	2.4	2.9	60.8	7684
2x400	61/2.85	2.6	3.1	67.9	9722
2x500	61/3.20	2.8	3.4	75.6	12174
2x630	127/2.52	2.8	3.6	83.9	15426
2x800	127/2.85	2.8	4.0	93.3	19504
2x1000	127/3.20	3.0	4.3	103.8	24404

#### 3 Cores

Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
3x1.5	7/0.53	0.8	1.8	10.5	156
3x2.5	7/0.67	0.8	1.8	11.4	198
3x4	7/0.85	1.0	1.8	13.4	282
3x6	7/1.04	1.0	1.8	14.6	363
3x10	7/1.35	1.0	1.8	16.6	520
3x16	7/1.70	1.0	1.8	18.9	737
3x25	7/2.14	1.2	1.8	22.6	1102
3x35	7/2.52	1.2	1.8	25.1	1444
3x50	19/1.78	1.4	1.8	28.8	1918
3x70	19/2.14	1.4	2.0	33.1	2670
3x95	19/2.52	1.6	2.1	38.2	3639
3x120	37/2.03	1.6	2.3	42.1	4523
3x150	37/2.25	1.8	2.4	46.5	5531
3x185	37/2.52	2.0	2.6	51.8	6909
3x240	61/2.25	2.2	2.8	58.7	8986
3x300	61/2.52	2.4	3.0	65.2	11196
3x400	61/2.85	2.6	3.3	73.1	14222
3x500	61/3.20	2.8	3.5	81.1	17772
3x630	127/2.52	2.8	3.8	90.2	22606
3x800	127/2.85	2.8	4.2	100.3	28586
3x1000	127/3.20	3.0	4.5	111.5	35794

## CU/PVC/PVC (2 Cores - 5 Cores)

PVC Insulated, PVC Sheathed Cable

### 4 Cores

Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
4x1.5	7/0.53	0.8	1.8	11.3	189
4x2.5	7/0.67	0.8	1.8	12.3	243
4x4	7/0.85	1.0	1.8	14.6	352
4x6	7/1.04	1.0	1.8	16.0	457
4x10	7/1.35	1.0	1.8	18.2	663
4x16	7/1.70	1.0	1.8	20.7	948
4x25	7/2.14	1.2	1.8	24.9	1428
4x35	7/2.52	1.2	1.8	27.6	1879
4x50	19/1.78	1.4	1.9	32.0	2519
4x70	19/2.14	1.4	2.1	36.8	3510
4x95	19/2.52	1.6	2.3	42.7	4810
4x120	37/2.03	1.6	2.4	46.8	5953
4x150	37/2.25	1.8	2.6	51.9	7310
4x185	37/2.52	2.0	2.8	57.8	9128
4x240	61/2.25	2.2	3.0	65.5	11874
4x300	61/2.52	2.4	3.3	72.9	14831
4x400	61/2.85	2.6	3.6	81.7	18832
4x500	61/3.20	2.8	3.9	90.8	23579
4x630	127/2.52	2.8	4.2	101.0	29982
4x800	127/2.85	2.8	4.6	112.2	37895
4x1000	127/3.20	3.0	5.0	124.9	47510

### 5 Cores

Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
5x1.5	7/0.53	0.8	1.8	12.2	223
5x2.5	7/0.67	0.8	1.8	13.3	289
5x4	7/0.85	1.0	1.8	15.9	423
5x6	7/1.04	1.0	1.8	17.4	552
5x10	7/1.35	1.0	1.8	19.9	807
5x16	7/1.70	1.0	1.8	22.8	1160
5x25	7/2.14	1.2	1.8	27.4	1755
5x35	7/2.52	1.2	1.9	30.7	2331
5x50	19/1.78	1.4	2.1	35.8	3144
5x70	19/2.14	1.4	2.2	40.9	4357
5x95	19/2.52	1.6	2.4	47.5	5972
5x120	37/2.03	1.6	2.6	52.2	7419
5x150	37/2.25	1.8	2.8	57.8	9106
5x185	37/2.52	2.0	3.0	64.4	11368
5x240	61/2.25	2.2	3.3	73.2	14823
5x300	61/2.52	2.4	3.5	81.2	18462
5x400	61/2.85	2.6	3.9	91.1	23483
5x500	61/3.20	2.8	4.2	101.3	29392
5x630	127/2.52	2.8	4.6	112.8	37424
5x800	127/2.85	2.8	5.0	125.2	47279
5x1000	127/3.20	3.0	5.4	139.3	59254