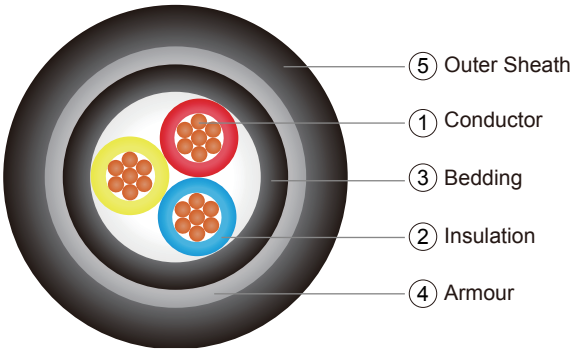
CU/PVC/PVC/DSTA/PVC (2 Core to 5 Cores)

PVC Insulated, PVC Bedded, Double Steel Tape 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

①Conductor: Plain annealed copper, class1 solid or class 2 stranded as per IEC 60228.
Flexible class 5 or tinned conductor could be offer upon request.
②Insulation: Polyviny 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.
③Bedding: Polyvinyl chloride (PVC) compound type ST1 (80°C), ST2 (90°C) of IEC 60502-1.
Bedding Color: Black or other color as per customer request.
④Armour: Double steel tape armoured (DSTA).
⑤Outer 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 ≤300 mm^2	70	160
Conductor cross-section >300 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 Refference

Min.Bending Radius (mm): 8 x cable overall diameter
Max.Pulling Tension (N/mm^2): 70

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Reference Standards

Design: IEC60502-1
Conductor: IEC60228, BS EN60228
Flame Retardancy: IEC 60332-1, BS EN60332-1

Dimension

2 Cores

Nominal Conductor Area (mm^2)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Inner Sheath (mm)	Thickness of Armour Tape (mm)	Thickness of Outer Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
2x1.5	7/0.53	0.8	1.0	0.2	1.8	12.8	277
2x2.5	7/0.67	0.8	1.0	0.2	1.8	13.6	319
2x4	7/0.85	1.0	1.0	0.2	1.8	15.5	409
2x6	7/1.04	1.0	1.0	0.2	1.8	16.6	483
2x10	7/1.35	1.0	1.0	0.2	1.8	18.5	620
2x16	7/1.70	1.0	1.0	0.2	1.8	20.6	802
2x25	7/2.14	1.2	1.0	0.2	1.8	24.0	1106
2x35	7/2.52	1.2	1.0	0.2	1.8	26.3	1374
2x50	19/1.78	1.4	1.0	0.2	1.9	30.4	1800
2x70	19/2.14	1.4	1.2	0.2	2.0	34.2	2366
2x95	19/2.52	1.6	1.2	0.5	2.2	40.8	3719
2x120	37/2.03	1.6	1.2	0.5	2.3	44.2	4417
2x150	37/2.25	1.8	1.4	0.5	2.5	48.5	5260
2x185	37/2.52	2.0	1.4	0.5	2.6	53.3	6335
2x240	61/2.25	2.2	1.6	0.5	2.9	60.3	8056
2x300	61/2.52	2.4	1.6	0.5	3.1	66.4	9765
2x400	61/2.85	2.6	1.8	0.5	3.3	73.9	12121
2x500	61/3.20	2.8	1.8	0.8	3.6	82.8	15979
2x630	127/2.52	2.8	1.8	0.8	3.9	91.3	19682
2x800	127/2.85	2.8	2.0	0.8	4.2	100.9	24273
2x1000	127/3.20	3.0	2.0	0.8	4.5	111.4	29690

3 Cores

Nominal Conductor Area (mm^2)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Inner Sheath (mm)	Thickness of Armour Tape (mm)	Thickness of Outer Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
3x1.5	7/0.53	0.8	1.0	0.2	1.8	13.3	314
3x2.5	7/0.67	0.8	1.0	0.2	1.8	14.2	370
3x4	7/0.85	1.0	1.0	0.2	1.8	16.2	485
3x6	7/1.04	1.0	1.0	0.2	1.8	17.4	584
3x10	7/1.35	1.0	1.0	0.2	1.8	19.4	771
3x16	7/1.70	1.0	1.0	0.2	1.8	21.7	1022
3x25	7/2.14	1.2	1.0	0.2	1.8	25.4	1443
3x35	7/2.52	1.2	1.0	0.2	0.8	25.9	1686
3x50	19/1.78	1.4	1.2	0.2	0.9	30.2	2246
3x70	19/2.14	1.4	1.2	0.5	2.1	37.7	3730
3x95	19/2.52	1.6	1.2	0.5	2.3	43.0	4879
3x120	37/2.03	1.6	1.4	0.5	2.4	47.1	5912
3x150	37/2.25	1.8	1.4	0.5	2.6	51.7	7084
3x185	37/2.52	2.0	1.6	0.5	2.8	57.4	8696
3x240	61/2.25	2.2	1.6	0.5	3.0	64.3	11001
3x300	61/2.52	2.4	1.6	0.5	3.2	70.8	13424
3x400	61/2.85	2.6	1.8	0.8	3.5	80.3	17906
3x500	61/3.20	2.8	1.8	0.8	3.8	88.5	21891
3x630	127/2.52	2.8	2.0	0.8	4.1	98.0	27280
3x800	127/2.85	2.8	2.0	0.8	4.4	107.9	33698
3x1000	127/3.20	3.0	2.0	0.8	4.8	119.3	41524

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4 Cores

Nominal Conductor Area (mm^2)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Inner Sheath (mm)	Thickness of Armour Tape (mm)	Thickness of Outer Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
4x1.5	7/0.53	0.8	1.0	0.2	1.8	14.1	360
4x2.5	7/0.67	0.8	1.0	0.2	1.8	15.1	429
4x4	7/0.85	1.0	1.0	0.2	1.8	17.4	572
4x6	7/1.04	1.0	1.0	0.2	1.8	18.8	698
4x10	7/1.35	1.0	1.0	0.2	1.8	21.0	938
4x16	7/1.70	1.0	1.0	0.2	1.8	23.5	1260
4x25	7/2.14	1.2	1.0	0.2	1.8	27.7	1803
4x35	7/2.52	1.2	1.0	0.2	1.9	30.6	2311
4x50	19/1.78	1.4	1.2	0.5	2.1	36.8	3568
4x70	19/2.14	1.4	1.2	0.5	2.2	41.4	4683
4x95	19/2.52	1.6	1.4	0.5	2.5	47.9	6244
4x120	37/2.03	1.6	1.4	0.5	2.6	52.0	7518
4x150	37/2.25	1.8	1.6	0.5	2.8	57.5	9101
4x185	37/2.52	2.0	1.6	0.5	3.0	63.4	11113
4x240	61/2.25	2.2	1.6	0.5	3.2	71.1	14113
4x300	61/2.52	2.4	1.8	0.5	3.5	78.9	17400
4x400	61/2.85	2.6	1.8	0.8	3.8	88.9	22929
4x500	61/3.20	2.8	2.0	0.8	4.1	98.4	28228
4x630	127/2.52	2.8	2.0	0.8	4.4	108.6	35132
4x800	127/2.85	2.8	2.0	0.8	4.8	119.8	43590
4x1000	127/3.20	3.0	2.0	0.8	5.2	132.5	53831

5 Cores

Nominal Conductor Area (mm^2)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Inner Sheath (mm)	Thickness of Armour Tape (mm)	Thickness of Outer Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
5x1.5	7/0.53	0.8	1.0	0.2	1.8	15.0	408
5x2.5	7/0.67	0.8	1.0	0.2	1.8	16.1	491
5x4	7/0.85	1.0	1.0	0.2	1.8	18.7	663
5x6	7/1.04	1.0	1.0	0.2	1.8	20.2	815
5x10	7/1.35	1.0	1.00	0.2	1.8	22.7	1108
5x16	7/1.70	1.0	1.0	0.2	1.8	25.6	1503
5x25	7/2.14	1.2	1.0	0.2	1.9	30.4	2184
5x35	7/2.52	1.2	1.2	0.2	2.0	34.1	2846
5x50	19/1.78	1.4	1.2	0.5	2.2	40.4	4286
5x70	19/2.14	1.4	1.4	0.5	2.4	46.1	5731
5x95	19/2.52	1.6	1.4	0.5	2.6	52.7	7557
5x120	37/2.03	1.6	1.6	0.5	2.8	57.8	9220
5x150	37/2.25	1.8	1.6	0.5	3.0	63.4	11091
5x185	37/2.52	2.0	1.6	0.5	3.2	70.0	13570
5x240	61/2.25	2.2	1.8	0.8	3.5	80.4	18512
5x300	61/2.52	2.4	1.8	0.8	3.8	88.6	22586
5x400	61/2.85	2.6	2.0	0.8	4.1	98.7	28145
5x500	61/3.20	2.8	2.0	0.8	4.5	109.1	34612
5x630	127/2.52	2.8	2.0	0.8	4.8	120.4	43151
5x800	127/2.85	2.8	2.0	0.8	5.2	132.8	53614
5x1000	127/3.20	3.0	2.0	0.8	5.7	147.1	66362