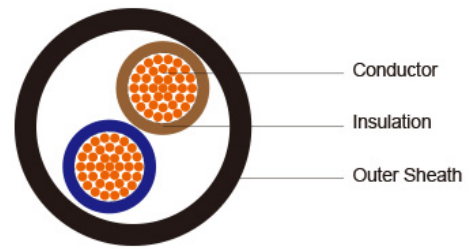


300/500V PVC Insulated PVC Sheathed Power Cables 2-5 Cores



Application:	The cables are mainly used in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals, and high-rise buildings.
Standards:	Basic design to BS EN 50525-2-11(formerly BS 6500)
Fire Performance:	Flame Retardance (Single Vertical Wire Test) EN 60332-1-2
Voltage Rating:	300/500V
Conductor	Flexible copper wire according to EN 60228 class 5.
Insulation	PVC type TI 2 according to EN 50363-3.
Filling	For circular cable having two cores, the space between the cores shall be filled either by separate fillers or by the sheath filling the interstices. For circular cables with three, four or five cores, a centre filler may be used.
Outer Sheath	PVC type TM 2 according to EN 50363-4-1. A tape may be applied around the core assembly before application of the sheath.
Sheath Option	UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

Colour Code

Insulation Colour

Cables and cords with a green-and-yellow cores

No. of cores	Colour of cores				
	Protective	Live			
3 Cores	Yellow/Green	Blue	Brown		
4 Cores	Yellow/Green	-	Brown	Black	Grey
4 Cores	Yellow/Green	Blue	Brown	Black	
5 Cores	Yellow/Green	Blue	Brown	Black	Grey

Cables and cords without a green-and-yellow cores

No. of cores	Colour of cores				
2 Cores	Blue	Brown			
3 Cores	-	Brown	Black	Grey	
3 Cores	Blue	Brown	Black		
4 Cores	Blue	Brown	Black	Grey	
5 Cores	Blue	Brown	Black	Grey	Black

Sheath Colour: Black (other colors upon request)

Physical And Thermal Properties

Maximum temperature range during operation (PVC)	60°C
Maximum short circuit temperature (5 Seconds)	150°C
Minimum bending radius	Up to 12mm ² : 3 x overall diameter Above 12mm ² : 4 x overall diameter

Construction Parameters

No. of Core X Cross Section							Approx. Weight
	Nominal Thickness	Insulation	Nominal Thickness	Sheath	Maximum Diameter	Overall	
No x mm ²	mm		mm		mm		kg/km
2x0.75	0.6		0.8		7.2		57
2x1.0	0.6		0.8		7.5		65
2x1.5	0.7		0.8		8.6		87
2x2.5	0.8		1.0		10.6		134
2x4	0.8		1.1		12.1		174
3x0.75	0.6		0.8		7.6		68
3x1.0	0.6		0.8		8.0		79
3x1.5	0.7		0.9		9.4		111
3x2.5	0.8		1.1		11.4		169
3x4	0.8		1.2		13.1		233
4x0.75	0.6		0.8		8.3		84
4x1.0	0.6		0.9		9.0		101
4x1.5	0.7		1.0		10.5		142
4x2.5	0.8		1.1		12.5		211

4x4	0.8	1.2	14.3	292
5x0.75	0.6	0.9	9.3	106
5x1.0	0.6	0.9	9.8	123
5x1.5	0.7	1.1	11.6	176
5x2.5	0.8	1.2	13.9	262
5x4	0.8	1.4	16.1	369

Electrical Properties

Current-Carrying Capacities (Amp) according to BS7671:2008 table 4F3A

Conductor cross-sectional area	Single-phase a.c.	Three-phase a.c.
mm²	A	A
0.5	3	3
0.75	6	6
1.0	10	10
1.5	16	16
2.5	25	20
4	32	25

Voltage Drop (Per Amp Per Meter) according to BS7671:2008 table 4F3B

Conductor cross-sectional area	d.c. or single-phase a.c.	Three-phase a.c.
mm²	mV/A/m	mV/A/m
0.5	93	80
0.75	62	54
1.0	46	40
1.5	32	27
2.5	19	16
4	12	10