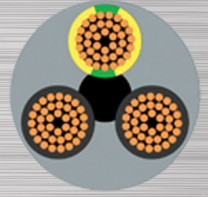




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PVC 3 x 1.5 mm² 399 / 599u



YY PVC MULTICORE CABLE

A 300/500 volt PVC insulated and sheathed flexible cable for applications where cable flexibility will simplify installation.

A wide range of core configurations and conductor sizes enables the YY product to be very versatile for energy distribution and control applications.

CONSTRUCTION

Plain copper class 5 conductor, with PVC insulation number coded, or colour coded, with green yellow CPC. Cores twisted together with grey PVC sheath overall.

TECHNICAL DATA

Generally to VDE 0250 BS EN 50525-1 BS EN 50525-2-51 BS EN 50525-2-11

Nominal Voltage	300/500v
Test Voltage	4000v
Operating Temperature Static	-40°C to +80°C
Operating Temperature Flexing	-5°C to +70°C
Bending Radius	6 times overall diameter (Static) 12 times overall diameter (Flexing)
Current Rating Table	4F3A & 4F3B

YY DIMENSIONS

Cores x mm ²	Nom OD mm	Weight kg / km	Cores x mm ²	Nom OD mm	Weight kg / km
2 x 0.5	5.1	38	2 x 4.0	9.2	160
3 x 0.5	5.4	45	3 x 4.0	10.1	195
4 x 0.5	5.9	55	4 x 4.0	11.1	250
5 x 0.5	6.6	68	5 x 4.0	12.2	315
6 x 0.5	6.9	71	7 x 4.0	13.4	360
7 x 0.5	7.1	76	3 x 6.0	11.6	280
8 x 0.5	7.9	96	4 x 6.0	13.1	355
12 x 0.5	9.6	140	5 x 6.0	12.5	391
18 x 0.5	11.8	195	7 x 6.0	14.9	519
2 x 0.75	5.5	48	3 x 10.0	14.4	455
3 x 0.75	5.9	58	4 x 10.0	16.1	585
4 x 0.75	6.4	70	5 x 10.0	17.1	650
5 x 0.75	6.9	82	7 x 10.0	18.8	844
6 x 0.75	7.1	88	3 x 16.0	20.1	780
7 x 0.75	7.7	96	4 x 16.0	21.6	960
8 x 0.75	8.1	115	5 x 16.0	24.1	1210
12 x 0.75	9.7	160	7 x 16.0	26.2	1495
18 x 0.75	11.9	230	4 x 25.0	27.1	1460
25 x 0.75	13.4	289	5 x 25.0	29.5	1850
2 x 1.0	6.1	57	4 x 35.0	33.1	2120
3 x 1.0	6.5	68	5 x 35.0	36.6	2750
4 x 1.0	7.1	85	4 x 50.0	34.3	2605
5 x 1.0	7.6	105	4 x 70.0	38.5	3450
7 x 1.0	8.3	120	4 x 95.0	43.2	4540
8 x 1.0	8.8	135			
12 x 1.0	11.1	199			
18 x 1.0	12.8	280			
25 x 1.0	14.3	346			
2 x 1.5	6.6	73			
3 x 1.5	7.1	90			
4 x 1.5	7.7	110			
5 x 1.5	8.5	138			
7 x 1.5	9.3	160			
8 x 1.5	9.9	180			
12 x 1.5	12.3	260			
18 x 1.5	14.6	380			
25 x 1.5	16.9	490			
34 x 1.5	18.8	642			
2 x 2.5	7.9	110			
3 x 2.5	8.2	130			
4 x 2.5	9.1	168			
5 x 2.5	10.1	200			
7 x 2.5	11.1	230			
12 x 2.5	14.1	390			
18 x 2.5	18.2	590			
25 x 2.5	20.7	786			



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YY PVC MULTICORE CABLE

Table 4F3A
Flexible cords, non-armoured (Copper Conductors)

CURRENT-CARRYING CAPACITY (amperes): and MASS SUPPORTABLE (kg):

Conductor Cross sectional area	Current carrying capacity		Maximum mass supportable by twin flexible cord (see regulations 522.7.2 & 559.6.1.5)
	Single-phase a.c.	Three-phase a.c.	
1	2	3	4
(mm ²)	(A)	(A)	(kg)
0.5	3	3	2
0.75	6	6	3
1	10	10	5
1.25	13	-	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

NOTES:

Where cable is on a reel see the notes to Table 4F1A

RATING FACTOR FOR AMBIENT TEMPERATURE					
60°C thermoplastic or thermosetting insulated cords:					
Ambient Temp (°C)	35	40	45	50	55
Rating Factor	0.91	0.82	0.71	0.58	0.41

RATING FACTOR FOR AMBIENT TEMPERATURE						
180°C thermosetting insulated cords:						
Ambient Temp (°C)	35 to 120	125	130	135	140	145
Rating Factor	1.0	0.96	0.85	0.74	0.60	0.42

RATING FACTOR FOR AMBIENT TEMPERATURE						
90°C thermoplastic or thermosetting insulated cords:						
Ambient Temp (°C)	35 to 50	55	60	65	70	-
Rating Factor	1.0	0.96	0.83	0.67	0.47	-

RATING FACTOR FOR AMBIENT TEMPERATURE						
Glass fibre cords:						
Ambient Temp (°C)	35 to 150	155	160	165	170	175
Rating Factor	1.0	0.92	0.82	0.71	0.57	0.40

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YY PVC MULTICORE CABLE

TABLE 4F3B

Flexible cords, non-armoured (Copper Conductors)

VOLTAGE DROP (per ampere per metre)

Conductor operating temperature: 60°C*

Conductor Cross sectional area	d.c or Single-phase a.c.	Three-phase a.c.
1	2	3
(mm ²)	(mV/A/m)	(mV/A/m)
0.5	93	80
0.75	62	54
1	46	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10

NOTES:

* The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

90°C thermoplastic or thermosetting insulated	1.09
180°C thermosetting insulated	1.31
185°C glass fibre	1.43

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