

POLYCAB[®]

WIRES & CABLES



ISO
9001:2000



PVC FLEXIBLE WIRES & CABLES



TABLE NO. 1
"POLYCAB" PLAIN COPPER CONDUCTOR, PVC INSULATED UNSHEATHED 650/1100 V, SINGLE CORE CABLES
FOR PANEL BOARD WIRING AS PER IS:694/1990 WITH ISI MARK (UP TO 50 SQ. MM)

Area in Sq. mm	Conductor Construction in General	Cond. Dia. in mm	Max. DC Resistance Ohm/Km At 20°C	Insulation Thickness in mm Nominal	Cables Dia (Approx.)	Current Rating in Amp.	Area in Sq. mm	Conductor Construction in General	Conductor Dia. In mm	Max DC Resistance Ohm/Km At 20°C	Insulation Thickness in mm Nominal	Cable Dia (Approx.)	Current Rating In Amp.
0.50	16/0.20	0.94	39.00	0.60	2.20	4	70	360/0.50	12.30	0.272	1.6	15.5	170
0.75	24/0.20	1.20	26.00	0.60	2.50	7	95	485/0.50	14.70	0.206	1.8	18.5	210
1.00	32/0.20	1.34	19.50	0.60	2.60	11	120	608/0.50	16.70	0.161	2.0	20.9	235
1.50	*30/0.25	1.64	13.30	0.60	2.90	14	150	750/0.50	18.30	0.129	2.0	22.5	295
2.50	**50/0.25	2.08	7.98	0.70	3.50	19	185	925/0.50	20.00	0.106	2.2	24.6	330
4.00	56/0.30	2.61	4.95	0.80	4.30	26	240	1221/0.50	23.00	0.0801	2.2	27.6	400
6.00	84/0.30	3.50	3.300	0.80	5.30	33	300	1527/0.50	27.20	0.0641	2.4	32.2	475
10.00	140/0.30	4.60	1.910	1.00	6.70	45	400	2036/0.50	30.50	0.0486	2.6	35.7	550
16.00	126/0.40	6.00	1.210	1.00	8.20	60	500	2540/0.5	32.00	0.0384	2.8	38.0	635
25.00	196/0.40	7.60	0.780	1.20	10.00	75	630	3200/0.5	39.00	0.0287	3.0	45.5	725
35.00	276/0.40	8.70	0.554	1.20	11.3	95	800	4100/0.5	44.00	0.0224	3.4	51.0	840
50.00	396/0.40	10.60	0.386	1.40	13.5	125	1000	5100/0.5	46.00	0.0178	3.4	53.0	950

NOTE : Cable above 50 Sq. mm are not covered by IS:694 But are as per IS-2465

* This size can be supplied in 48/0.2 construction.

** This size can be supplied in 80/0.2 construction

THE ABOVE DATA IS INDICATIVE AND MAY BE REVISED WITHOUT PRIOR INFORMATION

TABLE NO. 2

**“POLYCAB” PLAIN COPPER CONDUCTOR, PVC INSULATED AND SHEATHED 650/1100 V,
MULTICORE FLEXIBLE CABLES AS PER IS:694/1990 WITH ISI MARK**

Area in Sq. mm	Construction No./Dia	Cond. Dia. in mm	Max. DC resistance Ohm/Km at 20°C	Insulation thickness nominal mm	Core dia. mm	Sheath thickness in mm nominal			Overall Diameter in mm approx.			Current Rating Amp.
						2 core	3 core	4 core	2 core	3 core	4 core	
0.50	16/0.2	0.94	39.00	0.60	2.20	0.90	0.90	0.90	6.20	6.60	7.20	4
0.75	24/0.2	1.20	26.00	0.60	2.50	0.90	0.90	0.90	6.80	7.20	7.90	7
1.00	32/0.2	1.34	19.50	0.60	2.60	0.90	0.90	0.90	7.00	7.50	8.10	11
1.50	*30/0.25	1.64	13.30	0.60	2.90	0.90	0.90	1.00	7.60	8.10	9.00	14
2.50	**50/0.25	2.08	7.98	0.70	3.50	1.00	1.00	1.00	9.00	9.60	10.50	19
4.00	56/0.3	2.61	4.95	0.80	4.30	1.00	1.00	1.00	10.60	11.30	12.40	26

* This size can be supplied in 48/0.2 construction.

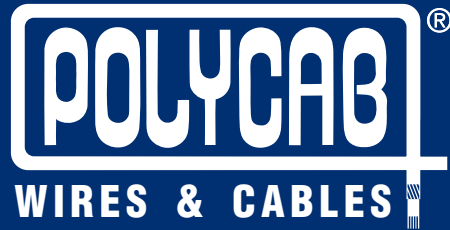
** This size can be supplied in 80/0.2 construction

TABLE NO. 3

“POLYCAB” PLAIN COPPER CONDUCTOR, PVC INSULATED AND SHEATHED 650/1100 V, MULTICORE FLEXIBLE CABLES

Area in Sq. mm	Construction No./Dia	Cond. Dia. in mm	Max. DC resistance Ohm/Km at 20°C	Insulation thickness nominal mm	Core dia. mm	Sheath thickness in mm nominal			Overall Diameter in mm approx.			Current Rating Amp.
						2 core mm	3 core	4 core	2 core	3 core	4 core	
6	84/0.3	3.50	3.30	0.80	5.10	1.15	1.15	1.40	12.60	13.40	15.20	33
10	140/0.3	4.60	1.91	1.00	6.60	1.40	1.40	1.40	16.00	17.00	18.80	45
16	126/0.4	6.00	1.21	1.00	8.00	1.40	1.40	1.40	18.80	20.10	22.20	60
25	196/0.4	7.60	0.780	1.20	10.00	2.00	2.00	2.00	24.00	25.60	28.20	75
35	276/0.4	8.70	0.554	1.20	11.10	2.00	2.00	2.00	26.30	28.00	31.00	95
50	396/0.4	10.60	0.386	1.40	13.40	2.00	2.00	2.00	30.90	33.00	36.50	125
70	360/0.5	12.30	0.272	1.40	15.10	2.00	2.20	2.40	34.20	37.00	41.00	170
95	485/0.5	14.70	0.206	1.60	17.90	2.20	2.40	2.40	40.20	43.50	47.80	210

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TABLE NO. 4
“POLYCAB” MULTICORE ROUND FLEXIBLE CABLE (6 CORES TO 30 CORES)
GENERALLY AS PER IS : 694/1990

Area Sq. MM		0.50	0.75	1.00	1.50	2.50	4.00
General Construction no./dia		16/0.2	24/0.2	32/0.2	*30/0.25	**50/0.25	56/0.3
Conductor Dia in MM		0.94	1.20	1.34	1.64	2.08	2.61
Avg. Insu. thickness in MM		0.60	0.60	0.60	0.60	0.70	0.80
Core Dia in MM		2.20	2.50	2.60	2.90	3.50	4.30
No. of Cores							
6	Avg. Sheath thickness MM	0.90	1.00	1.00	1.00	1.10	1.20
	App. Overall Dia MM	8.50	9.50	9.80	10.70	12.70	15.30
7	Avg. Sheath thickness MM	0.90	1.00	1.00	1.00	1.10	1.20
	App. Overall Dia MM	8.50	9.50	9.80	10.70	12.70	15.30
8	Avg. Sheath thickness MM	1.00	1.00	1.00	1.10	1.20	1.30
	App. Overall Dia MM	9.30	10.40	10.70	11.90	14.10	16.90
10	Avg. Sheath thickness MM	1.00	1.10	1.10	1.10	1.30	1.40
	App. Overall Dia MM	10.80	12.20	12.60	13.80	16.60	20.00
12	Avg. Sheath thickness MM	1.00	1.10	1.10	1.10	1.30	1.40
	App. Overall Dia MM	11.20	12.60	13.00	14.30	17.20	20.70
14	Avg. Sheath thickness MM	1.10	1.10	1.10	1.20	1.30	1.40
	App. Overall Dia MM	12.00	13.30	13.70	15.20	18.10	21.80
16	Avg. Sheath thickness MM	1.10	1.20	1.20	1.20	1.40	1.50
	App. Overall Dia MM	12.60	14.20	14.60	16.00	19.30	23.20
19	Avg. Sheath thickness MM	1.10	1.20	1.30	1.30	1.40	1.50
	App. Overall Dia MM	13.20	14.90	15.60	17.10	20.30	24.50
24	Avg. Sheath thickness MM	1.20	1.30	1.30	1.40	1.40	1.50
	App. Overall Dia MM	15.60	17.60	18.20	20.20	23.80	28.80
30	Avg. Sheath thickness MM	1.30	1.30	1.30	1.40	1.40	1.50
	App. Overall Dia MM	16.80	18.70	19.30	21.50	25.70	30.60
	Max. Conductor Resistance in OHm/Km at 20°C.	39.00	26.00	19.50	13.30	7.98	4.95
	Recommended Current Rating in AMP	4	7	11	14	19	26

* This size can be supplied in 48/0.2 construction.

** This size can be supplied in 80/0.2 construction

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POLYCAB WILL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF INCORRECT APPLICATION

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