

POLYCAB WIRES PVT LTD

TECHNICAL DETAILS



PVC WIRES & FLEXIBLES

"POLYCAB" PLAIN COPPER CONDUCTOR, PVC INSULATED UNSHEATHED 650 / 1100 V, SINGLE CORE CABLE FOR PANEL BOARD WIRING AS PER IS : 694 / 1990 WITH ISI MARK (UPTO 50 SQ.MM)

AREA IN SQ.MM	CONDUCTOR CONSTRUCTION IN GENERAL	MAX.DC RESISTANCE OHM/KM AT 20 DEGC	INSULATION THICKNESS IN MM	CABLE DIA (APPX.)	CURRENT RATING IN AMP.
0.50	16/0.20	39.00	0.60	2.20	4
0.75	24/0.20	26.00	0.60	2.50	7
1.00	32/0.20	19.50	0.60	2.60	12
1.50	30/0.25	13.30	0.60	2.90	16
2.50	50/0.25	7.98	0.70	3.50	22
4.00	56/0.30	4.95	0.80	4.30	29
6	84/0.30	3.300	0.80	5.30	37
10	140/0.30	1.910	1.00	6.70	51
16	126/0.40	1.210	1.00	8.20	68
25	196/0.40	0.780	1.20	10.00	86
35	276/0.40	0.554	1.20	11.3	110
50	396/0.40	0.386	1.40	13.5	145
NOTE: Cable above 50 sq.mm are not covered by IS : 694 But are as per IS : 2465					
70	360/0.50	0.272	1.60	15.5	161
95	485/0.50	0.206	1.80	18.5	200
120	608/0.50	0.161	2.00	20.9	225
150	750/0.50	0.129	2.00	22.5	240
185	925/0.50	0.106	2.20	24.6	300
240	1221/0.50	0.0801	2.20	27.6	425
300	1527/0.50	0.0641	2.40	32.2	475
400	2036/0.50	0.0486	2.60	35.7	550

"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 DEG.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	12
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	16
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	22
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	29

"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 DEG.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	
6.00	84/0.3	3.5	3.30	0.80	5.10	1.15	1.15	1.40	12.60	13.40	15.20	37
10.00	140/0.3	4.60	1.91	1.00	6.60	1.40	1.40	1.40	16.00	17.00	18.80	51
16.00	126/0.4	6	1.21	1.00	8.00	1.40	1.40	1.40	18.80	20.10	22.20	68
25.00	196/0.4	7.6	0.78	1.20	10.00	2.00	2.00	2.00	24.00	25.60	28.20	86
35.00	276/0.4	8.7	0.554	1.20	11.10	2.00	2.00	2.00	26.30	28.00	31.00	110
50.00	396/0.4	10.6	0.386	1.40	13.40	2.00	2.00	2.00	30.90	33.00	36.50	145
70.00	360/0.5	12.3	0.272	1.40	15.10	2.00	2.20	2.40	34.20	37.00	41.00	215
95.00	485/0.5	14.7	0.206	1.60	17.90	2.20	2.40	2.40	40.20	43.50	47.80	260

"POLYCAB" MULTICORE ROUND FLEXIBLE CABLES (6 CORES TO 19 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 deg.C	39.00	26.00	19.50	13.30	7.98	4.95
	Recommended Current Rating in AMP	4	7	12	16	22	29