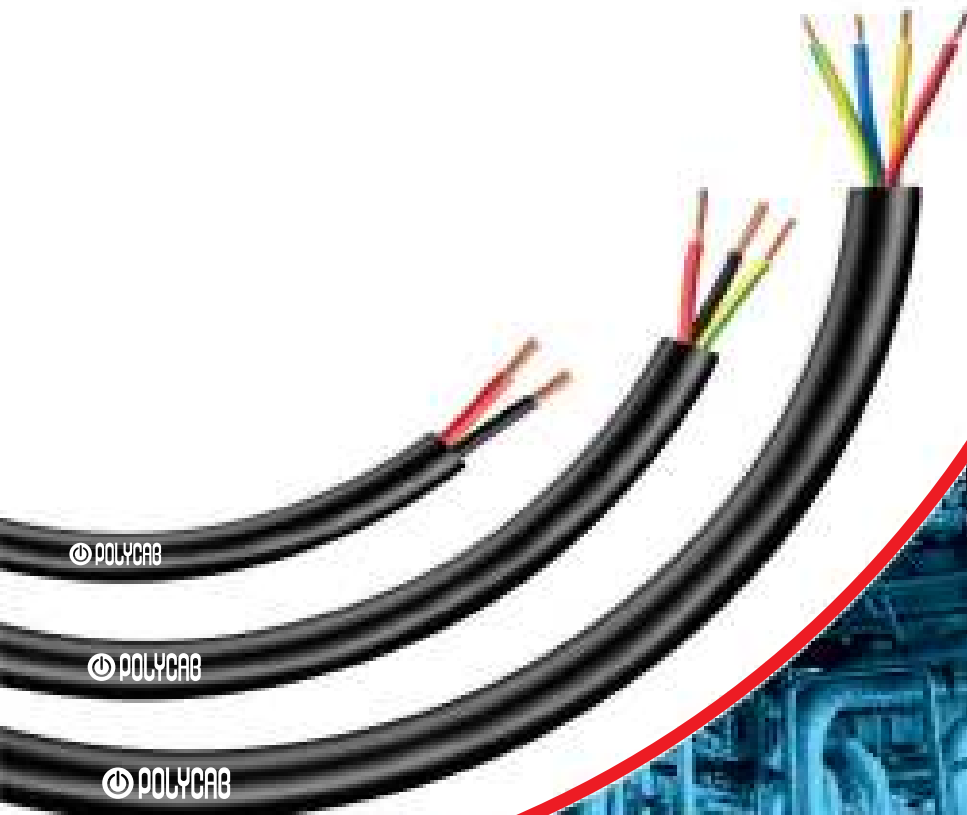




# POLYCAB

*Connection Zindagi Ka*

**PVC Flexible Wires & Cables**



**ISO**  
9001:2008

**ISO**  
14001:2004

**OHSAS**  
18001:2007

  
IS 7098 (Part I)

Polycab is a market leader in power, control and industrial cables. Polycab is the fastest growing company in cable industry, offering the widest range of cables. Polycab single & multi core PVC Industrial cables find a wide range of applications in the control panels, appliances, machine tools, machinery and are used in almost every industry.

**Conductors :** The conductors are drawn from bright electrolytic grade copper, annealed and bunched together (multi-standed) as per class 5 of IS 8130 : 2013

**Insulation:** Bunched conductors are insulated with specially formulated in-house developed PVC compound having high insulation resistance value. The insulation process is carried out on modern high speed extrusion lines with a high degree of accuracy, thus ensuring consistency in performance.

**Sheathing :** In case of multi core cable, the insulated cores are laid up to form the core assembly, Sheathing is provided with specially formulated PVC compound to facilitate stripping as also to withstand mechanical abrasion while in use.

**Quality Control :** You are assured of the highest quality standards in every Polycab product. Stringent quality control tests are applied at every stage from raw material to finished goods stage so as to give you the best product, meeting relevant quality standards.

Polycab PVC insulated Industrial Cables are manufactured as per IS 694 : 2010, in single core sizes from 0.5 sq. mm to 50 sq. mm and multi core sheathed cables in sizes 0.5 sq. mm to 4 sq. mm upto 5 cores. These cable sizes are ISI marked and are duly approved by FIA/TAC. The remaining sizes generally conform to IS 694 : 2010.

Cables as per BS EN : 50525 and BS EN : 50525 can be made available for export market. Special purpose braided cables/screened instrumentation cables are also available.

## ■ SINGLE CORE / MULTI CORE INDUSTRIAL CABLES AS PER IS 694 - 2010 VOLTAGE GRADE UP TO 1100 VOLTS

### ■ TABLE NO.1

POLYCAB BARE COPPER CONDUCTOR, PVC INSULATED UNSHEATHED 1100 V, SINGLE CORE INDUSTRIAL WIRE AND CABLE FOR PANEL BOARD AS PER IS : 694 - 2010 WITH ISI MARK (UP TO 50 SQ.MM)

Nominal Area in Sq. mm.	Max. DC Resistance Ohm/Km at 20°C	Nominal Insulation Thickness in mm.	Outer Diam (Approx)	Current Rating in Amps.	Nominal Area in Sq. mm.	Max. DC Resistance Ohm/Km at 20°C	Nominal Insulation Thickness in mm.	Outer Diam (Approx)	Current Rating in Amps.
0.50	39.00	0.60	2.1	4	70	0.272	1.4	13.44	215
0.75	26	0.60	2.27	7	95	0.206	1.6	15.46	260
1.00	19.50	0.60	2.44	12	120	0.161	1.6	17.16	305
1.50	13.30	0.60	2.66	16	150	0.129	1.8	19.08	355
2.50	7.98	0.70	3.27	22	185	0.106	2.0	21.2	415
4.00	4.95	0.80	3.99	29	240	0.0801	2.2	24.12	500
6.00	3.300	0.80	4.52	37	300	0.0641	2.4	27.04	585
10.00	1.910	1.00	5.9	51	400	0.0486	2.6	30.5	695
16.00	1.210	1.00	7.0	68	500	0.0384	2.8	34.96	790
25.00	0.780	1.20	8.77	86	630	0.0287	2.8	37.98	905
35.00	0.554	1.20	9.67	110	800	0.0224	3.2	43.72	1050
50.00	0.386	1.40	11.44	145	1000	0.0178	3.2	47.72	1185

**NOTE :** Industrial cables above 50 Sq. mm are not covered by IS : 694 but are as per IS. 2465. The conductor will be multi-standed as per class 5 of IS 8130 : 1984

**TABLE NO.2**

POLYCAB BARE COPPER CONDUCTOR, PVC INSULATED AND SHEATHED 1100V MULTICORE INDUSTRIAL CABLES AS PER IS:694/1990 WITH ISI MARK

Nominal Area in Sq. mm.	Max. DC Resistance Ohm/Km at 20°C	Nominal Insulation Thickness in mm.	Core diam. (mm.)	Nominal Sheath Thickness in mm.			Overall Diameter in mm. (Approx)			Current Rating in Amps.		
				2 core	3 core	4 core	2 core	3 core	4 core	2 core	3 core	4 core
0.50	39.00	0.60	2.20	0.90	0.90	0.90	6.08	6.41	6.96	4	3	3
0.75	26.00	0.60	2.40	0.90	0.90	0.90	6.44	6.8	7.39	7	6	6
1.00	19.50	0.60	2.60	0.90	0.90	0.90	6.78	7.17	7.8	12	10	10
1.50	13.30	0.60	2.80	0.90	0.90	1.00	7.22	7.65	8.34	16	14	14
2.50	7.98	0.70	3.50	1.00	1.00	1.00	8.64	9.16	10.01	20	18	18
4.00	4.95	0.80	4.30	1.00	1.00	1.00	10.08	10.94	11.98	27	24	24

**TABLE NO.3**

POLYCAB PLAIN COPPER CONDUCTOR, PVC INSULATED AND SHEATHED 1100 V MULTICORE INDUSTRIAL CABLES

Nominal Area in Sq. mm.	Max. DC Resistance Ohm/Km at 20°C	Nominal Insulation Thickness in mm.	Core diam. (mm.)	Nominal Sheath Thickness in mm.			Overall Diameter in mm. (Approx)			Current Rating in Amps.		
				2 core	3 core	4 core	2 core	3 core	4 core	2 core	3 core	4 core
6	3.30	0.80	4.80	1.10	1.20	1.20	11.36	12.28	13.46	34	30	30
10	1.91	1.00	6.30	1.30	1.40	1.40	14.50	15.66	17.28	44	39	39
16	1.21	1.00	7.30	1.40	1.40	1.40	16.94	18.06	19.88	61	55	55
25	0.780	1.20	9.10	1.40	1.50	1.60	20.48	22.10	24.58	69	60	60
35	0.554	1.20	10.10	1.60	1.60	1.70	22.70	24.85	26.98	88	77	77
50	0.386	1.40	11.90	2.00	2.00	2.00	27.04	28.89	31.86	116	102	102
70	0.272	1.40	13.90	2.20	2.20	2.20	31.48	33.65	37.15	155	140	140
95	0.206	1.60	16.30	2.40	2.40	2.40	35.94	38.43	42.45	190	165	165

## TABLE NO.4

POLYCAB MULTICORE ROUND INDUSTRIAL CABLE (6 CORES TO 30 CORES) 1100 V GENERALLY CONFORMING TO IS : 694 / 2010

<b>Area Sq. m</b>	0.50	0.75	1.00	1.50	2.50	4.00	
<b>Conductor Diam in mm.</b>	0.94	1.20	1.34	1.64	2.08	2.61	
<b>Avg. Insu thickness mm.</b>	0.60	0.60	0.60	0.60	0.70	0.80	
<b>Core Diam in mm.</b>	2.20	2.50	2.60	2.90	3.50	4.30	
No of Cores							
<b>6</b>	<b>Avg. Sheath thickness mm.</b>	0.90	1.00	1.00	1.00	1.10	1.20
	<b>App Overall Diam mm.</b>	8.17	8.91	9.42	10.08	12.13	14.50
<b>7</b>	<b>Avg. Sheath thickness mm.</b>	0.90	1.00	1.00	1.00	1.10	1.20
	<b>App Overall Diam mm.</b>	8.17	8.91	9.42	10.08	12.13	14.71
<b>8</b>	<b>Avg. Sheath thickness mm.</b>	1.00	1.00	1.00	1.10	1.20	1.30
	<b>App Overall Diam mm.</b>	9.01	9.82	10.38	11.11	13.55	15.93
<b>10</b>	<b>Avg. Sheath thickness mm.</b>	1.00	1.10	1.10	1.10	1.30	1.40
	<b>App Overall Diam mm.</b>	10.46	11.40	12.08	12.96	15.82	18.90
<b>12</b>	<b>Avg. Sheath thickness mm.</b>	1.00	1.10	1.10	1.10	1.30	1.40
	<b>App Overall Diam mm.</b>	10.79	11.76	12.47	13.39	16.34	19.54
<b>14</b>	<b>Avg. Sheath thickness mm.</b>	1.10	1.10	1.10	1.20	1.30	1.40
	<b>App Overall Diam mm.</b>	11.74	12.33	13.08	14.25	17.16	20.76
<b>16</b>	<b>Avg. Sheath thickness mm.</b>	1.10	1.20	1.20	1.20	1.40	1.50
	<b>App Overall Diam mm.</b>	12.14	13.19	14.0	15.02	18.31	21.91
<b>19</b>	<b>Avg. Sheath thickness mm.</b>	1.10	1.20	1.30	1.30	1.40	1.50
	<b>App Overall Diam mm.</b>	12.77	13.87	14.94	16.04	19.29	23.11
<b>24</b>	<b>Avg. Sheath thickness mm.</b>	1.20	1.30	1.40	1.40	1.50	1.60
	<b>App Overall Diam mm.</b>	15.06	16.36	17.58	18.9	22.98	27.20
<b>30</b>	<b>Avg. Sheath thickness mm.</b>	1.30	1.30	1.40	1.40	1.50	1.60
	<b>App Overall Diam mm.</b>	16.17	17.29	18.38	19.99	23.90	28.94
	<b>Max Conductor Resistance in Ohm/km at 20°C</b>	39.00	26.00	19.50	13.30	7.98	4.95
	<b>Recommended Current Rating in AMP</b>	4	7	12	16	22	29

The above data is indicative and may be revised without prior information. • Polycab will not be liable for any damages arising out of incorrect application.

Corporate Office:

**POLYCAB INDIA LIMITED** (formerly known as 'Polycab Wires Limited')

Polycab House, 771, Mogul Lane, Mahim (W), Mumbai - 400 016, Maharashtra (India)

Ph.: +91-22-2432 7070/4, 6735 1400, Email: enquiry@polycab.com, Toll Free No.: 1800 267 0008, www.polycab.com