



**PVC Insulated
Tri-Rated Single Core Flexible
Panel Board Wires - 105°C**



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Polycab is India's largest Cable and Wire manufacturing company with 40 years of experience in manufacturing and marketing of these products. It has over the period earned the confidence of Builders and Contractors, Panel Board Manufacturers, Electrical Consultants and Architects. Polycab Wires are manufactured on world class extruders, tested at every stage and supervised by experienced engineers. Twin (co-extruded) insulation ensures superior insulation and increased electrical properties.

Polycab's Quality Management System conforms to ISO 9001: 2008, ISO 14001:2004, OHSAS 18001: 2007 International Quality System Standard and is certified by UL.

Polycab PVC insulated Tri-rated Electrical Wires used as Panel Board Wires for Export Market conform to BS 6231 standards.

CONDUCTORS: 8 mm EC Grade Wire Rod of 99.97% purity copper is drawn and annealed on-line to the required conductor size meeting the requirements of class 5 in BS 6360 specifications ensuring minimum energy losses. Bunched conductors form the required size.

INSULATION: Virgin grade Heat Resistant PVC ensures reliable insulation properties to sustain conductor operating temperatures of 105°C. over a long operational life of the wires. They fully conform to PVC grade Type TI 1 of BS 7655 (formerly BS 6746) for electric supply upto and including 600 V AC / 1000 V DC.

COLOUR: Single Core wires are supplied in Red, Yellow, Blue, Black, Grey and Green / Yellow.

FINISH AND PRINTING: Polycab Wires have a smooth finish and are printed with POLYCAB, size, voltage grade, standards and country of origin i.e.India.

The detailed range, conductor construction, insulation thickness and current ratings for Tri-rated Wires for Switchgear and Controlgear wiring are given in the tabulation as under.

Sizes in sq. mm	Conductor Construction strands/dia as per	Minimum Thickness in mm	Max. DC Resistance at 20° C (Ohms/Km)	Nominal Overall Diameter in mm	Current Carrying Capacity for 2 cables (1-phase, AC or DC)
0.5	Class 5	0.8	39	2.6	11
0.75	Class 5	0.8	26	2.8	14
1.0	Class 5	0.8	19.5	3.0	17
1.5	Class 5	0.8	13.3	3.3	21
2.5	Class 5	0.8	7.98	3.7	30
4	Class 5	0.8	4.95	4.4	41
6	Class 5	0.8	3.3	5.1	53
10	Class 5	1.14	1.91	6.9	75
16	Class 5	1.55	1.21	8.6	100
25	Class 5	1.55	0.78	10.5	136
35	Class 5	1.55	0.554	11.9	167
50	Class 5	2.05	0.386	14.4	204
70	Class 5	2.05	0.272	16.7	259
95	Class 5	2.05	0.206	19.0	321

• 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.

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