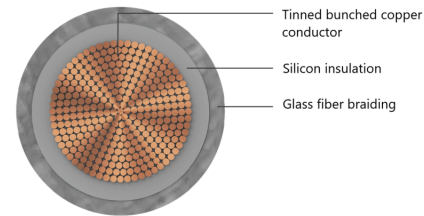


# POLYCAB SiR-G, IS 9968-1

## Rubber power and control Cable, 1100 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB SiR-G, silicon rubber insulated glass fibre braided cable conforming to IS 9968-1 are designed to use in flexible wiring, single phase or three phase (earthed or unearthed) system for rated voltage up to and including 1100 V. These cables may be used on DC system for rated voltage grade 1500 V to earth. These cables are suitable to use for heater leads, electric iron leads, furnace and high temperature area.

### CHARACTERISTICS

**Voltage Rating**  
1100 V

**Operation Temperature**  
Fixed: -50°C to 150°C  
Maximum short circuit temperature 350°C

**Bending Radii**  
Fixed installation 12 x Overall Diameter  
Occasional 10 x Overall Diameter

### CONSTRUCTION

- Annealed tinned bunched electrolytic grade copper conductor to IS 8130, class 5
- Insulated by silicon rubber compound to IS IE 5, 6380
- Braided with glass fibre yarn, treated with varnish

**Core Identification**  
White / Red / Black / Yellow / Blue

**Test Voltage**  
3000 V AC

### STANDARD FOLLOWS

IS 8130:2013  
IS 6380:1984\*  
IS 9968:1988

### COMPLIANCE

Conductor resistance test IS 8130  
Insulation resistance IS 6380:1984\*  
Flammability IEC 60332-1-2

### OUR ACCREDITATIONS



### APPROVAL



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### WEIGHT & DIMENSION DATA :

No. of Cores	Nominal cross sectional area mm <sup>2</sup>	Insulation thickness mm	Overall diameter mm	Weight (Approx.) kg/km
1	0.5	1	3.14	14
1	0.75	1	3.34	17
1	1	1	3.51	20
1	1.5	1	3.79	25
1	2.5	1	4.24	36
1	4	1	4.78	53
1	6	1	5.36	73
1	10	1.2	6.70	120
1	16	1.2	7.74	178
1	25	1.4	9.41	272
1	35	1.4	10.60	370
1	50	1.6	12.50	526

### Electrical characteristics

#### Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm <sup>2</sup>	Current rating in air Amp.						Maximum DC conductor resistance 20°C Ω/km
	30°C	60°C	90°C	120°C	150°C	170°C	
0.5	23	20	17	13	9	5	40.1
0.75	30	26	22	17	11	6	26.7
1	35	31	26	20	13	7	20
1.5	44	38	32	25	17	8	13.7
2.5	61	53	45	35	23	12	8.21
4	82	71	60	47	31	16	5.09
6	104	91	77	60	39	20	3.39
10	148	129	108	85	56	28	1.95
16	197	173	145	114	75	38	1.24
25	263	230	193	151	99	51	0.795
35	327	286	240	188	124	63	0.565
50	413	362	304	238	157	80	0.393

Conductor maximum operating temperature 150°C

**POLYCAB SiR-G, IS 9968-1**  
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**De-rating factor**

**De-rating factor for 150°C insulated cable**

Air Temperature	150°C	155°C	160°C	170°C	180°C
De-Rating Factor	1	0.91	0.82	0.58	0.41

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