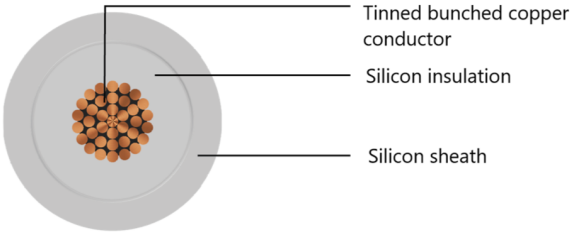
POLYCAB SiR-S, IS 9968-1
Rubber power and control Cable, 1100 V



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB SiR-S, silicon rubber insulated and silicon rubber sheathed Cable generally confirming to IS 9968-1is 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 in high temperature area especially in furnace and windmill generator.

CHARACTERISTICS

Voltage Rating
1100 V

Operation Temperature
Fixed: -50°C to 180°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 6380
• Sheathed with silicone rubber compound SE5 to IS 6380

Core Identification
White/Red/Yellow/Blue/Black

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

NABL

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POLYCAB
IDEAS. CONNECTED.

WEIGHT AND DIMENSION DATA :

No. of core	Nominal cross sectional area	Insulation thickness	Overall diameter	Weight (Approx.)
	mm²	mm	mm	kg/km
1	0.5	1	4.9	28
1	0.75	1	5.1	32
1	1	1	5.3	36
1	1.5	1	5.6	42
1	2.5	1	6.0	55
1	4	1	6.6	73
1	6	1	7.1	96
1	10	1.2	8.7	151
1	16	1.2	9.7	213
1	25	1.4	11.6	318
1	35	1.4	12.8	422
1	50	1.6	14.9	592
1	70	1.6	16.8	801
1	95	1.8	18.9	1066
1	120	1.8	20.7	1319
1	150	2	22.8	1615

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm²	Current rating in air Amp.						Maximum DC conductor resistance 20°C
	30°C	60°C	90°C	120°C	150°C	170°C	Ω/km
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	52	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

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Nominal cross sectional area mm²	Current rating in air Amp.						Maximum DC conductor resistance 20°C
	30°C	60°C	90°C	120°C	150°C	170°C	Ω/km
16	197	173	145	114	75	58	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
70	531	465	391	306	201	103	0.277
95	623	545	458	359	236	121	0.21
120	738	645	543	425	280	143	0.164
150	850	744	626	491	323	166	0.132

Conductor maximum operating temperature 180°C

De-rating factor

De-rating factor for 180°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