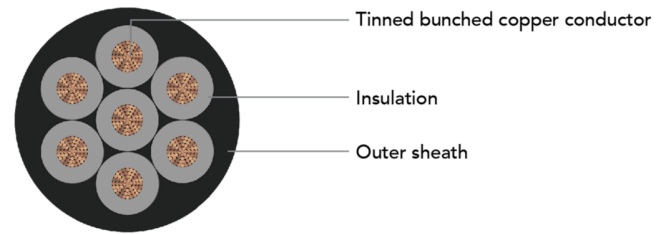


# POLYCAB RR-E MC, IS 9968-1

## Rubber control Cable, 1100 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB RR-E MC, IS 9968-1 tinned copper conductor, EPR insulated and HOFR elastomer sheathed cable conforming to IS 9968-1 is designed to use for fixed 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. Suitable to use in elevator, lifts, cranes, mines, heater leads and electric iron leads etc.

### CHARACTERISTICS

**Voltage Rating**  
1100 V

**Operation Temperature**  
Fixed: -40°C to 90°C  
Maximum short circuit temperature 250°C

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

### CONSTRUCTION

- Annealed tinned electrolytic grade copper conductor to IS 8130, class 5
- Insulated with elastomeric compound IE 2 to IS 6380
- Sheathed with HOFR (Heat and Oil resistant flame retardant) elastomer as per IS 6380.

#### Core Identification

Single core - Red/Black/White/Yellow/Blue  
Twin core - Red, Black  
Three core - Red, Yellow, Blue  
Four core - Red, Yellow, Blue, Green  
Five core - Red, Yellow, Blue, Black, Green  
More than Five core - Grey with Black numbering

**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



# POLYCAB RR-E MC, IS 9968-1

## Rubber control Cable, 1100 V AC

### WEIGHT & DIMENSIONAL DATA :

Product Code	Nominal cross sectional area mm <sup>2</sup>	No. of core	Nominal thickness of insulation mm	Overall diameter mm
RCIS09TRUEARE002C1.5SA002S	1.5	2	0.8	8
RCIS09TRUEARE003C1.5SA002S	1.5	3	0.8	8.5
RCIS09TRUEARE004C1.5SA002S	1.5	4	0.8	9.5
RCIS09TRUEARE005C1.5SA002S	1.5	5	0.8	10.5
RCIS09TRUEARE006C1.5SA002S	1.5	6	0.8	11.5
RCIS09TRUEARE007C1.5SA002S	1.5	7	0.8	11.5
RCIS09TRUEARE008C1.5SA002S	1.5	8	0.8	12.5
RCIS09TRUEARE010C1.5SA002S	1.5	10	0.8	16
RCIS09TRUEARE012C1.5SA002S	1.5	12	0.8	16.5
RCIS09TRUEARE014C1.5SA002S	1.5	14	0.8	17.5
RCIS09TRUEARE016C1.5SA002S	1.5	16	0.8	18.5
RCIS09TRUEARE019C1.5SA002S	1.5	19	0.8	19.5
RCIS09TRUEARE020C1.5SA002S	1.5	20	0.8	20.5
RCIS09TRUEARE024C1.5SA002S	1.5	24	0.8	23
RCIS09TRUEARE025C1.5SA002S	1.5	25	0.8	23
RCIS09TRUEARE027C1.5SA002S	1.5	27	0.8	23.5
RCIS09TRUEARE030C1.5SA002S	1.5	30	0.8	24
RCIS09TRUEARE036C1.5SA002S	1.5	36	0.8	27
RCIS09TRUEARE037C1.5SA002S	1.5	37	0.8	27
RCIS09TRUEARE002C2.5SA002S	2.5	2	0.9	9.5
RCIS09TRUEARE003C2.5SA002S	2.5	3	0.9	10
RCIS09TRUEARE004C2.5SA002S	2.5	4	0.9	11.5
RCIS09TRUEARE005C2.5SA002S	2.5	5	0.9	12.5
RCIS09TRUEARE006C2.5SA002S	2.5	6	0.9	13.5
RCIS09TRUEARE007C2.5SA002S	2.5	7	0.9	13.5
RCIS09TRUEARE008C2.5SA002S	2.5	8	0.9	16
RCIS09TRUEARE010C2.5SA002S	2.5	10	0.9	19
RCIS09TRUEARE012C2.5SA002S	2.5	12	0.9	19.5
RCIS09TRUEARE014C2.5SA002S	2.5	14	0.9	20.5
RCIS09TRUEARE016C2.5SA002S	2.5	16	0.9	20.5
RCIS09TRUEARE019C2.5SA002S	2.5	19	0.9	23
RCIS09TRUEARE020C2.5SA002S	2.5	20	0.9	24.5

# POLYCAB RR-E MC, IS 9968-1

## Rubber control Cable, 1100 V AC

Product Code	Nominal cross sectional area mm <sup>2</sup>	No. of core	Nominal thickness of insulation mm	Overall diameter mm
RCIS09TRUARE024C2.5SA002S	2.5	24	0.9	27.5
RCIS09TRUARE025C2.5SA002S	2.5	25	0.9	27.5
RCIS09TRUARE027C2.5SA002S	2.5	27	0.9	28
RCIS09TRUARE030C2.5SA002S	2.5	30	0.9	30
RCIS09TRUARE036C2.5SA002S	2.5	36	0.9	32
RCIS09TRUARE037C2.5SA002S	2.5	37	0.9	32

### Electrical characteristics :

Current carrying capacity and maximum DC conductor resistance.

	2 Core Cable	3 Core Cable	
mm <sup>2</sup>	Amp.	Amp.	Ω/km
1.5	26	23	13.7
2.5	36	32	8.21

Ambient temperature: 30°C

Conductor operating temperature: 90°C

Current carrying capacity in accordance with Table B.52.12 (free air) of IEC 60364 5-52

### De-Rating Factor

De-rating factor at various ambient temperature

Temperature (°C)	20	30	40	50	60	70	80
Rating factor	1.08	1	0.91	0.82	0.71	0.58	0.41