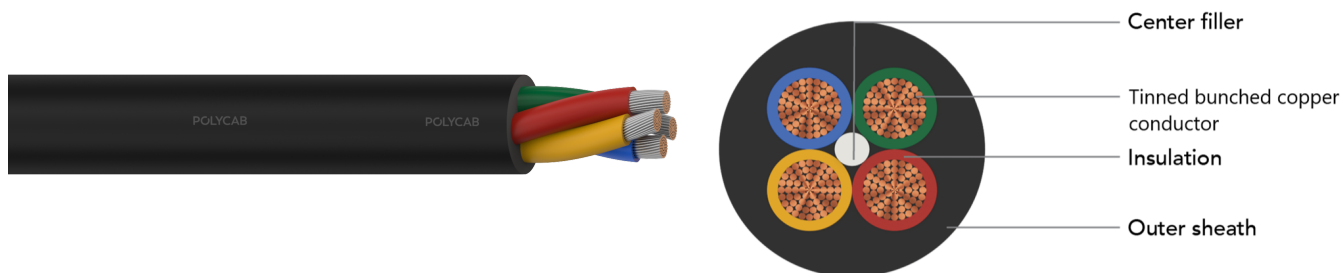


# POLYCAB RR-P, IS 9968-1

## Rubber power Cable, 1100 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB RR-P, IS 9968-1 tinned copper conductor, EPR insulated and PCP 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 where heat and oil resistant is prime importance.

### 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 (EPR) to IS 6380
- Sheathed with elastomer type PCP (Polychloroprene polymer) as per IS 6380.

#### Core Identification

Single core - Red/Black/White/Yellow/Blue

Two core - Red, Black

Three core - Red, Yellow, Blue

Four core - Red, Yellow, Blue, Green

Five core - Red, Yellow, Blue, Black, Green

#### 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



**WEIGHT & DIMENSION DATA :**

Product Code	Construction	Nominal thickness of insulation	Overall diameter (Approx.)
	n x mm <sup>2</sup>	mm	mm
RCIS09TRUARP001C004SA001S	1 C X 4	1	6.5
RCIS09TRUARP002C004SA001S	2 C X 4	1	11
RCIS09TRUARP003C004SA001S	3 C X 4	1	11.5
RCIS09TRUARP004C004SA001S	4 C X 4	1	13
RCIS09TRUARP005C004SA001S	5 C X 4	1	14.5
RCIS09TRUARP001C006SA001S	1 C X 6	1	8
RCIS09TRUARP002C006SA001S	2 C X 6	1	14
RCIS09TRUARP003C006SA001S	3 C X 6	1	14.5
RCIS09TRUARP004C006SA001S	4 C X 6	1	16.5
RCIS09TRUARP001C010SA001S	1 C X 10	1.2	10
RCIS09TRUARP002C010SA001S	2 C X 10	1.2	17.5
RCIS09TRUARP003C010SA001S	3 C X 10	1.2	18.5
RCIS09TRUARP004C010SA001S	4 C X 10	1.2	20.5
RCIS09TRUARP001C016SA001S	1 C X 16	1.2	11
RCIS09TRUARP002C016SA001S	2 C X 16	1.2	20
RCIS09TRUARP003C016SA001S	3 C X 16	1.2	22
RCIS09TRUARP004C016SA001S	4 C X 16	1.2	24
RCIS09TRUARP001C025SA001S	1 C X 25	1.4	12.5
RCIS09TRUARP002C025SA001S	2 C X 25	1.4	24.5
RCIS09TRUARP003C025SA001S	3 C X 25	1.4	26
RCIS09TRUARP3.5C025SA001S	3.5 C X 25	1.4	28.5
RCIS09TRUARP004C025SA001S	4 C X 25	1.4	28.5
RCIS09TRUARP001C035SA001S	1 C X 35	1.4	14
RCIS09TRUARP002C035SA001S	2 C X 35	1.4	26.5
RCIS09TRUARP003C035SA001S	3 C X 35	1.4	28.5
RCIS09TRUARP3.5C035SA001S	3.5 C X 35	1.4	32.5
RCIS09TRUARP004C035SA001S	4 C X 35	1.4	31.5
RCIS09TRUARP001C050SA001S	1 C X 50	1.6	16.5
RCIS09TRUARP002C050SA001S	2 C X 50	1.6	31
RCIS09TRUARP003C050SA001S	3 C X 50	1.6	33
RCIS09TRUARP3.5C050SA001S	3.5 C X 50	1.6	37.5

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Product Code	Construction	Nominal thickness of insulation	Overall diameter (Approx.)
	n x mm <sup>2</sup>	mm	mm
RCIS09TRUARP004C050SA001S	4 C X 50	1.6	36.5
RCIS09TRUARP001C070SA001S	1 C X 70	1.6	18.5
RCIS09TRUARP002C070SA001S	2 C X 70	1.6	34.5
RCIS09TRUARP003C070SA001S	3 C X 70	1.6	38
RCIS09TRUARP3.5C070SA001S	3.5 C X 70	1.6	42
RCIS09TRUARP004C070SA001S	4 C X 70	1.6	41
RCIS09TRUARP001C095SA001S	1 C X 95	1.8	21
RCIS09TRUARP002C095SA001S	2 C X 95	1.8	38.5
RCIS09TRUARP003C095SA001S	3 C X 95	1.8	42.5
RCIS09TRUARP3.5C095SA001S	3.5 C X 95	1.8	47
RCIS09TRUARP004C095SA001S	4 C X 95	1.8	46
RCIS09TRUARP001C120SA001S	1 C X 120	1.8	23
RCIS09TRUARP002C120SA001S	2 C X 120	1.8	42.5
RCIS09TRUARP003C120SA001S	3 C X 120	1.8	46
RCIS09TRUARP3.5C120SA001S	3.5 C X 120	1.8	51
RCIS09TRUARP004C120SA001S	4 C X 120	1.8	50.5
RCIS09TRUARP001C150SA001S	1 C X 150	2	25
RCIS09TRUARP002C150SA001S	2 C X 150	2	47
RCIS09TRUARP003C150SA001S	3 C X 150	2	51
RCIS09TRUARP3.5C150SA001S	3.5 C X 150	2	56.5
RCIS09TRUARP004C150SA001S	4 C X 150	2	55.5
RCIS09TRUARP001C185SA001S	1 C X 185	2.2	27.5
RCIS09TRUARP002C185SA001S	2 C X 185	2.2	51
RCIS09TRUARP003C185SA001S	3 C X 185	2.2	55.5
RCIS09TRUARP3.5C185SA001S	3.5 C X 185	2.2	62
RCIS09TRUARP004C185SA001S	4 C X 185	2.2	61
RCIS09TRUARP001C240SA001S	1 C X 240	2.4	31
RCIS09TRUARP002C240SA001S	2 C X 240	2.4	58
RCIS09TRUARP003C240SA001S	3 C X 240	2.4	63
RCIS09TRUARP3.5C240SA001S	3.5 C X 240	2.4	70
RCIS09TRUARP004C240SA001S	4 C X 240	2.4	69
RCIS09TRUARP001C300SA001S	1 C X 300	2.6	33
RCIS09TRUARP002C300SA001S	2 C X 300	2.6	63

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Product Code	Construction	Nominal thickness of insulation	Overall diameter (Approx.)
	n x mm <sup>2</sup>	mm	mm
RCIS09TRUARP003C300SA001S	3 C X 300	2.6	68.5
RCIS09TRUARP3.5C300SA001S	3.5 C X 300	2.6	76.5
RCIS09TRUARP004C300SA001S	4 C X 300	2.6	75.5
RCIS09TRUARP001C400SA001S	1 C X 400	2.8	37.5
RCIS09TRUARP002C400SA001S	2 C X 400	2.8	71
RCIS09TRUARP003C400SA001S	3 C X 400	2.8	77
RCIS09TRUARP3.5C400SA001S	3.5 C X 400	2.8	86
RCIS09TRUARP004C400SA001S	4 C X 400	2.8	85
RCIS09TRUARP001C500SA001S	1 C X 500	3	41
RCIS09TRUARP001C630SA001S	1 C X 630	3	45

**Electrical characteristics**  
Current carrying capacity and maximum DC conductor resistance.

Multi-core cables		Single-core cables		
2 Core Cable		3 Core Cable	Two loaded conductors touching	
mm <sup>2</sup>	Amp.	Amp.	Amp.	Ω/km
4	49	42	—	5.09
6	63	54	—	3.39
10	86	75	—	1.95
16	115	100	—	1.24
25	149	127	161	0.795
35	185	158	200	0.565
50	225	192	242	0.393
70	289	246	310	0.277
95	352	298	377	0.210
120	410	346	437	0.164
150	473	399	504	0.132
185	542	456	575	0.108
240	641	538	679	0.0817

POLYCAB RR-P, IS 9968-1  
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	Multi-core cables		Single-core cables	
	2 Core Cable	3 Core Cable	Two loaded conductors touching	
300	741	621	783	0.0654
400	–	–	940	0.0495
500	–	–	1083	0.0391
630	–	–	1254	0.0292

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