



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB H05RN-F heavy-duty cable insulated and sheathed with cross-linked elastomeric compound. This cable fulfills the requirement as per EN 50525-2-21, cables are intended to use for a variety of applications where appliances or equipment, including heavy industrial equipment, require a flexible connection to the power supply.

## CHARACTERISTICS

### Voltage Rating

300/500 V

### Operation Temperature

Fixed: -15°C to + 60°C

## CONSTRUCTION

- Annealed tinned bunched copper conductor as per IEC 60228, class 5
- Insulated with cross-linked elastomeric compound Type EI 4 (EPR) to EN 50363-1.
- Sheathed with cross-linked elastomeric compound Type EM 2 (PCP) to EN 50363-2-1

### Core Identification

2 core Blue, Brown

3 core Green/Yellow, Brown, Black

4 core Green/Yellow, Brown, Black, Grey

### Bending Radius

Fixed installation – 8 x Overall diameter

### Test Voltage

2000V AC at (20±5) °C

## OUTSTANDING FEATURES

- Highly Flexible
- Oil Resistant
- Heat Resistant
- Long Life

## STANDARD FOLLOWS

IEC 60228  
BS EN 50363-1  
BS EN 50363-2-1  
BS EN 50525-2-21  
IEC 60332-1-2

## COMPLIANCE

Conductor Resistance test - IEC 60228  
Insulation Resistance test - EN 50525-2-21  
Test under fire condition - EN 60332-1-2  
Flame retardant properties as per IEC 60332-1-2

## OUR ACCREDITATIONS



## APPROVAL



# POLY CAB H05RN-F BS EN 50525-2-21 MC Rubber Cable, 300/500 V AC

**POLY CAB**  
IDEAS. CONNECTED.

## Weight & Dimension Data

Product Code	Construction n x mm <sup>2</sup>	Stranding No. of strand/strand dia.	Overall Diameter mm	Weight (Approx.) kg/km	POLY CAB/DOWEL Gland Size
RCBS04TRUARP002C.75S	2 x 0.75	24/0.2	6.23	53	DBW - 01SS (UN)
RCBS04TRUARP002C001S	2 x 1	32/0.2	6.78	65	DBW - 01SS (UN)
RCBS04TRUARP003C.75S	3 x 0.75	24/0.2	6.80	67	DBW - 01SS (UN)
RCBS04TRUARP003C001S	3 x 1	32/0.2	7.18	78	DBW - 01SS (UN)
RCBS04TRUARP004C.75S	4 x 0.75	24/0.2	7.41	81	DBW - 01SS (UN)
RCBS04TRUARP004C001S	4 x 1	32/0.2	7.83	95	DBW - 01SS (UN)

• DBW – Weather proof series

## Electrical Characteristics

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

Nominal cross sectional area mm <sup>2</sup>	Current-carrying capacity		Max. DC conductor resistance at 20°C Ω/km
	Single-phase a.c. Amp.	Three-phase a.c. Amp.	
0.75	6	6	26.7
1	10	10	20

The ambient temperature is 30°C.

Conductor operating temperature 60°C.

The above table is in accordance with Table 4F3A of BS 7671:2018

## De-Rating Factor

### De-rating factor for 60°C thermosetting or thermoplastic insulated cable

Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41