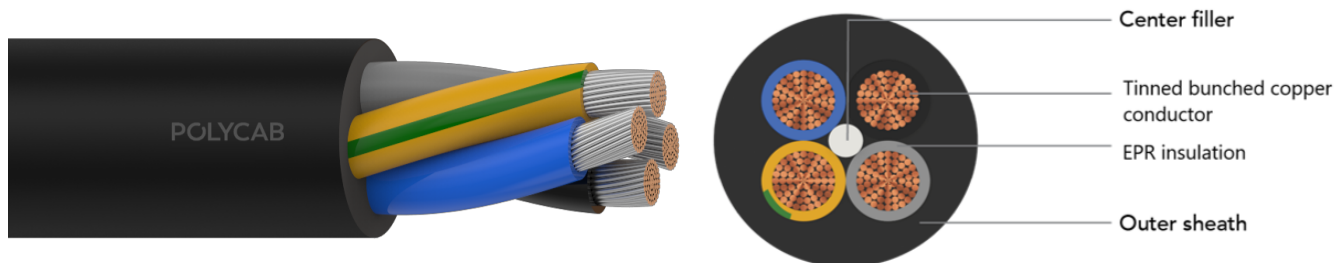


# POLYCAB H05BN4-F BS EN 50525-2-21 MC

## Rubber Cable, 300/500 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB H05BN4-F multicore Flexible cable insulated and sheathed with cross-linked elastomeric compound. This cable fulfils the requirement as per EN 50525-2-21, cables are intended 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 90° C

### CONSTRUCTION

- Annealed bunched tinned copper conductor as per IEC 60228, class 5
- Insulated with cross-linked elastomeric compound Type EI 7 (EPR) to EN 50363-1.
- Sheathed with cross linked elastomeric compound Type EM 7 (CSP) to EN 50363-2-1

#### Core Identification

3 core Green/Yellow, Blue, Brown  
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



# POLYCAB H05BN4-F BS EN 50525-2-21 MC

## Rubber Cable, 300/500 V AC

### Weight & Dimension Data

Product Code	Construction n x mm <sup>2</sup>	No. of strands/strand dia.	Overall Diameter mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
RCBS04TRUARC003C.75S	3 x 0.75	24/0.2	6.80	72	DBW-01SS(UN)
RCBS04TRUARC003C001S	3 x 1	32/0.2	7.18	84	DBW-01SS(UN)
RCBS04TRUARC003C1.5S	3 x 1.5	30/0.25	8.83	125	DBW-01SS(UN)
RCBS04TRUARC003C2.5S	3 x 2.5	50/0.25	10.44	184	DBW-01SS(UN)
RCBS04TRUARC004C.75S	4 x 0.75	24/0.2	6.91	72	DBW-01SS(UN)
RCBS04TRUARC004C001S	4 x 1	32/0.2	7.83	102	DBW-01SS(UN)
RCBS04TRUARC004C1.5S	4 x 1.5	30/0.25	9.85	158	DBW-01SS(UN)
RCBS04TRUARC004C2.5S	4 x 2.5	50/0.25	11.63	232	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.	Three-phase a.c.	
	Amp	Amp	
0.75	6	6	26.7
1	10	10	20
1.5	16	16	13.7
2.5	25	20	8.21

The ambient temperature is 30°C.

Conductor operating temperature 90°C.

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

### De-Rating Factor

De-rating factor for 90°C thermosetting insulated cable.

Air Temperature	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C	85°C
De-Rating Factor	0.95	0.91	0.86	0.82	0.76	0.7	0.64	0.57	0.5	0.4	0.28