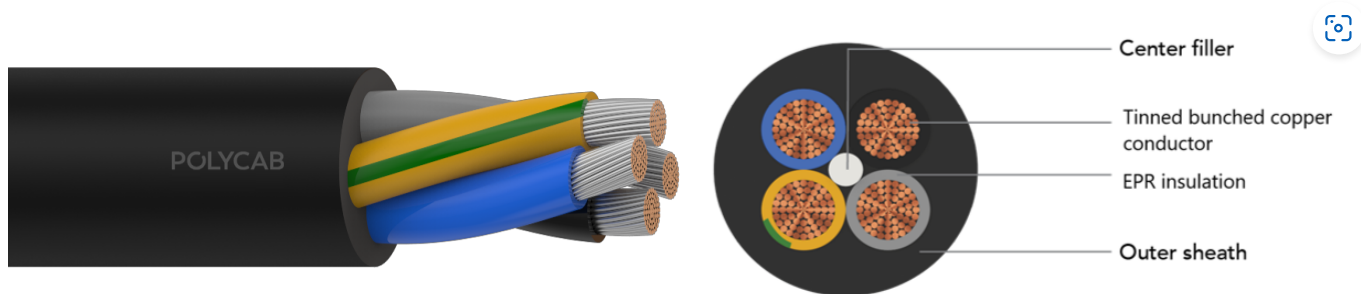


# POLYCAB H05BB-F BS EN 50525-2-21 MC

## Rubber Cable, 300/500 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB H05BB-F EPR insulated and cross linked elastomeric sheathed heavy-duty cable are intended to use in appliances or equipment, heavy industrial equipment, where a flexible connection is required for power supply.

### CHARACTERISTICS

**Voltage Rating**  
300/500 V

**Operation Temperature**  
Fixed: -40°C to 90°C

### CONSTRUCTION

- Annealed bunched tinned copper conductor as per IEC 60228, class 5
- Insulated with cross-linked elastomeric compound Type EI 6 (EPR) to EN 50363-1
- Sheathed with cross linked elastomeric compound Type EM 6 (EPR) to EN 50363-2-1

#### Core Identification

2 core Blue and Brown  
3 core Green/Yellow, Blue, Brown  
4 core Green/Yellow, Blue, Black, Grey  
5 core Green/Yellow, Blue, 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



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### Weight & Dimension Data

Product Code	Construction mm <sup>2</sup>	Overall Diameter mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
RCBS04TRUEARE002C.75S	2 x 0.75	6.23	53	DBW - 01SS (UN)
RCBS04TRUEARE002C001S	2 x 1	6.78	65	DBW - 01SS (UN)
RCBS04TRUEARE002C1.5S	2 x 1.5	8.32	97	DBW - 01SS (UN)
RCBS04TRUEARE002C2.5S	2 x 2.5	9.83	141	DBW - 01SS (UN)
RCBS04TRUEARE003C.75S	3 x 0.75	6.80	67	DBW - 01SS (UN)
RCBS04TRUEARE003C001S	3 x 1	7.18	78	DBW - 01SS (UN)
RCBS04TRUEARE003C1.5S	3 x 1.5	8.83	116	DBW - 01SS (UN)
RCBS04TRUEARE003C2.5S	3 x 2.5	10.44	171	DBW - 01SS (UN)
RCBS04TRUEARE003C004S	3 x 4	12.25	248	DBW - 01SS (UN)
RCBS04TRUEARE003C006S	3 x 6	13.89	338	DBW - 01S (UN)
RCBS04TRUEARE004C.75S	4 x 0.75	7.41	81	DBW - 01SS (UN)
RCBS04TRUEARE004C001S	4 x 1	7.83	95	DBW - 01SS (UN)
RCBS04TRUEARE004C1.5S	4 x 1.5	9.85	147	DBW - 01SS (UN)
RCBS04TRUEARE004C2.5S	4 x 2.5	11.63	217	DBW - 01SS (UN)
RCBS04TRUEARE004C004S	4 x 4	13.63	315	DBW - 01S (UN)
RCBS04TRUEARE004C006S	4 x 6	15.43	430	DBW - 01A (UN)
RCBS04TRUEARE005C.75S	5 x 0.75	8.26	87	DBW - 01SS (UN)
RCBS04TRUEARE005C001S	5 x 1	8.72	103	DBW - 01SS (UN)
RCBS04TRUEARE005C1.5S	5 x 1.5	10.73	152	DBW - 01SS (UN)
RCBS04TRUEARE005C2.5S	5 x 2.5	12.90	232	DBW - 01S (UN)

• DBW – Weatherproof series

### Electrical characteristics

#### Current carrying capacity.

Nominal cross sectional area	Current-carrying capacity		Max. DC conductor resistance at 20°C
	Single-phase a.c.	Three-phase a.c.	
mm <sup>2</sup>	Amp.	Amp.	Ω/km
0.75	6	6	26.7
1	10	10	20
1.5	16	16	13.7

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## Rubber Cable, 300/500 V AC

Nominal cross sectional area	Current-carrying capacity		Max. DC conductor resistance at 20°C
	Single-phase a.c.	Three-phase a.c.	
mm <sup>2</sup>	Amp.	Amp.	Ω/km
2.5	25	20	8.21
4	32	25	5.09
6	-	-	3.39

Ambient temperature: 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

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