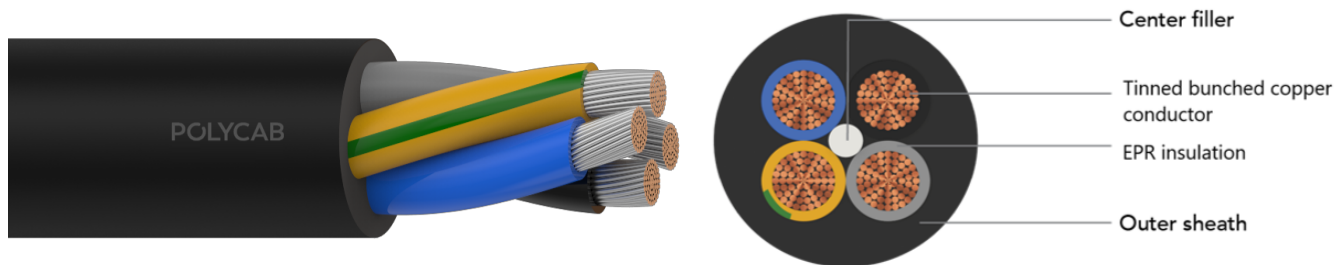


# POLYCAB H07BQ-F BS EN 50525-2-21 MC

## Rubber Cable, 450/750 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB H07BQ-F heavy-duty cable insulated with cross-linked elastomeric compound and sheathed with TPU. This cable fulfils 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**  
450/750 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 thermoplastic polyurethane (TPPU) to EN 50363-10-2

#### Core Identification

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

#### Bending Radius

Fixed installation – 8 x Overall diameter

#### Test Voltage

2500V 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 50363-10-2  
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 H07BQ-F BS EN 50525-2-21 MC

## Rubber Cable, 450/750 V AC

### Weight & Dimension Data

Product Code	Construction n x mm <sup>2</sup>	Overall Diameter mm	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
RCBS06TRUAM1002C001S	2 x 1	7.58	74	DBW - 01SS (UN)
RCBS06TRUAM1002C1.5S	2 x 1.5	8.32	93	DBW - 01SS (UN)
RCBS06TRUAM1002C2.5S	2 x 2.5	9.83	136	DBW - 01SS (UN)
RCBS06TRUAM1002C001S	2 x 4	11.52	195	DBW - 01SS (UN)
RCBS06TRUAM1002C006S	2 x 6	12.87	259	DBW - 01S (UN)
RCBS06TRUAM1002C010S	2 x 10	16.96	445	DBW - 01A (UN)
RCBS06TRUAM1002C016S	2 x 16	19.24	616	DBW - 02 (UN)
RCBS06TRUAM1003C001S	3 x 1	8.04	89	DBW - 01SS (UN)
RCBS06TRUAM1003C1.5S	3 x 1.5	8.83	113	DBW - 01SS (UN)
RCBS06TRUAM1003C2.5S	3 x 2.5	10.44	167	DBW - 01SS (UN)
RCBS06TRUAM1003C004S	3 x 4	12.25	242	DBW - 01SS (UN)
RCBS06TRUAM1003C006S	3 x 6	13.89	330	DBW - 01S (UN)
RCBS06TRUAM1003C010S	3 x 10	18.19	564	DBW - 02 (UN)
RCBS06TRUAM1003C016S	3 x 16	20.84	798	DBW - 02 (UN)
RCBS06TRUAM1004C001S	4 x 1	8.99	113	DBW - 01SS (UN)
RCBS06TRUAM1004C1.5S	4 x 1.5	9.85	143	DBW - 01SS (UN)
RCBS06TRUAM1004C2.5S	4 x 2.5	11.63	212	DBW - 01SS (UN)
RCBS06TRUAM1004C004S	4 x 4	13.63	308	DBW - 01S (UN)
RCBS06TRUAM1004C006S	4 x 6	15.43	420	DBW - 01A (UN)
RCBS06TRUAM1004C010S	4 x 10	20.08	712	DBW - 02 (UN)
RCBS06TRUAM1004C016S	4 x 16	22.79	1003	DBW - 04A (UN)
RCBS06TRUAM1005C001S	5 x 1	10.00	120	DBW - 01SS (UN)
RCBS06TRUAM1005C1.5S	5 x 1.5	10.73	149	DBW - 01SS (UN)
RCBS06TRUAM1005C2.5S	5 x 2.5	12.90	227	DBW - 01S (UN)
RCBS06TRUAM1005C004S	5 x 4	15.11	332	DBW - 01A (UN)
RCBS06TRUAM1005C006S	5 x 6	17.06	456	DBW - 01A (UN)
RCBS06TRUAM1005C010S	5 x 10	22.09	774	DBW - 02 (UN)
RCBS06TRUAM1005C016S	5 x 16	25.30	1109	DBW - 05A (UN)

• DBW – Weatherproof series

### Electrical characteristics

**Current carrying capacity (1 mm<sup>2</sup> to 2.5 mm<sup>2</sup>) and maximum DC conductor resistance.**

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
1	10	10	20
1.5	16	16	13.7
2.5	25	20	8.21

**Current carrying capacity (4 mm<sup>2</sup> to 16 mm<sup>2</sup>) and maximum DC conductor resistance.**

Nominal cross sectional area	Single-phase a.c. or d.c.	Three-phase a.c.	Single-phase a.c. or d.c.	Max. DC conductor resistance at 20°C
	1 two-core cable, with or without protective conductor	1 three-core, four-core or five-core	2 single-core cables, touching	
mm <sup>2</sup>	Amp.	Amp.	Amp.	Ω/km
4	42	37	–	5.09
6	55	49	–	3.39
10	76	66	–	1.95
16	103	89	–	1.24

Ambient temperature: 30°C

Maximum conductor operating temperature: 90°C

The above table in accordance with the 4F3A & 4F2A of BS 7671

### 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