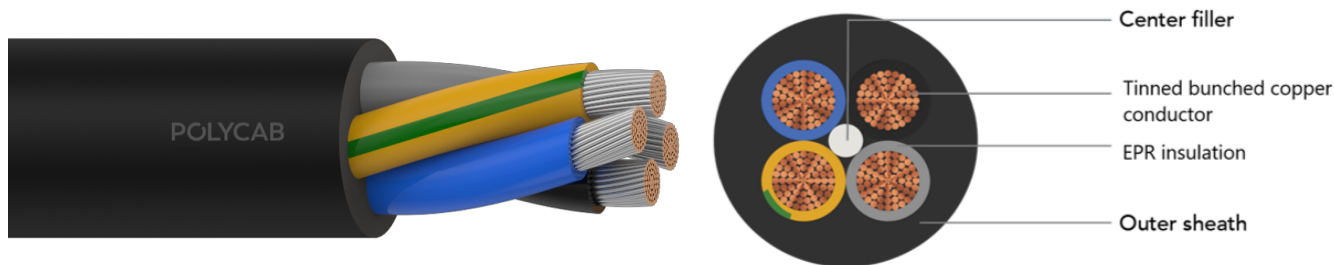


# POLYCAB H07RN-F BS EN 50525-2-21 MC

## Rubber Cable, 450/750 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB H07RN-F heavy-duty cable insulated and sheathed with cross-linked elastomeric compound. 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: -15°C to 60°C

### CONSTRUCTION

- Annealed bunched tinned copper conductor as per IEC 60228, class 5
- Insulated with cross-linked elastomeric compound Type EI 4 (EPR) to EN 50363-1.
- Sheathing either in a single layer, cross-linked elastomeric compound Type EM 2 to EN 50363-2-1 or in two layers, with the inner layer made of one of the cross-linked elastomeric compounds type EM 2 or EM 3 to EN 50363-2-1 and the outer layer of cross linked elastomeric compound type EM 2 to EN 50363-2-1

#### 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 50363-2-1  
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 H07RN-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
RCBS06TRUARC001C1.5S	1 x 1.5	5.85	44	-
RCBS06TRUARC001C2.5S	1 x 2.5	6.41	72	DBW-01SS(UN)
RCBS06TRUARC001C004S	1 x 4	7.56	99	DBW-01SS(UN)
RCBS06TRUARC001C006S	1 x 6	8.33	128	DBW-01SS(UN)
RCBS06TRUARC001C010S	1 x 10	10.08	197	DBW-01SS(UN)
RCBS06TRUARC001C016S	1 x 16	11.32	270	DBW-01SS(UN)
RCBS06TRUARC001C025S	1 x 25	13.18	388	DBW-01S(UN)
RCBS06TRUARC001C035S	1 x 35	14.78	514	DBW-01A(UN)
RCBS06TRUARC001C050S	1 x 50	17.07	710	DBW-02(UN)
RCBS06TRUARC001C070S	1 x 70	19.21	953	DBW-03 SP(UN)
RCBS06TRUARC001C095S	1 x 95	21.74	1252	DBW-03 SP(UN)
RCBS06TRUARC001C120S	1 x 120	23.65	1531	DBW-04 A(UN)
RCBS06TRUARC001C150S	1 x 150	26.01	1871	DBW-05A(UN)
RCBS06TRUARC001C185S	1 x 185	28.54	2281	DBW-05A(UN)
RCBS06TRUARC001C240S	1 x 240	31.63	2902	DBW-06SP(UN)
RCBS06TRUARC001C300S	1 x 300	34.67	3587	DBW-07SP(UN)
RCBS06TRUARC001C400S	1 x 400	38.92	4672	DBW-08(UN)
RCBS06TRUARC001C500S	1 x 500	42.67	6559	DBW-010A(UN)
RCBS06TRUARC001C630S	1 x 630	46.34	7988	DBW-010A(UN)
RCBS06TRUARC002C001S	2 x 1	8.38	101	DBW-01SS(UN)
RCBS06TRUARC002C1.5S	2 x 1.5	8.7	108	DBW-01SS(UN)
RCBS06TRUARC002C2.5S	2 x 2.5	10.22	152	DBW-01SS(UN)
RCBS06TRUARC002C004S	2 x 4	12.72	257	DBW-01S(UN)
RCBS06TRUARC002C006S	2 x 6	14.27	337	DBW-01A(UN)
RCBS06TRUARC002C010S	2 x 10	19.16	601	DBW-03SP(UN)
RCBS06TRUARC002C016S	2 x 16	21.64	809	DBW-03SP(UN)
RCBS06TRUARC002C025S	2 x 25	25.57	1164	DBW-05A(UN)
RCBS06TRUARC003C001S	3 x 1	9.04	121	DBW-01SS(UN)
RCBS06TRUARC003C1.5S	3 x 1.5	9.35	128	DBW-01SS(UN)
RCBS06TRUARC003C2.5S	3 x 2.5	10.97	181	DBW-01SS(UN)
RCBS06TRUARC003C004S	3 x 4	13.65	312	DBW-01S(UN)
RCBS06TRUARC003C006S	3 x 6	15.29	413	DBW-01A(UN)

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Product Code	Construction (nxmm <sup>2</sup> )	Overall Diameter (mm)	Weight (Approx.) (kg/km)	POLYCAB/DOWEL Gland Size
RCBS06TRUARC003C010S	3 x 10	20.59	738	DBW-03SP(UN)
RCBS06TRUARC003C016S	3 x 16	23.24	1004	DBW-04A(UN)
RCBS06TRUARC003C025S	3 x 25	27.44	1451	DBW-05A(UN)
RCBS06TRUARC003C035S	3 x 35	30.61	1894	DBW-06SP(UN)
RCBS06TRUARC003C050S	3 x 50	35.51	2612	DBW-08(UN)
RCBS06TRUARC003C070S	3 x 70	39.87	3463	DBW-08(UN)
RCBS06TRUARC003C095S	3 x 95	45.46	4568	DBW-010A(UN)
RCBS06TRUARC003C120S	3 x 120	49.33	5540	DBW-010A(UN)
RCBS06TRUARC003C150S	3 x 150	54.36	6772	DBW-011SP(UN)
RCBS06TRUARC003C185S	3 x 185	59.75	8258	DBW-012(UN)
RCBS06TRUARC003C240S	3 x 240	67.4	10646	DBW-013(UN)
RCBS06TRUARC003C300S	3 x 300	74.74	13255	DBW-014(UN)
RCBS06TRUARC004C001S	4 x 1	9.99	150	DBW-01SS(UN)
RCBS06TRUARC004C1.5S	4 x 1.5	10.29	156	DBW-01SS(UN)
RCBS06TRUARC004C2.5S	4 x 2.5	12.06	222	DBW-01SS(UN)
RCBS06TRUARC004C004S	4 x 4	15.03	387	DBW-01A(UN)
RCBS06TRUARC004C006S	4 x 6	17.03	522	DBW-01A(UN)
RCBS06TRUARC004C010S	4 x 10	22.48	905	DBW-04A(UN)
RCBS06TRUARC004C016S	4 x 16	25.39	1241	DBW-05A(UN)
RCBS06TRUARC004C025S	4 x 25	30.43	1834	DBW-06SP(UN)
RCBS06TRUARC004C035S	4 x 35	33.91	2396	DBW-07SP(UN)
RCBS06TRUARC004C050S	4 x 50	39.3	3305	DBW-08(UN)
RCBS06TRUARC004C070S	4 x 70	44.32	4416	DBW-010A(UN)
RCBS06TRUARC004C095S	4 x 95	50.86	5871	DBW-010A(UN)
RCBS06TRUARC004C120S	4 x 120	54.72	7062	DBW-011SP(UN)
RCBS06TRUARC004C150S	4 x 150	60.46	8661	DBW-012(UN)
RCBS06TRUARC004C185S	4 x 185	66.6	10590	DBW-013(UN)
RCBS06TRUARC004C240S	4 x 240	75	13636	DBW-014(UN)
RCBS06TRUARC004C300S	4 x 300	83.29	17010	DBW-015(UN)
RCBS06TRUARC005C1.5S	5 x 1.5	11.29	165	DBW-01SS(UN)
RCBS06TRUARC005C2.5S	5 x 2.5	13.41	241	DBW-01S(UN)
RCBS06TRUARC005C004S	5 x 4	16.71	418	DBW-01A(UN)

# POLYCAB H07RN-F BS EN 50525-2-21 MC

## Rubber Cable, 450/750 V AC

Product Code	Construction (n x mm <sup>2</sup> )	Overall Diameter (mm)	Weight (Approx.) (kg/km)	POLYCAB/DOWEL Gland Size
RCBS06TRUARC005C006S	5 x 6	18.86	566	DBW-02(UN)
RCBS06TRUARC005C010S	5 x 10	24.69	979	DBW-04A(UN)
RCBS06TRUARC005C016S	5 x 16	28.1	1362	DBW-05A(UN)
RCBS06TRUARC005C025S	5 x 25	33.6	2006	DBW-07SP(UN)
RCBS06TRUARC007C1.5S	7 x 1.5	14.75	294	DBW-01A(UN)
RCBS06TRUARC007C2.5S	7 x 2.5	17.24	407	DBW-02(UN)
RCBS06TRUARC012C1.5S	12 x 1.5	17.65	405	DBW-02(UN)
RCBS06TRUARC012C2.5S	12 x 2.5	21.43	601	DBW-03SP(UN)
RCBS06TRUARC019C1.5S	19 x 1.5	22.44	664	DBW-04A(UN)

• DBW – Weather proof Series

### Electrical Characteristics

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

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

**Current carrying capacity and max. DC conductor resistance. (4 mm<sup>2</sup> and above)**

Nominal cross sectional area mm <sup>2</sup>	Single-phase a.c. or d.c.		Three-phase a.c.	Max. DC conductor resistance at 20°C Ω/km
	1 two-core cable, with or without protective conductor	2 single-core cable	1 three-core, four-core or five-core	
	Amp	Amp	Amp	
4	30	–	26	5.09
6	39	–	34	3.39
10	51	–	47	1.95
16	73	–	63	1.24
25	97	–	83	0.795
35	–	140	102	0.565
50	–	175	124	0.393
70	–	216	158	0.277

# POLYCAB H07RN-F BS EN 50525-2-21 MC

## Rubber Cable, 450/750 V AC

Nominal cross sectional area  mm <sup>2</sup>	Single-phase a.c. or d.c.		Three-phase a.c.	Max. DC conductor resistance at 20°C  Ω/km
	1 two-core cable, with or without protective conductor  Amp	2 single-core cable  Amp	1 three-core, four-core or five-core  Amp	
95	–	258	192	0.21
120	–	302	222	0.164
150	–	347	255	0.132
185	–	394	291	0.108
240	–	471	343	0.0817
300	–	541	394	0.0654
400	–	644	–	0.0495
500	–	738	–	0.0391
630	–	861	–	0.0292

The ambient temperature is 30°C.

Conductor operating temperature 60°C.

The above table is in accordance with Table 4F3 A & 4F1A 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