



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB H07RN8-F heavy-duty water-resistant cable insulated and sheathed with cross-linked elastomeric compound. This cable fulfils the requirement as per EN 50525-2-21, for installation in dry, damp or wet environments, in workshops with explosive atmospheres, it can be immersed in fresh water up to 10m depth and it could be used as energy supply cable for submersed pumps. Not advisable for under waterpower transmission or installation in a water way or where mechanical damage may occur a cause hazard

## 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.
- Sheath either in a single layer, cross-linked elastomeric compound Type EM 2 (PCP) 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

6 core & above Green/Yellow, Black with white numbering

### 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



# POLY CAB H07RN8-F BS EN 50525-2-21 MC Rubber Cable, 450/750 V AC

**POLY CAB**  
IDEAS. CONNECTED.

## Weight & Dimension Data

Product Code	Construction n x mm <sup>2</sup>	Overall Diameter mm	Weight (Approx.) kg/km	POLY CAB/DOWEL Gland Size
RCBS06TRUARP001C1.5S	1 x 1.5	5.96	49	-
RCBS06TRUARP001C2.5S	1 x 2.5	6.62	65	DBW - 01SS (UN)
RCBS06TRUARP001C004S	1 x 4	7.56	91	DBW - 01SS (UN)
RCBS06TRUARP001C006S	1 x 6	8.33	118	DBW - 01SS (UN)
RCBS06TRUARP001C010S	1 x 10	10.08	183	DBW - 01SS (UN)
RCBS06TRUARP001C016S	1 x 16	11.32	254	DBW - 01SS (UN)
RCBS06TRUARP001C025S	1 x 25	13.18	367	DBW - 01S (UN)
RCBS06TRUARP001C035S	1 x 35	14.78	488	DBW - 01A (UN)
RCBS06TRUARP001C050S	1 x 50	17.07	677	DBW - 01A (UN)
RCBS06TRUARP001C070S	1 x 70	19.15	905	DBW - 02 (UN)
RCBS06TRUARP001C095S	1 x 95	21.74	1202	DBW - 02 (UN)
RCBS06TRUARP001C120S	1 x 120	23.68	1477	DBW - 04A (UN)
RCBS06TRUARP001C150S	1 x 150	26.01	1802	DBW - 05A (UN)
RCBS06TRUARP001C185S	1 x 185	28.69	2235	DBW - 05A (UN)
RCBS06TRUARP001C240S	1 x 240	31.63	2808	DBW - 06 SP (UN)
RCBS06TRUARP001C300S	1 x 300	34.67	3478	DBW - 07 SP (UN)
RCBS06TRUARP001C400S	1 x 400	38.92	4542	DBW - 08 (UN)
RCBS06TRUARP001C500S	1 x 500	42.74	5600	DBW - 09 (UN)
RCBS06TRUARP001C630S	1 x 630	46.46	6906	DBW - 010A (UN)
RCBS06TRUARP002C001S	2 x 1	8.38	91	DBW - 01SS (UN)
RCBS06TRUARP002C1.5S	2 x 1.5	9.32	116	DBW - 01SS (UN)
RCBS06TRUARP002C2.5S	2 x 2.5	11.03	168	DBW - 01SS (UN)
RCBS06TRUARP002C004S	2 x 4	12.72	234	DBW - 01S (UN)
RCBS06TRUARP002C006S	2 x 6	14.27	308	DBW - 01A (UN)
RCBS06TRUARP002C010S	2 x 10	19.16	547	DBW - 02 (UN)
RCBS06TRUARP002C016S	2 x 16	21.64	742	DBW - 02 (UN)
RCBS06TRUARP002C025S	2 x 25	25.57	1072	DBW - 05A (UN)
RCBS06TRUARP003C001S	3 x 1	9.04	111	DBW - 01SS (UN)
RCBS06TRUARP003C1.5S	3 x 1.5	10.03	141	DBW - 01SS (UN)

**POLY CAB H07RN8-F BS EN 50525-2-21 MC  
Rubber Cable, 450/750 V AC**

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Product Code	Construction n x mm <sup>2</sup>	Overall Diameter mm	Weight (Approx.) kg/km	POLY CAB/DOWEL Gland Size
RCBS06TRUARP003C2.5S	3 x 2.5	11.84	206	DBW - 01SS (UN)
RCBS06TRUARP003C004S	3 x 4	13.65	288	DBW - 01S (UN)
RCBS06TRUARP003C006S	3 x 6	15.29	383	DBW - 01A (UN)
RCBS06TRUARP003C010S	3 x 10	20.59	681	DBW - 02 (UN)
RCBS06TRUARP003C016S	3 x 16	23.24	934	DBW - 04A (UN)
RCBS06TRUARP003C025S	3 x 25	27.44	1356	DBW - 05A (UN)
RCBS06TRUARP003C035S	3 x 35	30.61	1777	DBW - 06 SP (UN)
RCBS06TRUARP003C050S	3 x 50	35.51	2458	DBW - 08 (UN)
RCBS06TRUARP003C070S	3 x 70	39.74	3245	DBW - 08 (UN)
RCBS06TRUARP003C095S	3 x 95	45.46	4323	DBW - 010A (UN)
RCBS06TRUARP003C120S	3 x 120	49.38	5269	DBW - 010A (UN)
RCBS06TRUARP003C150S	3 x 150	54.36	6430	DBW - 011 SP (UN)
RCBS06TRUARP003C185S	3 x 185	60.09	7966	DBW - 012 (UN)
RCBS06TRUARP003C240S	3 x 240	67.4	10128	DBW - 013 (UN)
RCBS06TRUARP003C300S		74.74	12624	DBW - 014 (UN)
RCBS06TRUARP004C001S	4 x 1	9.99	137	DBW - 01SS (UN)
RCBS06TRUARP004C1.5S	4 x 1.5	11.05	175	DBW - 01SS (UN)
RCBS06TRUARP004C2.5S	4 x 2.5	13.03	255	DBW - 01S (UN)
RCBS06TRUARP004C004S	4 x 4	15.03	360	DBW - 01A (UN)
RCBS06TRUARP004C006S	4 x 6	17.03	487	DBW - 01A (UN)
RCBS06TRUARP004C010S	4 x 10	22.48	841	DBW - 04A (UN)
RCBS06TRUARP004C016S	4 x 16	25.39	1161	DBW - 05A (UN)
RCBS06TRUARP004C025S	4 x 25	30.43	1722	DBW - 06 SP (UN)
RCBS06TRUARP004C035S	4 x 35	33.91	2259	DBW - 07 SP (UN)
RCBS06TRUARP004C050S	4 x 50	39.3	3126	DBW - 08 (UN)
RCBS06TRUARP004C070S	4 x 70	44.17	4155	DBW - 010A (UN)
RCBS06TRUARP004C095S	4 x 95	50.86	5577	DBW - 010A (UN)
RCBS06TRUARP004C120S	4 x 120	54.78	6748	DBW - 011 SP (UN)
RCBS06TRUARP004C150S	4 x 150	60.46	8258	DBW - 012 (UN)

# POLY CAB H07RN8-F BS EN 50525-2-21 MC Rubber Cable, 450/750 V AC

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Product Code	Construction n x mm <sup>2</sup>	Overall Diameter mm	Weight (Approx.) kg/km	POLY CAB/DOWEL Gland Size
RCBS06TRUARP004C185S	4 x 185	66.98	10259	DBW - 013 (UN)
RCBS06TRUARP004C240S	4 x 240	75	13028	DBW - 014 (UN)
RCBS06TRUARP004C300S	4 x 300	83.29	16265	DBW - 015 (UN)
RCBS06TRUARP005C001S	5 x 1	11	146	DBW - 01SS (UN)
RCBS06TRUARP005C1.5S	5 x 1.5	12.13	188	DBW - 01SS (UN)
RCBS06TRUARP005C2.5S	5 x 2.5	14.3	274	DBW - 01A (UN)
RCBS06TRUARP005C004S	5 x 4	16.71	393	DBW - 01A (UN)
RCBS06TRUARP005C006S	5 x 6	18.86	535	DBW - 02 (UN)
RCBS06TRUARP005C010S	5 x 10	24.69	921	DBW - 04A (UN)
RCBS06TRUARP005C016S	5 x 16	28.1	1290	DBW - 05A (UN)
RCBS06TRUARP005C025S	5 x 25	33.6	1908	DBW - 07 SP (UN)
RCBS06TRUARP006C1.5S	6 x 1.5	14.48	259	DBW - 01A (UN)
RCBS06TRUARP006C2.5S	6 x 2.5	16.85	367	DBW - 01A (UN)
RCBS06TRUARP006C004S	6 x 4	19.48	515	DBW - 02 (UN)
RCBS06TRUARP007C1.5S	7 x 1.5	14.68	287	DBW - 01A (UN)
RCBS06TRUARP007C2.5S	7 x 2.5	17.05	407	DBW - 01A (UN)
RCBS06TRUARP007C004S	7 x 4	19.88	583	DBW - 02 (UN)
RCBS06TRUARP012C1.5S	12 x 1.5	18.95	459	DBW - 02 (UN)
RCBS06TRUARP012C2.5S	12 x 2.5	22.07	656	DBW - 02 (UN)
RCBS06TRUARP012C004S	12 x 4	25.97	953	DBW - 05A (UN)
RCBS06TRUARP018C1.5S	18 x 1.5	22.21	648	DBW - 04A (UN)
RCBS06TRUARP018C2.5S	18 x 2.5	26.08	943	DBW - 05A (UN)
RCBS06TRUARP018C004S	18 x 4	30.6	1369	DBW - 06 SP (UN)
RCBS06TRUARP024C1.5S	24 x 1.5	25.97	854	DBW - 05A (UN)
RCBS06TRUARP024C2.5S	24 x 2.5	30.69	1254	DBW - 06 SP (UN)
RCBS06TRUARP036C1.5S	36 x 1.5	29.73	1195	DBW - 06 SP (UN)
RCBS06TRUARP036C2.5S	36 x 2.5	35.31	1777	DBW - 08 (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 Single-phase a.c. Amp	Current-carrying capacity Three-phase a.c. Amp	Max. DC conductor resistance at 20°C Ω/km
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	
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
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