



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB H07BB-F heavy-duty cable insulated and sheathed with cross-linked elastomeric compound. This cable fulfills 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 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.
- Sheath either in a single layer, cross linked elastomeric compound Type EM 6 (EPR) to EN 50363-2-1 or in two layers, with both layers made of cross linked elastomeric compound of Type EM 6 (EPR) 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



**POLY CAB H07BB-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
RCBS06TRUARE001C1.5S	1 x 1.5	5.96	49	-
RCBS06TRUARE001C2.5S	1 x 2.5	6.62	65	DBW - 01SS (UN)
RCBS06TRUARE001C004S	1 x 4	7.56	91	DBW - 01SS (UN)
RCBS06TRUARE001C006S	1 x 6	8.33	118	DBW - 01SS (UN)
RCBS06TRUARE001C010S	1 x 10	10.08	183	DBW - 01SS (UN)
RCBS06TRUARE001C016S	1 x 16	11.32	254	DBW - 01SS (UN)
RCBS06TRUARE001C025S	1 x 25	13.18	367	DBW - 01S (UN)
RCBS06TRUARE001C035S	1 x 35	14.78	488	DBW - 01A (UN)
RCBS06TRUARE001C050S	1 x 50	17.07	677	DBW - 01A (UN)
RCBS06TRUARE001C070S	1 x 70	19.15	905	DBW - 02 (UN)
RCBS06TRUARE001C095S	1 x 95	21.74	1202	DBW - 02 (UN)
RCBS06TRUARE001C120S	1 x 120	23.68	1477	DBW - 04A (UN)
RCBS06TRUARE001C150S	1 x 150	26.01	1802	DBW - 05A (UN)
RCBS06TRUARE001C185S	1 x 185	28.69	2235	DBW - 05A (UN)
RCBS06TRUARE001C240S	1 x 240	31.63	2808	DBW - 06 SP (UN)
RCBS06TRUARE001C300S	1 x 300	34.67	3478	DBW - 07 SP (UN)
RCBS06TRUARE001C400S	1 x 400	38.92	4542	DBW - 08 (UN)
RCBS06TRUARE001C500S	1 x 500	42.74	5600	DBW - 09 (UN)
RCBS06TRUARE001C630S	1 x 630	46.46	6906	DBW - 010A (UN)
RCBS06TRUARE002C001S	2 x 1	8.38	91	DBW - 01SS (UN)
RCBS06TRUARE002C1.5S	2 x 1.5	9.32	116	DBW - 01SS (UN)
RCBS06TRUARE002C2.5S	2 x 2.5	11.03	168	DBW - 01SS (UN)
RCBS06TRUARE002C004S	2 x 4	12.72	234	DBW - 01S (UN)
RCBS06TRUARE002C006S	2 x 6	14.27	308	DBW - 01A (UN)
RCBS06TRUARE002C010S	2 x 10	19.16	547	DBW - 02 (UN)
RCBS06TRUARE002C016S	2 x 16	21.64	742	DBW - 02 (UN)
RCBS06TRUARE002C025S	2 x 25	25.57	1072	DBW - 05A (UN)

**POLY CAB H07BB-F BS EN 50525-2-21 MC  
Rubber Cable, 450/750 V AC**

**POLY CAB**  
IDEAS. CONNECTED.

Product Code	Construction (n x mm <sup>2</sup> )	Overall Diameter (mm)	Weight (Approx.) (kg/km)	POLY CAB/DOWEL Gland Size
RCBS06TRUARE003C001S	3 x 1	9.04	111	DBW - 01SS (UN)
RCBS06TRUARE003C1.5S	3 x 1.5	10.03	141	DBW - 01SS (UN)
RCBS06TRUARE003C2.5S	3 x 2.5	11.84	206	DBW - 01SS (UN)
RCBS06TRUARE003C004S	3 x 4	13.65	288	DBW - 01S (UN)
RCBS06TRUARE003C006S	3 x 6	15.29	383	DBW - 01A (UN)
RCBS06TRUARE003C010S	3 x 10	20.59	681	DBW - 02 (UN)
RCBS06TRUARE003C016S	3 x 16	23.24	934	DBW - 04A (UN)
RCBS06TRUARE003C025S	3 x 25	27.44	1356	DBW - 05A (UN)
RCBS06TRUARE003C035S	3 x 35	30.61	1777	DBW - 06 SP (UN)
RCBS06TRUARE003C050S	3 x 50	35.51	2458	DBW - 08 (UN)
RCBS06TRUARE003C070S	3 x 70	39.74	3245	DBW - 08 (UN)
RCBS06TRUARE003C095S	3 x 95	45.46	4323	DBW - 010A (UN)
RCBS06TRUARE003C120S	3 x 120	49.38	5269	DBW - 010A (UN)
RCBS06TRUARE003C150S	3 x 150	54.36	6430	DBW - 011 SP (UN)
RCBS06TRUARE003C185S	3 x 185	60.09	7966	DBW - 012 (UN)
RCBS06TRUARE003C240S	3 x 240	67.4	10128	DBW - 013 (UN)
RCBS06TRUARE003C300S	3 x 300	74.74	12624	DBW - 014 (UN)
RCBS06TRUARE004C001S	4 x 1	9.99	137	DBW - 01SS (UN)
RCBS06TRUARE004C1.5S	4 x 1.5	11.05	175	DBW - 01SS (UN)
RCBS06TRUARE004C2.5S	4 x 2.5	13.03	255	DBW - 01S (UN)
RCBS06TRUARE004C004S	4 x 4	15.03	360	DBW - 01A (UN)
RCBS06TRUARE004C006S	4 x 6	17.03	487	DBW - 01A (UN)
RCBS06TRUARE004C010S	4 x 10	22.48	841	DBW - 04A (UN)
RCBS06TRUARE004C016S	4 x 16	25.39	1161	DBW - 05A (UN)
RCBS06TRUARE004C025S	4 x 25	30.43	1722	DBW - 06 SP (UN)
RCBS06TRUARE004C035S	4 x 35	33.91	2259	DBW - 07 SP (UN)
RCBS06TRUARE004C050S	4 x 50	39.3	3126	DBW - 08 (UN)
RCBS06TRUARE004C070S	4 x 70	44.17	4155	DBW - 010A (UN)
RCBS06TRUARE004C095S	4 x 95	50.86	5577	DBW - 010A (UN)

**POLY CAB H07BB-F BS EN 50525-2-21 MC  
Rubber Cable, 450/750 V AC**

**POLY CAB**  
IDEAS. CONNECTED.

Product Code	Construction (n x mm <sup>2</sup> )	Overall Diameter (mm)	Weight (Approx.) (kg/km)	POLY CAB/DOWEL Gland Size
RCBS06TRUARE004C120S	4 x 120	54.78	6748	DBW - 011 SP (UN)
RCBS06TRUARE004C150S	4 x 150	60.46	8258	DBW - 012 (UN)
RCBS06TRUARE004C185S	4 x 185	66.98	10259	DBW - 013 (UN)
RCBS06TRUARE004C240S	4 x 240	75	13028	DBW - 014 (UN)
RCBS06TRUARE004C300S	4 x 300	83.29	16265	DBW - 015 (UN)
RCBS06TRUARE005C001S	5 x 1	11	146	DBW - 01SS (UN)
RCBS06TRUARE005C1.5S	5 x 1.5	12.13	188	DBW - 01SS (UN)
RCBS06TRUARE005C2.5S	5 x 2.5	14.3	274	DBW - 01A (UN)
RCBS06TRUARE005C004S	5 x 4	16.71	393	DBW - 01A (UN)
RCBS06TRUARE005C006S	5 x 6	18.86	535	DBW - 02 (UN)
RCBS06TRUARE005C010S	5 x 10	24.69	921	DBW - 04A (UN)
RCBS06TRUARE005C016S	5 x 16	28.1	1290	DBW - 05A (UN)
RCBS06TRUARE005C025S	5 x 25	33.6	1908	DBW - 07 SP (UN)
RCBS06TRUARE005C035S	5 x 35	37.21	2493	DBW - 08 (UN)
RCBS06TRUARE005C050S	5 x 50	43.54	3487	DBW - 010A (UN)
RCBS06TRUARE005C070S	5 x 70	49.08	4667	DBW - 010A (UN)
RCBS06TRUARE005C095S	5 x 95	56.18	6227	DBW - 011 SP (UN)
RCBS06TRUARE005C120S	5 x 120	60.33	7521	DBW - 012 (UN)
RCBS06TRUARE005C150S	5 x 150	66.55	9194	DBW - 013 (UN)
RCBS06TRUARE005C185S	5 x 185	73.92	11449	DBW - 014 (UN)
RCBS06TRUARE005C240S	5 x 240	82.69	14535	DBW - 015 (UN)
RCBS06TRUARE005C300S	5 x 300	91.78	18147	DBW - 015 (UN)

• DBW – Weatherproof series

# POLYCAT H07BB-F BS EN 50525-2-21 MC

## Rubber Cable, 450/750 V AC

**POLYCAT**  
IDEAS. CONNECTED.

### Electrical characteristics

#### Current carrying capacity H07BB-F (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 H07BB-F (4 mm<sup>2</sup> to 630 mm<sup>2</sup>)

Nominal cross sectional area mm <sup>2</sup>	Single-phase a.c. or d.c. 1 two-core cable, with or without protective conductor	Three-phase a.c. 1 three-core, four-core or five-core	Single-phase a.c. or d.c. 2 single-core cables, touching	Max. DC conductor resistance at 20°C Ω/km
4	42	37	—	5.09
6	55	49	—	3.39
10	76	66	—	1.95
16	103	89	—	1.24
25	136	119	—	0.795
35	—	146	200	0.565
50	—	177	250	0.393
70	—	225	310	0.277
95	—	273	369	0.21
120	—	316	432	0.164
150	—	363	497	0.132
185	—	414	567	0.108
240	—	487	673	0.0817
300	—	560	773	0.0654
400	—	—	924	0.0495
500	—	—	1,062	0.0391
630	—	—	1,242	0.0292

Ambient temperature: 30°C

Maximum conductor operating temperature: 90°C

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

**De-Rating Factor**

**De-Rating factor of 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