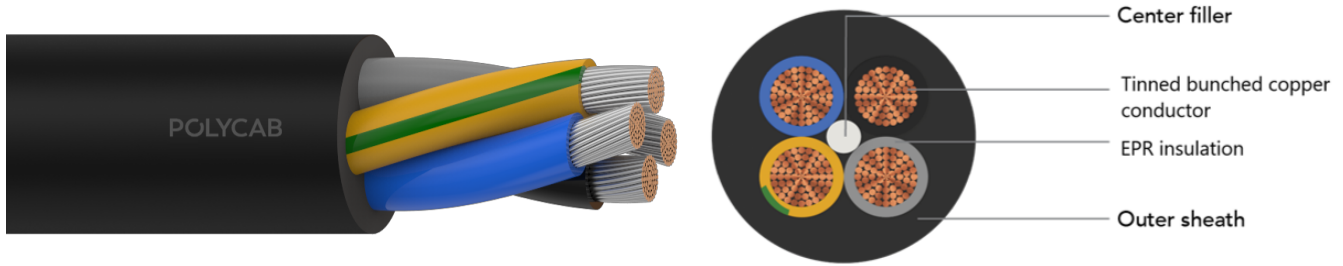


POLYCAB H07BN4-F BS EN 50525-2-21 MC

Rubber Cable, 450/750 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB H07BN4-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 90°C

CONSTRUCTION

- Annealed bunched tinned copper conductor as per IEC 60228, class 5.
- Insulated with cross-linked elastomeric compound Type EI 7 (EPR) to EN 50363-1.
- Sheathing either in a single layer, cross-linked elastomeric compound Type EM 7 (CSP) to EN 50363-2-1 or in two layers, with the inner layer made of one of the cross-linked elastomeric compounds type EM 7 or EM 6 to EN 50363-2-1 and the outer layer of cross-linked elastomeric compound type EM 7 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 H07BN4-F BS EN 50525-2-21 MC

Rubber Cable, 450/750 V AC

Weight & Dimension Data

Product Code	Construction (n x mm ²)	No. of strands/strand dia.	Overall Diameter(mm)	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
RCBS06TRUARC001C004S	1 x 4	56/0.3	7.56	99	DBW-01SS(UN)
RCBS06TRUARC001C006S	1 x 6	84/0.3	8.33	128	DBW-01SS(UN)
RCBS06TRUARC001C010S	1 x 10	80/0.4	10.08	197	DBW-01SS(UN)
RCBS06TRUARC001C016S	1 x 16	126/0.4	11.32	270	DBW-01SS(UN)
RCBS06TRUARC001C025S	1 x 25	196/0.4	13.18	388	DBW-01S(UN)
RCBS06TRUARC001C035S	1 x 35	276/0.4	14.78	514	DBW-01A(UN)
RCBS06TRUARC001C050S	1 x 50	396/0.4	17.07	710	DBW-02(UN)
RCBS06TRUARC001C070S	1 x 70	360/0.5	19.21	953	DBW-03 SP(UN)
RCBS06TRUARC001C095S	1 x 95	484/0.5	21.74	1252	DBW-03 SP(UN)
RCBS06TRUARC001C120S	1 x 120	608/0.5	23.65	1531	DBW-04 A(UN)
RCBS06TRUARC001C150S	1 x 150	750/0.5	26.01	1871	DBW-05A(UN)
RCBS06TRUARC001C185S	1 x 185	925/0.5	28.54	2281	DBW-05A(UN)
RCBS06TRUARC001C240S	1 x 240	1210/0.5	31.63	2902	DBW-06SP(UN)
RCBS06TRUARC001C300S	1 x 300	1527/0.5	34.67	3587	DBW-07SP(UN)
RCBS06TRUARC001C400S	1 x 400	2036/0.5	38.92	4672	DBW-08(UN)
RCBS06TRUARC001C500S	1 x 500	2530/0.5	42.67	6559	DBW-010A(UN)
RCBS06TRUARC001C630S	1 x 630	3180/0.5	46.34	7988	DBW-010A(UN)
RCBS06TRUARC002C004S	2 x 4	56/0.3	12.72	257	DBW-01S(UN)
RCBS06TRUARC002C006S	2 x 6	84/0.3	14.27	337	DBW-01A(UN)
RCBS06TRUARC002C010S	2 x 10	80/0.4	19.16	601	DBW-03SP(UN)
RCBS06TRUARC002C016S	2 x 16	126/0.4	21.64	809	DBW-03SP(UN)
RCBS06TRUARC002C025S	2 x 25	196/0.4	25.57	1164	DBW-05A(UN)
RCBS06TRUARC003C004S	3 x 4	56/0.3	13.65	312	DBW-01S(UN)
RCBS06TRUARC003C006S	3 x 6	84/0.3	15.29	413	DBW-01A(UN)
RCBS06TRUARC003C010S	3 x 10	80/0.4	20.59	738	DBW-03SP(UN)
RCBS06TRUARC003C016S	3 x 16	126/0.4	23.24	1004	DBW-04A(UN)
RCBS06TRUARC003C025S	3 x 25	196/0.4	27.44	1451	DBW-05A(UN)
RCBS06TRUARC003C035S	3 x 35	276/0.4	30.61	1894	DBW-06SP(UN)

POLYCAB H07BN4-F BS EN 50525-2-21 MC

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Product Code	Construction (n x mm ²)	No. of strands/strand dia.	Overall Diameter(mm)	Weight (Approx.) kg/km	POLYCAB/DOWEL Gland Size
RCBS06TRUARC003C050S	3 x 50	396/0.4	35.51	2612	DBW-08(UN)
RCBS06TRUARC003C070S	3 x 70	360/0.5	39.87	3463	DBW-08(UN)
RCBS06TRUARC003C095S	3 x 95	484/0.5	45.46	4568	DBW-010A(UN)
RCBS06TRUARC003C120S	3 x 120	608/0.5	49.33	5540	DBW-010A(UN)
RCBS06TRUARC003C150S	3 x 150	750/0.5	54.36	6772	DBW-011SP(UN)
RCBS06TRUARC003C185S	3 x 185	925/0.5	59.75	8258	DBW-012(UN)
RCBS06TRUARC003C240S	3 x 240	1210/0.5	67.4	10646	DBW-013(UN)
RCBS06TRUARC003C300S	3 x 300	1527/0.5	74.74	13255	DBW-014(UN)
RCBS06TRUARC004C004S	4 x 4	56/0.3	15.03	387	DBW-01A(UN)
RCBS06TRUARC004C006S	4 x 6	84/0.3	17.03	522	DBW-01A(UN)
RCBS06TRUARC004C010S	4 x 10	80/0.4	22.48	905	DBW-04A(UN)
RCBS06TRUARC004C016S	4 x 16	126/0.4	25.39	1241	DBW-05A(UN)
RCBS06TRUARC004C025S	4 x 25	196/0.4	30.43	1834	DBW-06SP(UN)
RCBS06TRUARC004C035S	4 x 35	276/0.4	33.91	2396	DBW-07SP(UN)
RCBS06TRUARC004C050S	4 x 50	396/0.4	39.3	3305	DBW-08(UN)
RCBS06TRUARC004C070S	4 x 70	360/0.5	44.32	4416	DBW-010A(UN)
RCBS06TRUARC004C095S	4 x 95	484/0.5	50.86	5871	DBW-010A(UN)
RCBS06TRUARC004C120S	4 x 120	608/0.5	54.72	7062	DBW-011SP(UN)
RCBS06TRUARC004C150S	4 x 150	750/0.5	60.46	8661	DBW-012(UN)
RCBS06TRUARC004C185S	4 x 185	925/0.5	66.6	10590	DBW-013(UN)
RCBS06TRUARC004C240S	4 x 240	1210/0.5	75	13636	DBW-014(UN)
RCBS06TRUARC004C300S	4 x 300	1527/0.5	83.29	17010	DBW-015(UN)
RCBS06TRUARC005C004S	5 x 4	56/0.3	16.71	418	DBW-01A(UN)
RCBS06TRUARC005C006S	5 x 6	84/0.3	18.86	566	DBW-02(UN)
RCBS06TRUARC005C010S	5 x 10	80/0.4	24.69	979	DBW-04A(UN)
RCBS06TRUARC005C016S	5 x 16	126/0.4	28.1	1362	DBW-05A(UN)
RCBS06TRUARC005C025S	5 x 25	196/0.4	33.6	2006	DBW-07SP(UN)

• DBW – Weather proof Series

POLYCAB H07BN4-F BS EN 50525-2-21 MC

Rubber Cable, 450/750 V AC

Electrical Characteristics

Current carrying capacity and max. DC conductor resistance.

Nominal cross sectional area	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 cables, touching	1 three-core, four core or five core	
mm ²	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
25	136	–	119	0.795
35	–	200	146	0.565
50	–	250	177	0.393
70	–	310	225	0.277
95	–	369	273	0.21
120	–	432	316	0.164
150	–	497	363	0.132
185	–	567	414	0.108
240	–	673	487	0.0817
300	–	773	560	0.0654
400	–	924	–	0.0495
500	–	1,062	–	0.0391
630	–	1,242	–	0.0292

The ambient temperature is 30°C.

Conductor operating temperature 90°C.

The above table is in accordance with Table 4F2A 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