



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB H07BN4-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 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



**POLY CAB H07BN4-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 ²) | No. of strands/strand dia. | Overall Diameter(mm) | Weight (Approx.) kg/km | POLY CAB/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) |

**POLY CAB H07BN4-F BS EN 50525-2-21 MC
Rubber Cable, 450/750 V AC**

POLY CAB
IDEAS. CONNECTED.

| Product Code | Construction (n x mm ²) | No. of strands/strand dia. | Overall Diameter(mm) | Weight (Approx.) kg/km | POLY CAB/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

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 |