

## Multicore Submersible EPR/CPE Cable HO5/HO7 RN-F 90°C 0.6/1kV

Rubber Flexible Cables  
 Submersible EPR/CPE  
 300/500V  
 0.6/1kV



### Cable Construction

- Conductor:** Tinned copper conductors, acc. to VDE 0295, class 5
- Insulation:** EPR rubber insulation type E14 acc. to HD22
- Sheath:** CPE Rubber outer sheath.

### Operating Temperature

- Minimum permissible ambient temperature -40°C
- Maximum permissible short circuit temperature 250°C
- Minimum ambient temperature for optimum fully flexible operation -30°C

### Voltage

- The cable is designated 450/750V with E14 insulation compound in accordance with VDE/IEC and meets or exceeds the Australian Standard AS/NZS 5000.1 for the voltage rating of 0.6/1kV, R-EP-90.
- HO5R-NF 0.3/0.5kV
- HO7R-NF 0.6/1.0kV

### Relevant Standards

AS/NZS 5000.1, AS/NZS 1125,  
 IEC 92-3, IEC 92-350, IEC 92-353  
 IEC 60332-1, AS/NZS 3808

### Core Colour

2 core - Blue, Brown  
 3 core - Blue, Brown, Green/Yellow  
 4 core - Brown, Black, Grey, Green/Yellow  
 5 core - Brown, Black, Grey, Blue, Green/Yellow  
 7 core plus - Black cores White numbered with earth core in total

### Properties

- Good tensile strength, tearing strength and abrasion resistance
- Good dielectric properties
- Diluted acid resistant
- Submersible to 100m
- Oil resistant
- Resistant to environmental factors like oxidation, ozone, sunlight
- Flame retardant
- Very good behaviour to variations of outdoor temperature.

### Typical Uses

- For medium level mechanical loads, for use in dry and damp locations, for outdoor use.
- For industrial and workshop equipment
- For connections of mobile machines and engines on construction sites.
- As fixed installation.
- As a submersible cable

The materials used in the manufacture of these cables are RoHS Compliant.

### Minimum Bending Radius

4 times diameter after install  
 6 times diameter during install

### Current Rating

As per Tables 11 & 14 of AS/NZS 3008

### HO5RN-F 300/500V

| Part Number | Size mm <sup>2</sup> | Nom. Stranding No./mm | Nom. Overall Dia. mm | Approx. Cable Weight Kg/Km | Max. Amps 40°C Unenclosed Touching |
|-------------|----------------------|-----------------------|----------------------|----------------------------|------------------------------------|
| HO2/0.75BK  | 2 x 0.75             | 24/0.20               | 6.4                  | 78                         | 12                                 |
| HO3G0.75BK  | 3 x 0.75             | 24/0.20               | 7.0                  | 94                         | 12                                 |
| HO4G0.75BK  | 4 x 0.75             | 24/0.20               | 8.8                  | 90                         | 12                                 |
| HO2/1.0BK/5 | 2 x 1.0              | 32/0.20               | 7.1                  | 94                         | 18                                 |
| HO3G1.0BK/5 | 3 x 1.0              | 32/0.20               | 8.5                  | 114                        | 18                                 |

0.3/0.5kV

### HO7RN-F 0.6/1kV

| Part Number | Size mm <sup>2</sup> | Nom. Stranding No./mm | Nom. Overall Dia. mm | Approx. Cable Weight Kg/Km | Max. Amps 40°C Unenclosed Touching |
|-------------|----------------------|-----------------------|----------------------|----------------------------|------------------------------------|
| HO2/1.0BK/7 | 2 x 1.0              | 32/0.20               | 9.4                  | 100                        | 18                                 |
| HO3G1.0BK/7 | 3 x 1.0              | 32/0.20               | 9.1                  | 129                        | 15                                 |
| HO4G1.0BK   | 4 x 1.0              | 32/0.20               | 10.0                 | 168                        | 15                                 |
| HO5G1.0BK   | 5 x 1.0              | 32/0.20               | 11.0                 | 209                        | 15                                 |
| HO2/1.5BK   | 2 x 1.5              | 30/0.25               | 9.4                  | 130                        | 23                                 |
| HO3G1.5BK   | 3 x 1.5              | 30/0.25               | 10.1                 | 160                        | 19                                 |
| HO4G1.5BK   | 4 x 1.5              | 30/0.25               | 11.5                 | 209                        | 19                                 |
| HO5G1.5BK   | 5 x 1.5              | 30/0.25               | 12.5                 | 262                        | 19                                 |
| HO7G1.5BK   | 7 x 1.5              | 30/0.25               | 13.6                 | 373                        | 19                                 |
| HO12G1.5BK  | 12 x 1.5             | 30/0.25               | 18.1                 | 480                        | 19                                 |
| HO18G1.5BK  | 18 x 1.5             | 30/0.25               | 21.2                 | 690                        | 19                                 |
| HO27G1.5BK  | 27 x 1.5             | 30/0.25               | 28.1                 | 1102                       | 19                                 |
| HO2/2.5BK   | 2 x 2.5              | 50/0.25               | 11.5                 | 190                        | 30                                 |
| HO3G2.5BK   | 3 x 2.5              | 50/0.25               | 12.0                 | 230                        | 26                                 |
| HO4G2.5BK   | 4 x 2.5              | 50/0.25               | 13.5                 | 340                        | 26                                 |
| HO5G2.5BK   | 5 x 2.5              | 50/0.25               | 15.0                 | 379                        | 26                                 |
| HO7G2.5BK   | 7 x 2.5              | 50/0.25               | 16.1                 | 565                        | 26                                 |
| HO12G2.5BK  | 12 x 2.5             | 50/0.25               | 21.8                 | 690                        | 26                                 |
| HO18G2.5BK  | 18 x 2.5             | 50/0.25               | 26.5                 | 1010                       | 26                                 |
| HO27G2.5BK  | 27 x 2.5             | 50/0.25               | 33.5                 | 1521                       | 26                                 |
| HO2/4.0BK   | 2 x 4.0              | 56/0.30               | 13.0                 | 270                        | 40                                 |
| HO3G4.0BK   | 3 x 4.0              | 56/0.30               | 14.0                 | 327                        | 34                                 |
| HO4G4.0BK   | 4 x 4.0              | 56/0.30               | 15.5                 | 435                        | 34                                 |
| HO5G4.0BK   | 5 x 4.0              | 56/0.30               | 17.1                 | 545                        | 34                                 |
| HO7G4.0BK   | 7 x 4.0              | 56/0.30               | 20.9                 | 902                        | 34                                 |
| HO2/6.0BK   | 2 x 6.0              | 84/0.30               | 14.5                 | 350                        | 51                                 |
| HO3G6.0BK   | 3 x 6.0              | 84/0.30               | 15.5                 | 430                        | 43                                 |
| HO4G6.0BK   | 4 x 6.0              | 84/0.30               | 17.5                 | 571                        | 43                                 |
| HO5G6.0BK   | 5 x 6.0              | 84/0.30               | 19.1                 | 712                        | 43                                 |
| HO7G6.0BK   | 7 x 6.0              | 84/0.30               | 24.8                 | 956                        | 43                                 |
| HO2/10BK    | 2 x 10               | 80/0.40               | 19.5                 | 620                        | 72                                 |
| HO3G10BK    | 3 x 10               | 77/0.40               | 21.0                 | 748                        | 61                                 |
| HO4G10BK    | 4 x 10               | 80/0.40               | 23.0                 | 982                        | 61                                 |
| HO5G10BK    | 5 x 10               | 80/0.40               | 25.0                 | 1216                       | 61                                 |
| HO2/16BK    | 2 x 16               | 126/0.40              | 22.0                 | 850                        | 96                                 |
| HO3G16BK    | 3 x 16               | 126/0.40              | 24.0                 | 1036                       | 81                                 |
| HO4G16BK    | 4 x 16               | 126/0.40              | 26.0                 | 1367                       | 81                                 |
| HO5G16BK    | 5 x 16               | 126/0.40              | 28.3                 | 1699                       | 81                                 |
| HO3G25BK    | 3 x 25               | 196/0.40              | 29.0                 | 1926                       | 108                                |

| Part Number | Size mm <sup>2</sup> | Nom. Stranding No./mm | Nom. Overall Dia. mm | Approx. Cable Weight Kg/Km | Max. Amps 40°C Unenclosed Touching |
|-------------|----------------------|-----------------------|----------------------|----------------------------|------------------------------------|
| HO4G25BK    | 4 x 25               | 196/0.40              | 32.4                 | 2012                       | 108                                |
| HO5G25BK    | 5 x 25               | 196/0.40              | 35.8                 | 2508                       | 108                                |
| HO4G35BK    | 4 x 35               | 276/0.40              | 35.0                 | 2330                       | 135                                |
| HO5G35BK    | 5 x 35               | 276/0.40              | 37.6                 | 2925                       | 135                                |
| HO4G50BK    | 4 x 50               | 396/0.40              | 44.2                 | 3635                       | 170                                |
| HO5G50BK    | 5 x 50               | 396/0.40              | 49.1                 | 4680                       | 170                                |
| HO4G70BK    | 4 x 70               | 540/0.40              | 48.8                 | 4830                       | 214                                |
| HO5G70BK    | 5 x 70               | 540/0.50              | 54.0                 | 6037                       | 214                                |
| HO4G95BK    | 4 x 95               | 715/0.50              | 53.3                 | 5965                       | 256                                |
| HO5G95BK    | 5 x 95               | 715/0.50              | 60.6                 | 7280                       | 256                                |
| HO4G120BK   | 4 x 120              | 920/0.50              | 57.9                 | 7279                       | 303                                |

0.6/1kV

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