

VULCANFLEX DN-F 0,6/1 kV / H07RN-F / H07RN8-F



- **Standards (construction/tests):** EN 50525-2-21, IEC 60245-4 & UNE 21150.
- **Technical designation:** DN-F 0,6/1 kV / H07RN-F / H07RN8-F (60245 IEC 66).

• **Construction:**

- **Conductor:** Copper, class 5 (UNE-EN IEC 60228).
- **Insulation:** Cross-linked elastomer type EPR (IEC 60502-1), IE4 (IEC 60245-1) & EI4 & EI7 (EN 50363-1).
Assembly of cores (multicore cables): Cores cabled helically.
- **Oversheath:** Cross-linked elastomer type SE1 (IEC 60502-1), SE4 (IEC 60245-1) & EM2 (EN 50363-2-1).

- **Rated voltage (Uo/U):** 0,6/1 kV (mobile & fixed use).

- **Max. conductor temperature. Normal operation / short-circuit (t≤5s):** 90 °C / 250 °C.

- **Range:** Single-core or multicore cable.

Configurations:

- **DN-F 0,6/1 kV / H07RN-F / H07RN8-F:** 1X(1,5-...-240) mm² / 2X(1,5-...-25) mm² / 3G(1,5-...-25) mm² / 4G(1,5-...-25) mm² / 5G(1,5-...-25) mm².
- **H07RN-F / H07RN8-F:** 2X1 mm² / 3G1 mm² / 4G1 mm² / 5G1 mm².

- **Reaction to fire classification (CPR - EN 50575 & EN 13501-6):** Eca.

- **Other fire performance features (when CPR Regulation is not applicable):** Flame retardant (IEC 60332-1-2).

- **Applications:** Flexible cable suitable for both fixed and mobile applications, specially designed as a power cable for portable equipment, extension leads, and outdoor cable reels intended for heavy duty service (e.g., industrial environments, agricultural and livestock facilities, wind turbines, temporary or provisional construction sites, fairs or exhibition stands, caravans and caravan parks, ports, marinas...).

It can also be used in fixed installations, inside conduit or in open air on supports, and as internal wiring for machinery.

Weather- and UV-resistant (AN3), and suitable for permanent immersion (AD8), for example, for supplying power to submersible pumps.

Guide for use (according to EN 50565-2):

"Use in industrial and agricultural workshops, building sites, for heavy duty applications and supplying industrial and agricultural machines and appliances where cables are subject to medium mechanical stresses (e.g. heating plates, inspection lamps, electric tools such as drills, circular saws, and domestic electric tools). Use in dry, humid or moist rooms. Fixed installations, e.g. on rough-cast in temporary buildings and huts for accommodation purposes."

– **External influence conditions:**

- Presence of water (AD8 - Submersion, permanently and totally covered).
- Corrosive or polluting substances (AF3).
- Impact resistance (AG2).
- Suitable for mobile use and presence of vibrations (AH3).
- Suitable for frequent bending.
- Suitable for permanent outdoor use and UV resistant (AN3).
- High abrasion resistance.

– **Ambient temperature range of use:**

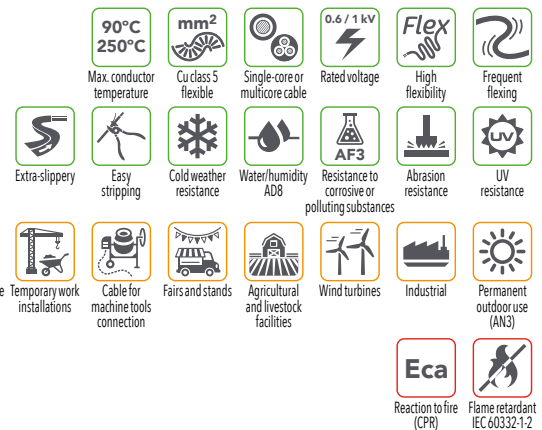
- **Max. cable surface temperature (mobile use):** skin contact should be avoided when using these cables unless it has been properly verified that the sheath temperature does not exceed +50 °C.
- **Max. storage temperature:** +40 °C.
- **Min. temperature during installation, handling, and/or accessory assembly:** –25 °C.
- **Min. ambient temperature (static, fixed, mechanically protected installation):** –40 °C.

– **Minimum bending radius:**

- **Fixed installation:** 4xD.
- **Free movement or at inlet of portable appliance or mobile equipment without mechanical load on the cable:** 4xD - D ≤ 12 mm; 5xD - 12 < D ≤ 20 mm; 6xD - D > 20 mm.
- **With mechanical load:** 6xD - D ≤ 20; 8xD - D > 20 mm.
D = overall cable diameter (mm).

– **Maximum pulling force:**

F = 15xS (N). "S" = nominal conductor cross-section (mm²). Applied to copper conductors under static tensile stress. If stress exceeds these values, a separate

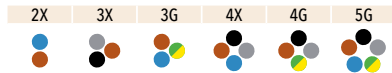


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* Short product code. Must be completed with the corresponding characters for 'oversheath colour' and 'packaging'. Check the 'Miguélez product code' section on our web page, in 'Downloads'.
 ** Check the CPR-classified range and the range included in the certifications indicated for each product, as well as much more information about our products, on the website: www.miguellez.com
 *** Dimensional and weight values are approximate and subject to normal manufacturing tolerances.
 **** It is the sole responsibility of the end user to determine suitability of this product for its intended use and application. Please, consult the regulations, laws or standards that are applicable to each particular case. The installation systems and additional requirements established by any regulation, law and/or standards applicable to each particular case must be met.

stress-bearing member or device shall be used. The method of attaching such a member or device to the cable shall be such that the cable is not damaged.

- **Identification:** Oversheath colour → Black.
– Core identification for multicore cables (From 2 to 5): HD 308 S2.



- **Packaging:** Drum/cut length. Other formats (coils or reels) on request.

| Code* | No. of cores & nominal cross-sectional area | Insulation thickness | Overall diameter | Total weight | Maximum electrical resistance at 20°C (DC) |
|-------------|---|----------------------|------------------|--------------|--|
| | mm ² | | | | |
| 82220101-50 | 1 X 1.5 | 1 | 6.3 | 42 | 13.3 |
| 82220102-50 | 1 X 2.5 | 1 | 6.7 | 56 | 7.98 |
| 82220100040 | 1 X 4 | 1 | 7.5 | 78 | 4.95 |
| 82220100060 | 1 X 6 | 1 | 8.2 | 117 | 3.3 |
| 82220100100 | 1 X 10 | 1.2 | 9.9 | 157 | 1.91 |
| 82220100160 | 1 X 16 | 1.2 | 11.1 | 219 | 1.21 |
| 82220100250 | 1 X 25 | 1.4 | 12.9 | 319 | 0.780 |
| 82220100350 | 1 X 35 | 1.4 | 14.5 | 429 | 0.554 |
| 82220100500 | 1 X 50 | 1.6 | 16.5 | 594 | 0.386 |
| 82220100700 | 1 X 70 | 1.6 | 18.9 | 799 | 0.272 |
| 82220100950 | 1 X 95 | 1.8 | 21.4 | 1041 | 0.206 |
| 82220101200 | 1 X 120 | 1.8 | 23.5 | 1307 | 0.161 |
| 82220101500 | 1 X 150 | 2 | 26.0 | 1619 | 0.129 |
| 82220101850 | 1 X 185 | 2.2 | 28.2 | 1973 | 0.106 |
| 82220102400 | 1 X 240 | 2.4 | 32.0 | 2547 | 0.0801 |
| 82220200010 | 2 X 1 | 0.8 | 8.2 | 45 | 19.5 |
| 82220201-50 | 2 X 1.5 | 1 | 11.4 | 98 | 13.3 |
| 82220202-50 | 2 X 2.5 | 1 | 11.3 | 144 | 7.98 |
| 82220200040 | 2 X 4 | 1 | 12.6 | 202 | 4.95 |
| 82220200060 | 2 X 6 | 1 | 14.5 | 265 | 3.3 |
| 82220200100 | 2 X 10 | 1.2 | 18.8 | 532 | 1.91 |
| 82220200160 | 2 X 16 | 1.2 | 21.2 | 717 | 1.21 |
| 82220200250 | 2 X 25 | 1.4 | 25.0 | 1041 | 0.780 |
| 82220310010 | 3 G 1 | 0.8 | 8.8 | 89 | 19.5 |
| 82220311-50 | 3 G 1.5 | 1 | 10.8 | 117 | 13.3 |
| 82220312-50 | 3 G 2.5 | 1 | 12.3 | 174 | 7.98 |
| 82220310040 | 3 G 4 | 1 | 13.6 | 246 | 4.95 |
| 82220310060 | 3 G 6 | 1 | 15.5 | 325 | 3.3 |
| 82220310100 | 3 G 10 | 1.2 | 20.2 | 657 | 1.91 |
| 82220310160 | 3 G 16 | 1.2 | 22.8 | 894 | 1.21 |
| 82220300250 | 3 X 25 | 1.4 | 26.8 | 1302 | 0.780 |
| 82220410010 | 4 G 1 | 0.8 | 9.8 | 108 | 19.5 |
| 82220411-50 | 4 G 1.5 | 1 | 11.9 | 143 | 13.3 |
| 82220412-50 | 4 G 2.5 | 1 | 13.6 | 213 | 7.98 |
| 82220410040 | 4 G 4 | 1 | 15.5 | 302 | 4.95 |
| 82220410060 | 4 G 6 | 1 | 18.1 | 407 | 3.3 |
| 82220400100 | 4 X 10 | 1.2 | 22.0 | 800 | 1.91 |
| 82220400160 | 4 X 16 | 1.2 | 24.9 | 1097 | 1.21 |
| 82220400250 | 4 X 25 | 1.4 | 29.7 | 1631 | 0.780 |
| 82220510010 | 5 G 1 | 0.8 | 10.8 | 130 | 19.5 |
| 82220511-50 | 5 G 1.5 | 1 | 13.1 | 171 | 13.3 |
| 82220512-50 | 5 G 2.5 | 1 | 14.5 | 254 | 7.98 |
| 82220510040 | 5 G 4 | 1 | 16.7 | 368 | 4.95 |
| 82220510060 | 5 G 6 | 1 | 18.5 | 494 | 3.3 |
| 82220510100 | 5 G 10 | 1.2 | 24.2 | 962 | 1.91 |
| 82220510160 | 5 G 16 | 1.2 | 27.5 | 1334 | 1.21 |
| 82220510250 | 5 G 25 | 1.4 | 32.8 | 1979 | 0.780 |

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