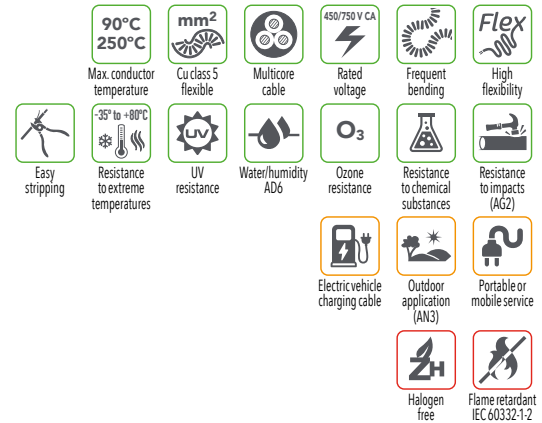
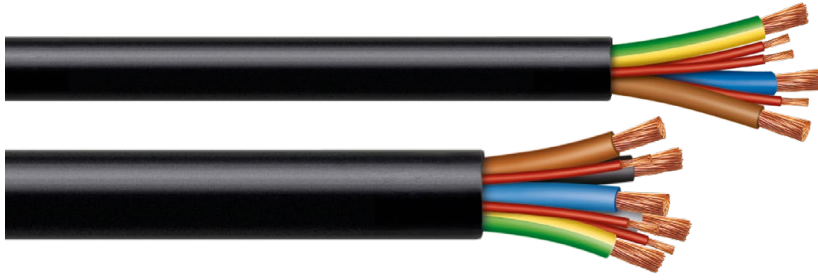


**AFIREFLEX EVC H07BZ5-F (EV CHARGING CABLE)**

MIGUÉLEZ ARTICLE GROUP  
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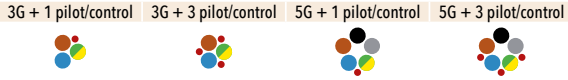
- **Standards (construction / tests):** EN 50620 / IEC 62893-3.
- **Technical designation:** H07BZ5-F / 62893 IEC 123.
- **Construction:**
  - **Conductor:** Copper, flexible, suitable for mobile and portable applications, class 5 (EN 60228 / IEC 60228).
  - **Insulation:** Crosslinked compound, halogen free, type EVI-2 (EN 50620 / IEC 62893-1).
  - **Oversheath:** Crosslinked compound, halogen free, type EVM-1 (EN 50620 / IEC 62893-1).
- **Rated voltage (Uo/U):** 450/750 VAC (Umax= 480/825 VAC).
- **Max. conductor temperature. Normal operation / short-circuit (t≤5s):** 90 °C / 250 °C.
- **Range: Multicore. Configurations:** 3G(1.5...6) mm<sup>2</sup> / 5G(2.5...6) mm<sup>2</sup>.  
Cable can include from 1 to 3 pilot/control cores with cross-sectional areas of 0.5 or 0.75 mm<sup>2</sup>, depending on customer particular needs.
- **Fire performance features:**
  - Flame retardant (IEC 60332-1-2).
  - Halogen free (EN 50525-1 annex B).
- **Applications:** Halogen free cable for mobile or portable applications under severe conditions for the power supply between the electricity supply point or charging station and the electric vehicle (EV).  
Specially intended to supply power (AC) and if needed communication to an electric vehicle.  
Proper for ordinary and heavy-duty mobile applications (cable runs shorter than 10 m are recommended).  
Cable suitable for charging modes 1, 2 and 3 according to the EN 61851-1 standard.  
This cable is understood without exception as the pure cable component without any type of accessories or plugs and it may be:
  - a) an integral part of the vehicle (case A of EN 61851-1 standard);
  - b) the cable part of a detachable cable assembly with a vehicle connector and AC power connection to a socket outlet (case B of EN 61851-1 standard);
  - c) permanently attached to a fixed charging point (case C of EN 61851-1 standard).
- **Behavior against external influences:**
  - Presence of water: AD6.
  - Impact: AG2.
  - Vibrations: AH3.
  - Suitable for frequent flexing.
  - Good resistance to corrosive or polluting substances.
  - Suitable for permanent outdoor use.
  - Ozone resistance (EN 50620).
  - Weather and UV resistance (EN 50620).
- **Temperature ranges:**
  - **Maximum cable surface temperature:** +80 °C (skin contact should be avoided when operating these cables unless calculations show that the surface temperature does not exceed 50 °C).
  - **Maximum storage temperature:** +40 °C.
  - **Minimum installation and handling temperature:** -35 °C.
- **Minimum bending radius at 20 °C +/- 10 °C (mm):**
  - **Free movement or at inlet of portable appliance or mobile equipment with no mechanical load on the cable:**  
(4xD - D ≤ 12 mm; 5xD - 12 < D ≤ 20 mm; 6xD - D > 20 mm).
  - **Under mechanical load:** (6xD - D ≤ 20; 8xD - D > 20 mm).  
D = cable overall diameter (mm).
- **Maximum pulling tension:**
  - F = 15xS (N). "S" = cross sectional are of cores (mm<sup>2</sup>). Applied on copper conductors, under static tensile stress.
  - In circumstances where a stress exceeding these values would result, a separate 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.

\* Find more information about our products, on the website: [www.miguelélez.com](http://www.miguelélez.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.

- **Identification:** Oversheath color → Black.
  - Core identification for multicore cables (power cores): HD 308 S2.
  - Pilot and control cores: Red (for several pilot or control cores, red cores with identification by numbers acc. to EN 50334).



- **Packaging:** Drum (03). Other formats under request.
- MIGUELEZ AFIREFLEX EVC H07BZ5-F NX/GS + nXs mm<sup>2</sup> 450/750 V EN 50620 62893 IEC 123 - MM/YY**  
*Minimum content of the marking.*

N: Number of main cores.  
 n: Number of pilot/control cores.  
 X or G: X= configuration without G/Y core; G= configuration with G/Y core.  
 S: Cross sectional area (main cores).  
 s: Cross sectional area of pilot/control cores.

No. of cores & nominal cross-sectional area	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)	Current rating Ambient temperature: 30°C
mm <sup>2</sup>	mm	kg/km	Ω/km	A
3G1.5 + 1X0.5	9.5	110	13.3 / 39.0	14
3G2.5 + 1X0.5	10.2	150	7.98 / 39.0	25
3G4 + 1X0.75	10.8	198	4.95 / 26.0	35
3G4 + 3X0.75	10.9	210	4.95 / 26.0	35
3G6 + 1X0.5	14.0	280	3.30 / 39.0	44
3G6 + 1X0.75	11.9	260	3.30 / 26.0	44
3G6 + 3X0.75	15.0	330	3.30 / 26.0	44
5G2.5 + 1X0.5	12.8	230	7.98 / 39.0	20
5G4 + 1X0.75	13.0	291	4.95 / 26.0	30
5G4 + 3X0.75	13.2	310	4.95 / 26.0	30
5G6 + 1X0.75	14.6	394	3.30 / 26.0	38
5G6 + 3X0.75	17.0	470	3.30 / 26.0	38



NOTE: The product is supplied without accessories or plugs.

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\* Short product code. Must be completed with the corresponding characters for 'oversheath colour' and 'packaging'. Check the 'Miguelélez 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.miguelélez.com](http://www.miguelélez.com)  
 \*\*\* Dimensional and weight values are approximate and subject to normal manufacturing tolerances.  
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