

Cables that carry us to change



AFIREFLEX EV

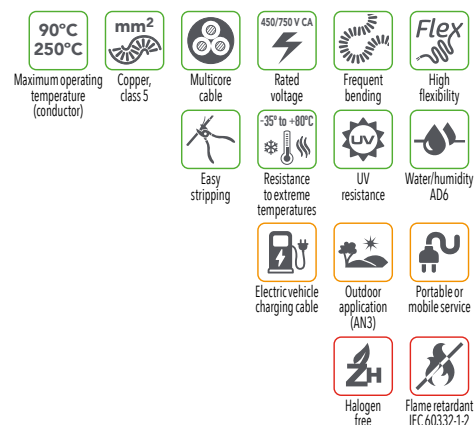
H07BZ5-F



Migüelez
CABLES

NEARBY AND RELIABLE

AFIREFLEX EV H07BZ5-F (EV CHARGING CABLE)

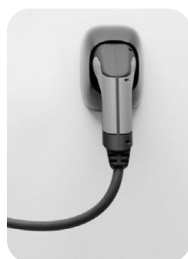
MIGUELÉZ ARTICLE GROUP
221

- **Standards (construction / tests):** EN 50620.
- **Technical designation:** H07BZ5-F.
- **Construction:** Conductor: Copper, class 5 (for mobile applications) / Isolation: Halogen free crosslinked compound EVI-2 / Oversheath: Halogen free crosslinked compound EVM-1.
- **Rated voltage (Uo/U):** 450/750 V AC (U_{max} = 480/825 V AC).
- **Max. conductor temperature. Normal operation / short-circuit (t_s ≤ 5s):** 90 °C / 250 °C.
- **Range:** Multicore. **Configurations:** 3G(1.5...6) mm² / 5G(2.5...6) mm².
Cable can include from 1 to 3 pilot/control cores with cross-sectional areas of 0.5 or 0.75 mm², depending on customer particular needs.
- **Fire performance features:** Flame retardant (IEC 60332-1-2).
- **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.
- **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 area of cores (mm²). 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.
- **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).

3G + 1 pilot/control 3G + 3 pilot/control 5G + 1 pilot/control 5G + 3 pilot/control



- **Packaging:** Drum (03). Other formats under request.



NOTA: The product is supplied without accessories or plugs.

| 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 ² | 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 | 12,1 | 277 | 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 | 14,8 | 412 | 3,30 / 26,0 | 38 |

* Find more information about our products, on the website: 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.

Miguēlez

CABLES

 Part of the solution

CUSTOMER SERVICE



+34 987 845 101



migulelez@migulelez.com

