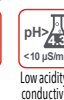
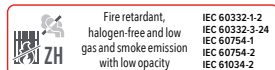


AFIRENAS-MAN H05Z1Z1-F

DoP: MEH05Z1Z1F. MIGUÉLEZ ARTICLE GROUP

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- Standard (construction/tests): EN 50525-3-11.

- Technical designation: H05Z1Z1-F.

- Construction:

- Conductor: Copper, class 5, flexible, suitable for mobile & portable service (EN 60228 / IEC 60228).
- Insulation: Thermoplastic polyolefin LSZH, type TI 6 (EN 50363-7).
- Oversheath: Thermoplastic polyolefin LSZH, type TM 7 (EN 50363-8).

- Rated voltage (Uo/U): 300/500 VAC.

- Max. conductor temperature. Normal operation / short-circuit ($t \leq 5s$): 60 °C / 150 °C (70 °C / 160 °C).

Maximum conductor temperatures of 70 °C / 160 °C are valid when the cable is used inside equipment, or it can be guaranteed that there will be no contact with the skin.

- Range: Multicore cable (2, 3, 4 or 5). Cross-sectional area: 1 mm².

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

- Other fire performance features (when CPR Regulation is not applicable): Flame retardant, fire retardant, halogen-free and low gas and smoke emission with low opacity/toxicity/corrosivity/conductivity (IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2 and IEC 61034-2).

- Applications: Cable for mobile or portable application in indoor installations.

Especially suitable if low corrosive gas and smoke emission is required in case of fire (e.g. trade fairs and stands).

Suitable for mobile or portable service with moderate mechanical stresses (Duty: Ordinary).

It can also be used in conduits or similar closed systems for fixed installation.

Behavior against external influences:

- Presence of water: AD2. Free falling drops. Probability of drops falling vertically.
- Presence of corrosive or polluting substances: AF3. Intermittent or accidental subjection to corrosive or polluting substances.
- Mechanical resistance to impacts: AG1. Low.
- Use outdoors for temporary periods of short duration (AN1).
- Suitable for frequent flexing.

Temperature ranges:

- Maximum cable surface temperature: +50 °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: +5 °C.

Minimum bending radius at 20 °C \pm 10 °C (mm):

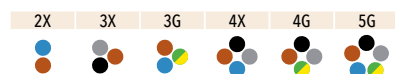
- Fixed installation: 3xD ($D \leq 12$); 4xD ($D > 12$).
 - Free movement: 5xD ($D \leq 12$); 6xD ($D > 12$).
 - At inlet of portable appliance or mobile equipment with no mechanical load on the cable: 5xD ($D \leq 12$); 6xD ($D > 12$).
- D = cable overall diameter (mm).

Maximum pulling tension: $F = 15 \times S$ (N).

"S" = cross sectional area of cores (mm²). Applied on copper conductors, under static tensile stress.

- Identification: Oversheath colour → Green.

Core identification: HD 308 S2 and UNE 21089-1.



- Packaging: Coils (100 m). Pallet 7.200 m (2X1, 3G1, 4G1 mm²). Pallet 4.800 m (5G1 mm²).

Code*	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)	Current rating EN 50565-1 Ambient temperature: 30 °C
	mm²	mm	mm	kg/km	Ω/km	A
82120200010	2 X 1	0.6	6.4	60	19.5	10
82120310010	3 G 1	0.6	6.9	75	19.5	10
82120410010	4 G 1	0.6	7.6	95	19.5	10
82120510010	5 G 1	0.6	8.3	110	19.5	10

Contact our sales department for other combinations.

* 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

*** 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.