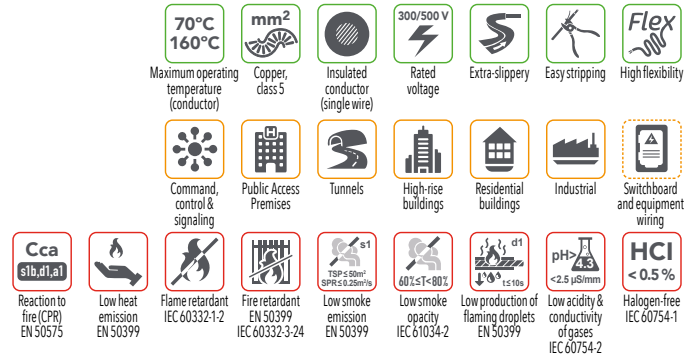


AFIRENAS-L H05Z1-K / ES05Z1-K (AS)

DoP: MCH05Z1K. MIGUÉLEZ ARTICLE GROUP 204



- Standards (construction/tests): EN 50525-3-31 and UNE 211002.
- Technical designation: H05Z1-K / ES05Z1-K (AS).
- Construction: Conductor: Copper, class 5 / Insulation: Thermoplastic polyolefin, type Tl 7 (LSZH).
- Rated voltage (Uo/U): 300/500 V AC.
- Max. conductor temperature. Normal operation / short-circuit (t≤5s): 70 °C / 160 °C.
- Range: Single wire (1x). Cross-sectional area: 0.5 / 0.75 / 1 mm<sup>2</sup>.
- Reaction to fire classification (CPR - EN 50575 & EN 13501-6): Cca-s1b,d1,a1.
- 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: Especially recommended for the internal wiring of switchboards, panels and/or electrical devices in public access premises (hospitals, airports, schools...), tunnels or any other installation that requires the aforementioned special performance in case of fire. Fixed installation protected inside appliances and in lighting fixtures. It is suitable for installation in surface-mounted or embedded conduits when used only for signalling or control circuits.
  - Temperature ranges:
    - Maximum continuous conductor operating temperature: +70 °C.
    - Maximum continuous conductor short-circuit temperature (t≤5s): +160 °C.
    - Maximum ambient temperature: +60 °C.
    - Maximum cable surface temperature: +70 °C
    - Maximum storage temperature: +40 °C.
    - Minimum installation and handling temperature: +5 °C.
    - Minimum ambient temperature: -30 °C (static, permanently installed, protected against mechanical damage, without exposure to movement, mechanical damages, shocks, or vibrations).
  - Minimum bending radius at 20 °C +/-10 °C (mm): 4xD. D = cable overall diameter (mm).
  - Maximum pulling tension during installation and handling:  
Applied on copper conductors **F = 15xS** (N). "S" = cross-sectional area of cores (mm<sup>2</sup>).
- Packaging: Coils (200 m). [1,000 m Package / 45,000 m Pallet].



Code*	Nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)	Available colours (1)
	mm <sup>2</sup>	mm	mm	kg/km	Ω/km	
82040100-50	1 x 0.5	0.6	2.3	9.1	39.0	Blue, Y/G, brown, black, grey, red and white
8204010-750	1 x 0.75	0.6	2.4	11.3	26.0	Blue, Y/G, brown, black, grey, red and white
82040100010	1 x 1	0.6	2.6	13.7	19.5	Blue, Y/G, brown, black, grey, red and white

(1) For other colours, contact our sales department.

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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  
 \*\*\* 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.