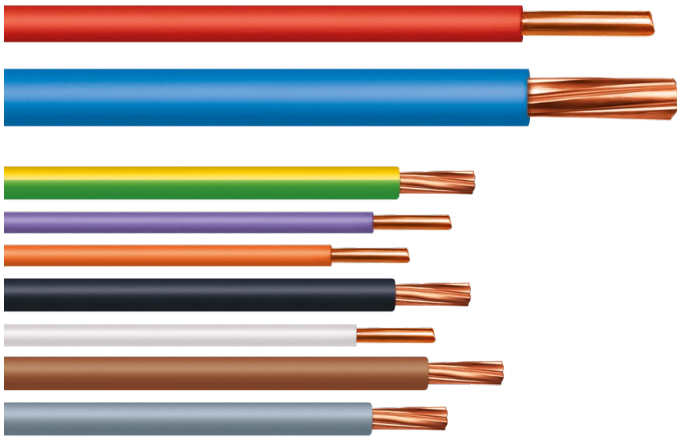


AFIRENAS H07Z1-U TYPE 2 (AS) & H07Z1-R TYPE 2 (AS)

DoP: **MCH07Z1UTYPE2 & MCH07Z1RTYPE2.** MIGUÉLEZ ARTICLE GROUP

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70°C 160°C Max. conductor temperature	mm² Cu class 1 or class 2	Insulated conductor	450/750 V Rated voltage	Extra-slippery	Easy stripping
Public access premises	Fire and explosion hazard	Tunnels	High-rise buildings	Residential buildings	
Industrial	Switchboard and equipment wiring	In wall embedded conduits	In surface-mounted cable ducting/conduits	Inside conduits in ceiling voids or raised floors	
Cca s1a,d1,a1 Reaction to fire (CPR)	Low heat emission EN 50399	Flame retardant IEC 60332-1-2	Fire retardant IEC 60332-3-24	Low smoke emission EN 50399	
T ≥ 80 s Low smoke opacity IEC 61034-2	d1 E5,10s Low production of flaming droplets EN 50399	pH > 2.5 pH > 2.5 Low acidity & conductivity of gases IEC 60754-2	s1 TSPP ≤ 50mm² SPR ≤ 0.25m²/m Halogen-free IEC 60754-1		

- Standards (construction/tests): EN 50525-3-31 and UNE 211002.
- Technical designation: H07Z1-U TYPE 2 (AS) / H07Z1-R TYPE 2 (AS).
- Construction: H07Z1-U TYPE 2 (AS) (s= 1.5 / 2.5 / 4 mm²) / H07Z1-R TYPE 2 (AS) (s≥6 mm²).
 - Conductor: Copper, class 1 (s= 1.5 / 2.5 / 4 mm²) or class 2 (s≥6 mm²) (IEC 60228).
 - Insulation: Thermoplastic polyolefin LSZH, type TI 7 (EN 50363-7).
- Rated voltage (Uo/U): 450/750 V AC.
- Max. conductor temperature. Normal operation / short-circuit (t≤5s): 70 °C / 160 °C.
- Range: Single-conductor. Cross-sectional area: From 1.5 to 120 mm².
- Reaction to fire classification (Construction Products Regulation): Cca-s1a,d1,a1.

• Other fire performance features (when CPR Regulation is not applicable): Flame & 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 designed for general wiring in public access premises (hospitals, airports, malls, cinemas, schools...), high-rise buildings, tunnels and any other installation that requires special behaviour in case of fire.

Installation in surface-mounted or embedded conduits (or similar closed systems). It is also suitable for internal wiring of switchboards, panels and electrical devices. It is recommended for fixed and protected installation in lighting and control gear for voltages up to and including 1.000 V A.C or up to 750 V D.C. to earth.

Temperature ranges:

- Maximum cable surface temperature: +70 °C
- Maximum storage temperature: +40 °C.
- Minimum ambient temperature: -30 °C (static, permanently installed, protected, without exposure to movement, mechanical damages, shocks, or vibrations).
- Minimum installation and handling temperature: +5 °C.

Minimum bending radius at 20 °C ± 10 °C (mm): 4xD (D≤8); 5xD (8<D≤12); 6xD (D>12).

D = cable overall diameter (mm).

Maximum pulling tension during installation and handling: Applied on copper conductors **F = 50xS (N)**. Max. 1000 N.

"S" = cross-sectional area of cores (mm²).

- Packaging: Coils (100, 200 m) and Drum/cut to length (s>10 mm²).

* 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.

Code*	Type of cable	Nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)	Max. current-carrying capacity 30 °C (1)	Max. current-carrying capacity 30 °C (2)	Available colours (3)
		mm ²	mm	mm	kg/km	Ω/km	A	A	
81030101-50	H07Z1-U TYPE 2 (AS)	1 X 1.5	0.7	2.8	20	12.1	17.5	15.5	Blue, Y/G, brown, black, grey, red, white, orange and violet
81030102-50	H07Z1-U TYPE 2 (AS)	1 X 2.5	0.8	3.4	30	7.41	24	21	Blue, Y/G, brown, black, grey, red, white, orange and violet
81030100040	H07Z1-U TYPE 2 (AS)	1 X 4	0.8	3.8	46	4.61	32	28	Blue, Y/G, brown, black and grey
81030100060	H07Z1-R TYPE 2 (AS)	1 X 6	0.8	4.6	66	3.08	41	36	Blue, Y/G, brown, black and grey
81030100100	H07Z1-R TYPE 2 (AS)	1 X 10	1.0	5.8	113	1.83	57	50	Blue, Y/G, brown, black and grey
81030100160	H07Z1-R TYPE 2 (AS)	1 X 16	1.0	6.9	170	1.15	76	68	Blue, Y/G, brown, black and grey
81030100250	H07Z1-R TYPE 2 (AS)	1 X 25	1.2	8.3	256	0.727	101	89	Blue, Y/G, brown, black and grey
81030100350	H07Z1-R TYPE 2 (AS)	1 X 35	1.2	9.6	350	0.524	125	110	Blue, Y/G, brown, black and grey
81030100500	H07Z1-R TYPE 2 (AS)	1 X 50	1.4	11.1	484	0.387	151	134	Blue, Y/G, brown, black and grey
81030100700	H07Z1-R TYPE 2 (AS)	1 X 70	1.4	12.9	660	0.268	192	171	Blue, Y/G, brown, black and grey
81030100950	H07Z1-R TYPE 2 (AS)	1 X 95	1.6	14.7	934	0.193	232	207	Blue, Y/G, brown, black and grey
81030101200	H07Z1-R TYPE 2 (AS)	1 X 120	1.6	16.3	1160	0.153	269	239	Blue, Y/G, brown, black and grey

(1) B1 reference method acc. to HD 60364-5-52. Single-phase circuit. Single loaded circuit.
 (2) B1 reference method acc. to HD 60364-5-52. Three-phase circuit. Single loaded circuit.

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

Code*	Type of cable	Nominal cross-sectional area	Quantity coil	Quantity package	Quantity pallet	Packaging code MIGUÉLEZ
		mm ²	m	m	m	
81030101-50	H07Z1-U TYPE 2 (AS)	1 X 1.5	200	1,000	30,000	08
81030101-50	H07Z1-U TYPE 2 (AS)	1 X 1.5	100	500	30,000	00
81030102-50	H07Z1-U TYPE 2 (AS)	1 X 2.5	200	600	27,000	08
81030102-50	H07Z1-U TYPE 2 (AS)	1 X 2.5	100	500	30,000	00
81030100040	H07Z1-U TYPE 2 (AS)	1 X 4	100	400	18,000	00
81030100060	H07Z1-R TYPE 2 (AS)	1 X 6	100	300	13,500	00
81030100100	H07Z1-R TYPE 2 (AS)	1 X 10	100	100	7,200	00
81030100160	H07Z1-R TYPE 2 (AS)	1 X 16	100	100	6,000	00
81030100250	H07Z1-R TYPE 2 (AS)	1 X 25	100	100	4,200	00
81030100350	H07Z1-R TYPE 2 (AS)	1 X 35	100	100	3,000	00

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 The installation systems and additional requirements established by any regulation, law and/or standards applicable to each particular case must be met.