

AFIRENAS AR-CORONA RZ1MZ1-K (AS) 0.6/1 kV

DoP : MC1000RZ1MZ1K-01. MIGUÉLEZ ARTICLE GROUP 403



• Standards (construction/tests): IEC 60502-1 and UNE 21123-4.

• Technical designation: RZ1MZ1-K (AS) 0.6/1 kV.

• Construction:

- Conductor: Copper, class 5 (EN 60228 / IEC 60228).
- Insulation: XLPE (IEC 60502-1) & type DIX 3 (UNE-HD 603-1).
- Inner Sheath: Thermoplastic polyolefin (HFFR), type ST8 (IEC 60502-1).
- Armour: Galvanized steel wires (IEC 60502-1)
- Oversheath: Thermoplastic polyolefin (HFFR), type ST8 (IEC 60502-1).

• Rated voltage (Uo/U): 0.6/1 kVAC.

• Max. conductor temperature. Normal operation / short-circuit (t≤5s): 90 °C / 250 °C.

• Range: Multicore cable. Configurations: 2X(1.5-...-150) mm² / (3-4)X or G(1.5-...-150) mm² / 5G(1.5-...-120) mm².

• 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 & 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: Armoured cable greatly indicated for LV distribution lines (DC & AC) which require mechanical protection and special behaviour in case of fire. It is suitable for places with fire hazard premises (e.g. petrochemical plants, gas stations, warehouses for flammable products, etc.), public access premises and tunnels.

Suitable for indoor and outdoor installations (protected from direct and continuous exposure to UV radiation), on supports in the air, in conduits or buried.

– Temperature ranges:

- Maximum ambient temperature: +70 °C.
- Minimum ambient temperature: -30 °C (static, permanently installed, protected against mechanical damage, without exposure to movement, mechanical damages, shocks, or vibrations).
- Minimum temperature for cable laying during installation and assembly of accessories: 0 °C. This temperature is valid for the cable itself and not for the environment. If possible, the temperature of the cable shall be raised before laying, e.g., in a heated building, to facilitate handling and reduce the risk of damages.

– Minimum bending radius: 10xD. D = overall diameter of the cable in mm. Bending nearby the temperature limits should be carried out extra carefully.

– Maximum pulling force:

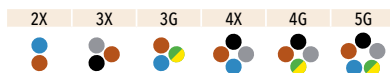
- If the traction force is applied on the copper conductors: $F = 50 \times S \text{ (N)}$. S = cross-sectional area of the conductors (mm²).
- If the traction force is applied on the oversheath: $F = 5 \times D^2 \text{ (N)}$. D = overall diameter of the cable (mm).

It is assumed that the cable route is well designed for the laying procedure with well-established curves and enough cable rollers. Special attention shall be paid to the required minimum bending radius.

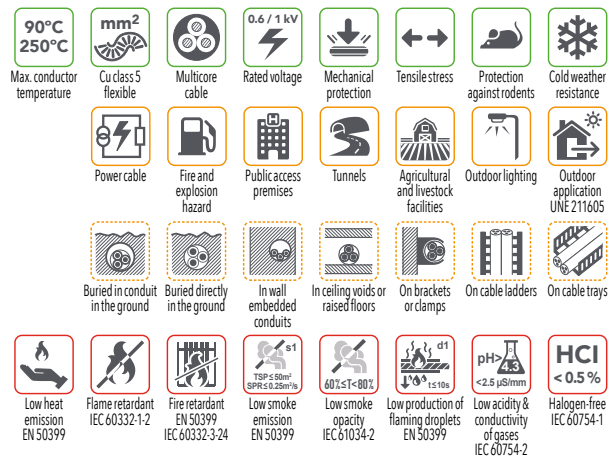
* NOTE: A range resistant to hydrocarbons, according to sections 2.3.3.3.3 and 2.3.3.4 of the IIC 895 standard, is available.

• Identification: Oversheath colour → Green.

– Core identification for multicore cables (From 2 to 5): HD 308 S2.



• Packaging: Drum/cut to length.



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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.

Code*	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)
	mm ²	mm	mm	kg/km	Ω/km
84030201-50	2 X 1.5	0.7	12.6	270	13.3
84030202-50	2 X 2.5	0.7	13.6	316	7.98
84030200040	2 X 4	0.7	14.8	374	4.95
84030200060	2 X 6	0.7	16.7	537	3.30
84030200100	2 X 10	0.7	18.3	669	1.91
84030200160	2 X 16	0.7	20.5	845	1.21
84030200250	2 X 25	0.9	24.4	1256	0.780
84030200350	2 X 35	0.9	29.0	1958	0.554
84030311-50	3 G 1.5	0.7	13.2	290	13.3
84030301-50	3 X 1.5	0.7	13.2	290	13.3
84030312-50	3 G 2.5	0.7	14.4	340	7.98
84030302-50	3 X 2.5	0.7	14.4	340	7.98
84030310040	3 G 4	0.7	16.5	510	4.95
84030300040	3 X 4	0.7	16.5	510	4.95
84030310060	3 G 6	0.7	17.6	591	3.30
84030300060	3 X 6	0.7	17.6	591	3.30
84030310100	3 G 10	0.7	19.1	788	1.91
84030300100	3 X 10	0.7	19.1	788	1.91
84030300160	3 X 16	0.7	22.2	1131	1.21
84030300250	3 X 25	0.9	25.6	1521	0.780
84030300350	3 X 35	0.9	30.4	2295	0.554
84030300500	3 X 50	1.0	34.5	2984	0.386
84030411-50	4 G 1.5	0.7	13.8	337	13.3
84030401-50	4 X 1.5	0.7	13.8	337	13.3
84030412-50	4 G 2.5	0.7	15.9	498	7.98
84030402-50	4 X 2.5	0.7	15.9	498	7.98
84030400040	4 X 4	0.7	17.3	606	4.95
84030400060	4 X 6	0.7	18.6	720	3.30
84030400100	4 X 10	0.7	20.5	937	1.91
84030400160	4 X 16	0.7	23.8	1353	1.21
84030400250	4 X 25	0.9	27.7	1833	0.780
84030400350	4 X 35	0.9	33.0	2745	0.554
84030400500	4 X 50	1.0	38.3	3836	0.386
84030400700	4 X 70	1.1	42.6	4930	0.272
84030400950	4 X 95	1.1	46.4	6036	0.206
84030401200	4 X 120	1.2	52.8	7888	0.161
84030401500	4 X 150	1.4	58.6	9565	0.129
84030511-50	5 G 1.5	0.7	14.6	382	13.3
84030512-50	5 G 2.5	0.7	16.8	560	7.98
84030510040	5 G 4	0.7	18.5	692	4.95
84030510060	5 G 6	0.7	19.8	833	3.30
84030510100	5 G 10	0.7	22.7	1207	1.91
84030510160	5 G 16	0.7	25.6	1596	1.21
84030510250	5 G 25	0.9	30.1	2210	0.780
84030510350	5 G 35	0.9	36.6	3522	0.554
84030510500	5 G 50	1.0	41.6	4629	0.386
84030510700	5 G 70	1.1	46.4	5979	0.272
84030510950	5 G 95	1.1	51.9	7792	0.206
84030511200	5 G 120	1.2	57.8	9622	0.161

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