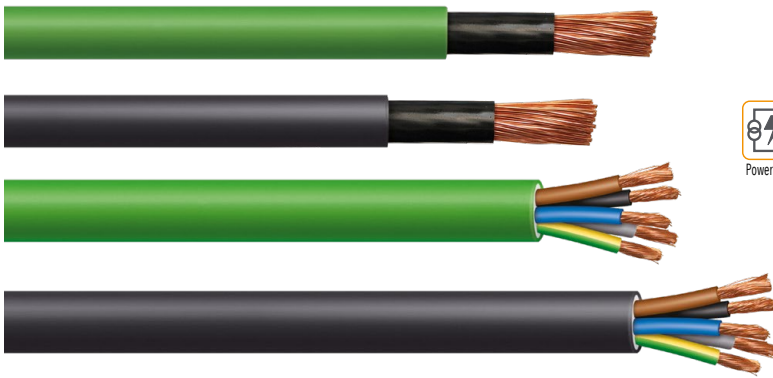


AFIRENAS X RZ1-K (AS) 0.6/1 kV

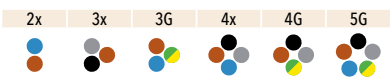
DoP: MC100RZ1K. MIGUÉLEZ ARTICLE GROUP 207



Max. conductor temperature	Cu class 5 flexible	Single-core or multicore cable	Rated voltage	Easy stripping	Cold weather resistance
Power cable	Public access premises	Fire and explosion hazard	Tunnels	High-rise buildings	Outdoor lighting
Buried in conduit in the ground	Buried directly in the ground	In wall embedded conduits	In ceiling voids or raised floors	On brackets or clamps	On cable ladders
On cable trays	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
Fire retardant, halogen-free and low gas and smoke emission with low opacity	IEC 60332-1-2	IEC 60332-3-24	IEC 60754-1	IEC 60754-2	IEC 61034-2
Low smoke opacity IEC 61034-2	Low production of flaming droplets EN 50399	Low acidity & conductivity of gases IEC 60754-2	Halogen-free IEC 60754-1		



- **Standards (construction/tests):** IEC 60502-1 and UNE 21123-4.
- **Technical designation:** RZ1-K (AS) 0.6/1 kV.
- **Construction:**
  - **Conductor:** Copper, class 5 (IEC 60228).
  - **Insulation:** Cross-linked polyethylene (XLPE). XLPE (IEC 60502-1) & XLPE type DIX 3 (UNE-HD 603-1).
    - Assembly of cores (multicore cables): Cores cabled helically.
    - Filler/Inner covering: Optional for multicore cables. Halogen free material, suitable for the operating temperature of the cable and compatible with the insulation and oversheath material.
  - **Oversheath:** Thermoplastic polyolefin (HFFR), type ST8 (IEC 60502-1).
- **Rated voltage (Uo/U):** 0.6/1 kV AC.
- **Max. conductor temperature. Normal operation / short-circuit (t≤5s):** 90 °C / 250 °C.
- **Range:** Single-core or multicore cable.  
Configurations: 1x(1.5...500) mm² / 2x(1.5...35) mm² / (3-4) x 0 G(1.5...120) mm² / 5G(1.5...95) 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 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 suitable as a power, command or control cable for fixed installations in tunnels, public access premises (hospitals, airports, schools...), places with fire or explosion hazard, high-rise buildings and whenever its special fire performance behaviour is required. It can also be used for electrical installations in ships according to IEC 60092-350/353/360.  
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: 4xD (D<25); 5xD(25≤D≤50); 6xD(D>50). 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 x S (N). S = cross-sectional area of the conductors (mm²).
    - If the traction force is applied on the oversheath: F = 5 x D² (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.
- **Identification:** Oversheath colour → Green (93) or black (92).
  - Core identification for multicore cables (From 2 to 5): HD 308 S2.



- **Packaging:** Drum/cut to length (03) and coils 100m (00).

\* 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](http://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 <sup>2</sup>	mm	mm	kg/km	Ω/km
8207010150	1 x 1.5	0.7	6.0	50	13.3
8207010250	1 x 2.5	0.7	6.4	59	7.98
82070100040	1 x 4	0.7	6.7	72	4.95
82070100060	1 x 6	0.7	7.6	102	3.30
82070100100	1 x 10	0.7	8.7	146	1.91
82070100160	1 x 16	0.7	9.7	205	1.21
82070100250	1 x 25	0.9	11.2	292	0.780
82070100350	1 x 35	0.9	12.3	287	0.554
82070100500	1 x 50	1.0	14.1	530	0.386
82070100700	1 x 70	1.1	15.9	720	0.272
82070100950	1 x 95	1.1	18.0	954	0.206
82070101200	1 x 120	1.2	19.7	1190	0.161
82070101500	1 x 150	1.4	22.0	1474	0.129
82070101850	1 x 185	1.6	24.3	1798	0.106
82070102400	1 x 240	1.7	27.0	2330	0.0801
82070103000	1 x 300	1.8	31.5	2900	0.0641
82070104000	1 x 400	2.0	35.0	3650	0.0486
82070105000	1 x 500	2.2	42.5	5010	0.0384
8207020150	2 x 1.5	0.7	9.5	128	13.3
8207020250	2 x 2.5	0.7	11.0	178	7.98
82070200040	2 x 4	0.7	12.0	228	4.95
82070200060	2 x 6	0.7	12.9	267	3.30
82070200100	2 x 10	0.7	15.5	420	1.91
82070200160	2 x 16	0.7	17.9	580	1.21
82070200250	2 x 25	0.9	20.6	861	0.780
8207031150	3 G 1.5	0.7	10.3	156	13.3
8207031250	3 G 2.5	0.7	11.3	197	7.98
82070310040	3 G 4	0.7	12.6	265	4.95
82070310060	3 G 6	0.7	13.9	341	3.30
82070310100	3 G 10	0.7	16.8	531	1.91
82070300160	3 x 16	0.7	18.4	710	1.21
82070300250	3 x 25	0.9	21.7	1018	0.780
82070300350	3 x 35	0.9	23.8	1350	0.554
8207041150	4 G 1.5	0.7	10.9	177	13.3
8207041250	4 G 2.5	0.7	12.1	229	7.98
82070410040	4 G 4	0.7	13.9	316	4.95
82070410060	4 G 6	0.7	15.4	422	3.30
82070410100	4 G 10	0.7	18.0	636	1.91
82070400160	4 x 16	0.7	20.7	888	1.21
82070400250	4 x 25	0.9	24.0	1275	0.780
82070400350	4 x 35	0.9	27.5	1728	0.554
82070400500	4 x 50	1.0	32.9	2418	0.386
82070400700	4 x 70	1.1	38.1	3329	0.272
82070400950	4 x 95	1.1	42.6	4344	0.206
82070401200	4 x 120	1.2	51.7	6008	0.161
8207051150	5 G 1.5	0.7	12.0	213	13.3
8207051250	5 G 2.5	0.7	13.4	280	7.98
82070510040	5 G 4	0.7	14.9	377	4.95
82070510060	5 G 6	0.7	16.9	513	3.30
82070510100	5 G 10	0.7	20.0	773	1.91
82070510160	5 G 16	0.7	22.7	1098	1.21
82070510250	5 G 25	0.9	27.0	1577	0.780
82070510350	5 G 35	0.9	30.2	2111	0.554
82070510500	5 G 50	1.0	35.8	2913	0.386
82070510700	5 G 70	1.1	39.1	4576	0.272
82070510950	5 G 95	1.1	44.2	5893	0.206

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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.