AFIRENAS X-B2 **RZ1-K (AS) 0,6/1 kV**

DoP : **MB21000RZ1K-01**. MIGUÉLEZ ARTICLE GROUP 223

90°C 250°C Maximum operating temperature (conductor) · mm² Copper, class 5 · Single-core or multicore cable · 0.6 / 1 kV Rated voltage · Easy stripping · Cold weather resistance

Power, command & control · Public Access Premises · Fire and explosion hazard · Tunnels · High-rise buildings · Outdoor lighting · BT LV networks · Outdoor application UNE 211605

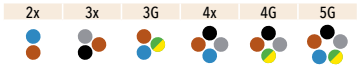
Buried in conduit in the ground · Buried directly in the ground · In wall embedded conduits · In ceiling voids or raised floors · On brackets or clamps · On cable ladders · On cable trays

B2ca s1a,d1,a1 Reacción al fuego (CPR) 1x · B2ca s1b,d1,a1 Reacción al fuego (CPR) 2x/3x/3G/4x/4G/5G · Low heat emission EN 50399 · Flame retardant IEC 60332-1-2 · Fire retardant IEC 60332-3-24 · Low smoke opacity EN 50399 · Low smoke opacity IEC 61034-2 · Low production of flaming droplets EN 50399 · Low acidity & conductivity of gases IEC 60754-2 · HCl < 0.5 % Halogen-free IEC 60754-1

AENOR · IEC · CESMEC · BUREAU VERITAS · L.V.D. · CE · RoHS COMPLIANT

CPR $B2_{ca}$-s1a,d1,a1 1x · CPR $B2_{ca}$-s1b,d1,a1 2x/3x/3G/4x/4G/5G · ZH 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

- **Standards (construction/tests)**: UNE 21123-4 and IEC 60502-1.
- **Technical designation**: RZ1-K (AS) 0.6/1 kV.
- **Construction**: Conductor: Copper, class 5 / Insulation: XLPE / Oversheath: Thermoplastic polyolefin (LSZH).
- **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-...-300) mm² / 2x(1.5-...-35) mm² / (3-4)x o G(1.5-...-120) mm² / 5G(1.5-...-120) mm².
- **Reaction to fire classification (CPR - EN 50575 & EN 13501-6)**: **$B2_{ca}$-s1a,d1,a1** (1x) / **$B2_{ca}$-s1b,d1,a1** (2x/3x/3G/4x/4G/5G).
- **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 and railway infrastructures, public access premises (hospitals, airports, schools...), places with fire or explosion hazard, high-rise buildings and whenever its special fire performance behaviour is required.
  Suitable for indoor and outdoor (protected from direct and continuous exposure to UV radiation) installations on supports in the air, in conduits or directly buried.
  – Temperature ranges:
    - Maximum continuous conductor operating temperature: +90 °C.
    - Maximum continuous conductor short-circuit temperature (t≤5s) : +250 °C.
    - Maximum ambient temperature: +70 °C (higher temperatures limits current-carrying capacities).
    - 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. Under normal conditions of care. 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 (in mm²).
  If the traction force is applied on the oversheath: F = 5 x D² (N). D = overall diameter of the cable (in 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). Black on request and MOQ.
  – Core identification for multicore cables (From 2 to 5): HD 308 S2.



- **Packaging**: Drum/cut to length (03).

Code*	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)
	mm²	mm	mm	kg/km	Ω/km
82230101-50	1 x 1,5	0,7	6,0	49	13,3
82230102-50	1 x 2,5	0,7	6,4	62	7,98
82230100040	1 x 4	0,7	7,0	80	4,95
82230100060	1 x 6	0,7	7,5	100	3,30
82230100100	1 x 10	0,7	8,5	147	1,91
82230100160	1 x 16	0,7	9,6	207	1,21
82230100250	1 x 25	0,9	11,2	300	0,780
82230100350	1 x 35	0,9	12,5	397	0,554
82230100500	1 x 50	1,0	14,2	546	0,386
82230100700	1 x 70	1,1	15,9	743	0,272
82230100950	1 x 95	1,1	17,6	957	0,206
82230101200	1 x 120	1,2	19,6	1209	0,161
82230101500	1 x 150	1,4	22,0	1503	0,129
82230101850	1 x 185	1,6	24,6	1827	0,106
82230102400	1 x 240	1,7	27,2	2388	0,0801
82230103000	1 x 300	1,8	30,1	2904	0,0641
82230201-50	2 x 1,5	0,7	10,6	152	13,3
82230202-50	2 x 2,5	0,7	11,6	190	7,98
82230200040	2 x 4	0,7	12,8	243	4,95
82230200060	2 x 6	0,7	13,8	299	3,30
82230200100	2 x 10	0,7	15,6	420	1,91
82230200160	2 x 16	0,7	17,8	582	1,21
82230200250	2 x 25	0,9	21,4	863	0,780
82230200350	2 x 35	0,9	24,0	1129	0,554
82230311-50	3 G 1,5	0,7	11,3	177	13,3
82230312-50	3 G 2,5	0,7	12,3	222	7,98
82230310040	3 G 4	0,7	13,6	288	4,95
82230310060	3 G 6	0,7	14,7	361	3,30
82230310100	3 G 10	0,7	16,6	517	1,91
82230300160	3 x 16	0,7	19,2	736	1,21
82230300250	3 x 25	0,9	22,9	1087	0,780
82230300350	3 x 35	0,9	25,9	1445	0,554
82230300500	3 x 50	1,0	29,8	1993	0,386
82230300700	3 x 70	1,1	33,2	2665	0,272
82230300950	3 x 95	1,1	37,0	3430	0,206
82230300950	3 x 120	1,2	41,5	4355	0,161
82230411-50	4 G 1,5	0,7	12,2	210	13,3
82230412-50	4 G 2,5	0,7	13,4	269	7,98
82230400040	4 x 4	0,7	14,9	353	4,95
82230400060	4 x 6	0,7	16,1	446	3,30
82230400100	4 x 10	0,7	18,2	644	1,91
82230400160	4 x 16	0,7	21,1	923	1,21
82230400250	4 x 25	0,9	25,2	1368	0,780
82230400350	4 x 35	0,9	28,5	1823	0,554
82230400500	4 x 50	1,0	32,8	2520	0,386
82230400700	4 x 70	1,1	37,1	3425	0,272
82230400950	4 x 95	1,1	41,4	4420	0,206
82230401200	4 x 120	1,2	49,0	5850	0,161
82230401500	4 x 150	1,4	53,3	7134	0,129
82230511-50	5 G 1,5	0,7	13,8	275	13,3
82230512-50	5 G 2,5	0,7	15,2	353	7,98
82230510040	5 G 4	0,7	16,8	460	4,95
82230510060	5 G 6	0,7	18,2	582	3,30
82230510100	5 G 10	0,7	20,3	823	1,91
82230510160	5 G 16	0,7	23,3	1169	1,21
82230510250	5 G 25	0,9	27,8	1721	0,780
82230510350	5 G 35	0,9	31,3	2280	0,554
82230510500	5 G 50	1,0	36,3	3194	0,386
82230510700	5 G 70	1,1	41,1	4453	0,272
82230510950	5 G 95	1,1	45,7	5729	0,206
82230511200	5 G 120	1,2	52,1	7176	0,161

* 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.miguelez.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.