



DESCRIPTION

- Technical designation RZ1MZ1-K(AS) for multipolar cables and RZ1MAZ1-K(AS) for unipolar cables.
- Construction Standard: IEC 60502-1, UNE 21123-4
- Low Voltage Directive (LVD) compliant: 2014/35/UE
- Construction Products Regulation (CPR) - (EU) Nº 305/2011: **Reaction to fire Cca-s1b, d1, a1.**
- DoP Number: **C016-ENG-RZ1MZ1KMICA.**
- RoHS compliant.
- Suitable for Industrial use / Potentially explosion hazard locations. (ATEX area).
- **Maximum fire resistant PH120.**

HFFR and armour cables **RZ1MZ1-K(AS+)** are suitable for non-autonomous security service circuits or with centralized autonomous sources (alarm circuits, emergency lighting, fire systems, acoustic signaling, etc.). Besides are highly recommended in hazardous areas with explosive gas atmospheres (ATEX) and where the cable is subject to risk of mechanical aggression, where it is necessary to maintain the operation of the circuits, even if they are affected by fire.

TECHNICAL CHARACTERISTICS

Conductor	Electrolytic copper, class 5 (flexible), according EN 60228 and IEC 60228.
Insulation	Mica tape + cross-linked Polyethylene (XLPE), type DIX 3 according UNE 21123, UNE HD 603 and XLPE according IEC 60502.
Inner sheath	Thermoplastic polyolefin sheath DMZ-E type according to UNE 21123 and ST8 according to IEC 60502-1.
Armour	Crown galvanized steel wire (M – multipolar) or aluminum wire (MA – unipolar cables) according to IEC 60502-1 and UNE 21123-4
Outer sheath	Thermoplastic polyolefin sheath DMZ-E type according to UNE 21123 and ST8 according to IEC 60502-1
Nominal Voltage	0,6/1 kV C.A
Voltage Test	3.500 V C.A.
Maximum conductor temperatures	Normal operation 90°C Short circuit (5sec) 250°C

OTHER CHARACTERISTICS

- Non-flame propagation according to EN 60332-1-2, IEC 60332-1-2.
- Non-fire propagation according to EN 60332-3-24, IEC 60332-3-24.
- Low halogen content according to EN 60754-2, EN 60754-1, IEC 60754-2, IEC 60754-1.
- Low corrosive gas emission according to EN 60754-2, IEC 60754-2.
- Low smoke emission according to EN 61034-2, IEC 61034-2.
- **Fire reaction (CPR) Cca-s1b, d1, a1.**
- **Fire resistance PH120 (842°C, 120 minutes)** according UNE-EN 50200 and UNE-EN 50362 (for cables with a diameter greater than 50 mm).
- UV resistance (1 cycle) according to UNE 211605.
- Water absorption resistance.
- High cold resistance.
- Impact and rodent resistance.



AVAILABLE ON REQUEST

- Hydrocarbons and oil resistance according to UIC-895 OR.

SECTION

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
2x1.5	13.3	15,24	0,42	Cca-s1b-d1-a1
3x1.5	13.3	15,78	0,45	Cca-s1b-d1-a1
4x1.5	13.3	17,62	0,615	Cca-s1b-d1-a1
5x1.5	13.3	18,67	0,68	Cca-s1b-d1-a1
7x1.5	13.3	19,86	0,76	Cca-s1b-d1-a1
10x1.5	13.3	24,18	1,10	Cca-s1b-d1-a1
12x1.5	13.3	24,72	1,17	Cca-s1b-d1-a1
16x1,5	13.3	26,71	1,35	Cca-s1b-d1-a1
20x1,5	13.3	29,12	1,54	Cca-s1b-d1-a1
24x1,5	13.3	31,82	1,77	Cca-s1b-d1-a1
2x2.5	7.98	16,21	0,475	Cca-s1b-d1-a1
3x2.5	7.98	17,76	0,64	Cca-s1b-d1-a1
4x2.5	7.98	18,83	0,71	Cca-s1b-d1-a1
5x2.5	7.98	20,02	0,80	Cca-s1b-d1-a1
7x2.5	7.98	21,36	0,90	Cca-s1b-d1-a1
10x2.5	7.98	25,58	1,21	Cca-s1b-d1-a1
12x2.5	7.98	26,79	1,38	Cca-s1b-d1-a1
16x2.5	7.98	29,26	1,64	Cca-s1b-d1-a1
20x2,5	7.98	31,98	1,91	Cca-s1b-d1-a1
24x2.5	7.98	35,82	2,42	Cca-s1b-d1-a1

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
2x4	4.95	17,42	0,63	Cca-s1b-d1-a1
3x4	4.95	18,06	0,69	Cca-s1b-d1-a1
4x4	4.95	19,17	0,76	Cca-s1b-d1-a1
5x4	4.95	20,40	0,87	Cca-s1b-d1-a1
2x6	3.3	18,62	0,72	Cca-s1b-d1-a1
3x6	3.3	19,35	0,81	Cca-s1b-d1-a1
4x6	3.3	20,61	0,91	Cca-s1b-d1-a1
5x6	3.3	21,6	1,1	Cca-s1b-d1-a1
2x10	1.91	20,42	0,88	Cca-s1b-d1-a1
3x10	1.91	21,28	1,01	Cca-s1b-d1-a1
4x10	1.91	23,48	1,29	Cca-s1b-d1-a1
5x10	1.91	25,15	1,51	Cca-s1b-d1-a1
2x16	1.21	23,32	1,23	Cca-s1b-d1-a1
3x16	1.21	24,35	1,41	Cca-s1b-d1-a1
4x16	1,21	26,14	1,62	Cca-s1b-d1-a1
5x16	1.21	28,12	1,93	Cca-s1b-d1-a1
2x25	0.78	26,92	1,63	Cca-s1b-d1-a1
3x25	0.78	28,22	1,88	Cca-s1b-d1-a1
4x25	0.78	30,68	2,22	Cca-s1b-d1-a1
5x25	0.78	33,38	2,61	Cca-s1b-d1-a1
2x35	0.554	29,32	1,96	Cca-s1b-d1-a1
3x35	0.554	30,78	2,29	Cca-s1b-d1-a1
4x35	0.554	33,52	2,75	Cca-s1b-d1-a1
5x35	0.554	37,35	3,55	Cca-s1b-d1-a1
2x50	0.386	32,72	2,46	Cca-s1b-d1-a1
3x50	0.386	34,42	2,93	Cca-s1b-d1-a1
4x50	0.386	38,57	3,82	Cca-s1b-d1-a1
5x50	0.386	42,07	4,62	Cca-s1b-d1-a1
3x70	0.272	39,71	4,11	Cca-s1b-d1-a1
4x70	0.272	43,36	4,94	Cca-s1b-d1-a1
5x70	0.272	49,01	6,47	Cca-s1b-d1-a1
3x95	0.206	42,92	4,95	Cca-s1b-d1-a1
4x95	0.206	48,53	6,47	Cca-s1b-d1-a1
3x120	0.161	49,86	6,54	Cca-s1b-d1-a1
3x150	0.129	55,65	7,99	Cca-s1b-d1-a1

**The values of the outer diameters are approximate, always within production tolerance. For more information, please contact us.*

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