



DESCRIPTION: XLPE / LSHF / SWA / LSHF

- Technical designation **RZ1MAZ1-K(AS)** flexible conductor.
- Construction Standard: IEC 60502-1, UNE 21123-4
- Low Voltage Directive (LVD) compliant: 2014/35/UE
- Construction Products Regulation (CPR) - (EU) N° 305/2011: **Reaction to fire Cca-s1b, d1, a1.**
- DoP Number: **C003-ENG-RZ1MZ1K.**
- RoHS compliant.
- Suitable for Industrial use / **Potentially explosion hazard locations (ATEX area).**

HFFR and armour cables **RZ1MZ1-K(AS)** are highly recommended in hazardous areas with explosive gas atmospheres (ATEX) or with risk of fire (Petrochemical plants, gas stations, flammable product stores, etc.) and in general, where the cable is subject to risk of mechanical aggression.

TECHNICAL CHARACTERISTICS

Conductor	Flexible electrolytic copper conductor (class V) according to UNE-EN 60288
Insulation	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 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.**
- 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.

SECTIONS

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
1x10	1,91	14,6	14	Cca-s1b-d1-a1
1x16	1,21	15,7	15,1	Cca-s1b-d1-a1
1x25	0,78	17,5	17,8	Cca-s1b-d1-a1
1x35	0,554	18,6	18,9	Cca-s1b-d1-a1
1x50	0,386	20,2	20,5	Cca-s1b-d1-a1
1x70	0,272	22,2	23,1	Cca-s1b-d1-a1
1x95	0,206	23,6	24,5	Cca-s1b-d1-a1
1x120	0,161	25,8	26,8	Cca-s1b-d1-a1
1x150	0,129	28,4	29,6	Cca-s1b-d1-a1
1x185	0,106	30,8	32,2	Cca-s1b-d1-a1
1x240	0,0801	33,3	35,5	Cca-s1b-d1-a1
1x300	0,0641	38,0	38,4	Cca-s1b-d1-a1
1x400	0,0486	42,1	42,1	Cca-s1b-d1-a1
2x1.5	13.3	13.60	0.349	Cca-s1b-d1-a1
3x1.5	13.3	14	0.374	Cca-s1b-d1-a1
4x1.5	13.3	14.80	0.419	Cca-s1b-d1-a1
5x1.5	13.3	15.60	0.463	Cca-s1b-d1-a1
7x1.5	13.3	16.50	0.524	Cca-s1b-d1-a1
10x1.5	13.3	19.40	0.674	Cca-s1b-d1-a1
12x1.5	13.3	19.80	0.725	Cca-s1b-d1-a1
2x2.5	7.98	14.60	0.389	Cca-s1b-d1-a1

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
3x2.5	7.98	15.10	0.448	Cca-s1b-d1-a1
4x2.5	7.98	16.00	0.505	Cca-s1b-d1-a1
5x2.5	7.98	17.00	0.570	Cca-s1b-d1-a1
7x2.5	7.98	18.00	0.651	Cca-s1b-d1-a1
10x2.5	7.98	21.40	0.853	Cca-s1b-d1-a1
12x2.5	7.98	21.90	0.92	Cca-s1b-d1-a1
14x2.5	7.98	22.80	1.006	Cca-s1b-d1-a1
16x2.5	7.98	23.80	1.100	Cca-s1b-d1-a1
20x2.5	7.98	24.80	1.210	Cca-s1b-d1-a1
24x2.5	7.98	28.40	1.480	Cca-s1b-d1-a1
2x4	4.95	15.60	0.474	Cca-s1b-d1-a1
3x4	4.95	16.20	0.528	Cca-s1b-d1-a1
4x4	4.95	17.20	0.599	Cca-s1b-d1-a1
5x4	4.95	18.30	0.686	Cca-s1b-d1-a1
2x6	3.3	16.80	0.565	Cca-s1b-d1-a1
3x6	3.3	17.50	0.638	Cca-s1b-d1-a1
4x6	3.3	18.60	0.734	Cca-s1b-d1-a1
5x6	3.3	20.00	0.849	Cca-s1b-d1-a1
2x10	1.91	18.40	0.692	Cca-s1b-d1-a1
3x10	1.91	19.40	0.83	Cca-s1b-d1-a1
4x10	1.91	20.80	0.974	Cca-s1b-d1-a1
5x10	1.91	24.20	1.456	Cca-s1b-d1-a1
2x16	1.21	22.60	1.177	Cca-s1b-d1-a1
3x16	1.21	23.60	1.339	Cca-s1b-d1-a1
4x16	1.21	25.30	1.561	Cca-s1b-d1-a1
5x16	1.21	27.20	1.890	Cca-s1b-d1-a1
2x25	0.78	25.80	1.579	Cca-s1b-d1-a1
3x25	0.78	27.40	1.859	Cca-s1b-d1-a1
4x25	0.78	29.60	2.203	Cca-s1b-d1-a1
2x35	0.554	28.40	1.910	Cca-s1b-d1-a1
3x35	0.554	30.00	2.268	Cca-s1b-d1-a1
4x35	0.554	32.70	2.734	Cca-s1b-d1-a1
2x50	0.386	31.80	2.427	Cca-s1b-d1-a1
3x50	0.386	33.70	2.941	Cca-s1b-d1-a1
4x50	0.386	37.50	3.823	Cca-s1b-d1-a1
5x50	0.386	40,9	4,460	Cca-s1b-d1-a1
3x70	0.272	39.00	4.082	Cca-s1b-d1-a1
4x70	0.272	42,40	5.028	Cca-s1b-d1-a1
5x70	0.272	46,20	5,840	Cca-s1b-d1-a1
3x95	0.206	42.60	5.003	Cca-s1b-d1-a1
4x95	0.206	45,90	6.125	Cca-s1b-d1-a1
5x95	0.206	51,60	7,610	Cca-s1b-d1-a1

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
3x120	0.161	47,60	6.197	Cca-s1b-d1-a1
4x120	0.161	53,60	8.14	Cca-s1b-d1-a1
5x120	0.161	58,40	9,456	Cca-s1b-d1-a1
3x150	0.129	54.30	8.075	Cca-s1b-d1-a1
4x150	0.129	58,90	9.871	Cca-s1b-d1-a1
3x185	0.106	60.40	9.594	Cca-s1b-d1-a1
4x185	0.106	66,30	11.88	Cca-s1b-d1-a1
3x240	0.0801	65,60	11,86	Cca-s1b-d1-a1
4x240	0,0801	72,40	14,07	Cca-s1b-d1-a1
3x300	0,0641	71,80	13,81	Cca-s1b-d1-a1

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

**Unipolar cables with aluminum wire armour.*

HEADQUARTER AGONCILLO (LA RIOJA)
Tel: +34 941 486 125

DELEGATION MADRID
Tel: +34 629 673 359