DESCRIPCTION: Mica/XLPE/COLLECTIVE SCREEN/HFFR/STEEL WIRES/HFFR

- Technical designation **ROZ1MZ1 (AS+) rigid copper conductor class 2.**
- Technical designation **ROZ1MZ1-K(AS+) flexible copper conductor class 5.**
- Construction Standard: UNE 211025, EN 50288-7.
- Low Voltage Directive (LVD) compliant: 2014/35/UE
- Construction Products Regulation (CPR) - (EU) Nº 305/2011: **Reaction to fire Cca-s1b, d1, a1**
- ***Fire resistance up to PH120***
- DoP Number**: C007-ENG- ROZ1MZ1K(AS+)**
- RoHS compliant.
- Suitable for Industrial use / **Potentially explosion hazard locations (ATEX area).**

The **ROZ1MZ1-K (AS+**) cables are those indicated for the connection of measuring, control and signalling instruments. They have a collective screen to avoid interference and reinforcement of galvanized steel wires that confers high mechanical performance. They are used where it is required to guarantee the supply of halogen-free, non-propagating and fire-resistant cables, the supply to emergency equipment such as signalling, smoke extractors, acoustic alarms, water pumps, etc.

TECHNICAL CHARATERISTICS

Conductor	Flexible or rigid electrolytic copper conductor (class V or II) according to UNE-EN 60288 and IEC 60288
Insulation	Mica tape + Cross-linked polyethylene (XLPE) according UNE EN 50288-7
Screen (collective)	Polyester tape + tinned copper drain wire + aluminum/mylar tape with 100% coverage
Internal Outer sheath	Halogen free compound according UNE EN 50288-7
Armour	Galvanized Steel wire.
Outer sheath	Halogen free compound according UNE EN 50288-7
Nominal Voltage	300/500 V
Nominal test	2.000 V.ac
Maximum conductor temperatures	Normal operation 90°C Short circuit Short circuit (5sec) 250°C

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OTHER CHARATERISTICS

- Non-flame propagation according to UNE-EN 60332-1-2, EN 60332-1-2 e IEC 60332-1-2.
- Non-fire propagation according to UNE-EN 60332-3, EN 60332-3 e IEC 60332-3.
- Low halogen content according to UNE-EN 60754, EN 50267 e IEC 60754.
- Low corrosive gas emission according to UNE-EN 60754-2 e IEC 60754-2.
- Low smoke emission according to UNE-EN 61034-2 e IEC 61034-2.
- ***Fire reaction (CPR) Cca-s1b, d1, a1.***
- ***Fire resistance up to 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.
- Fire resistance.
- Electromagnetic protection.

AVAILABLE ON REQUEST

- Hydrocarbons and oil resistance according to UIC-895 OR.
- UV resistance (> 5 cycles) according to UNE 211605.
- UV resistance according to UNE-EN 50289-4-17:2016.
- Rated voltage 450/750V.
- ***Fire reaction (CPR) Cca-s1b, d1, a1.***

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SECTIONS

Section	Resistance at 20 °C (Ohm/km)	Conductor Class	External diameter (mm)	Weight (kg/m)
2X2X0,5	36	2	14,0	0,348
6X2X0,5	36	2	17,7	0,552
8x2x0,5	36	2	18,8	0,595
12X2X0,5	36	2	23,9	0,971
18X2X0,5	36	2	27,5	1,241
24X2X0,5	36	2	30,8	1,483
6x2x1	18,1	2	20,7	0,741
12x2x1	18,1	2	27,3	1,272
24x2x1	18,1	2	36,6	2,259
2X1,5	12,1	2	12,2	0,303
3X1,5	12,1	2	13,0	0,350
4X1,5	12,1	2	14,0	0,397
2X2X1,5	12,1	2	16,3	0,474
6X2X1,5	12,1	2	22,8	0,983
12X2X1,5	12,1	2	29,2	1,499
24X2X1,5	12,1	2	38,9	2,641
2X2,5	12,1	2	13,9	0,387
3X2,5	12,1	2	14,4	0,426

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

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

DELEGATION MADRID
Tel: +34 629 673 359

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