DESCRIPCTION: MICA/XLPE/INDIVIDUAL & 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**: C014-ENG- RHOZ1MZ1K(AS+)**
- RoHS compliant.
- Suitable for Industrial use / **Potentially explosion hazard locations (ATEX area).**

The **RHOZ1MZ1-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 (individual/overall)	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	Flexible or rigid electrolytic copper conductor (class V or II) according to UNE-EN 60288 and IEC 60288
Nominal Voltage	Mica tape + Cross-linked polyethylene (XLPE) according UNE EN 50288-7
Nominal test	Polyester tape + tinned copper drain wire + aluminum/mylar tape with 100% coverage
Maximum conductor temperatures	Halogen free compound according UNE EN 50288-7 Short circuit (5sec) 250°C

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.***

SECTIONS

RHOZ1MZ1-K(AS+) 300/500V					
Section	**Resistance at 20 °C (Ohm/km)**	**Conductor Class**	**External diameter (mm)**	**Weight (kg/m)**	**Section**
2x2x1,5	13,3	5	19,3	0,63	Cca-s1b-d1-a1
3x2x1,5	13,3	5	20,3	0,67	Cca-s1b-d1-a1
5x2x1,5	13,3	5	24,2	1,01	Cca-s1b-d1-a1
6x2x1,5	13,3	5	26,5	1,19	Cca-s1b-d1-a1
10x2x1,5	13,3	5	31,7	1,61	Cca-s1b-d1-a1
12x2x1,5	13,3	5	35,7	2,06	Cca-s1b-d1-a1
20x2x1,5	13,3	5	43,7	2,88	Cca-s1b-d1-a1
24x2x1,5	13,3	5	47,9	3,62	Cca-s1b-d1-a1
6x3x1,5	13,3	5	29,9	1,48	Cca-s1b-d1-a1
10x3x1,5	13,3	5	36,4	2,19	Cca-s1b-d1-a1
12x3x1,5	13,3	5	39,6	2,51	Cca-s1b-d1-a1
20x3x1,5	13,3	5	49,5	3,91	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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