

	RHOZ1MZ1(AS) RHOZ1MZ1-K(AS) Cables I&C 300/500V	CPR Cables
		REV 05 – April 2023
		www.tecnicasdelcable.com



DESCRIPTION

- Technical designation **RHOZ1MZ1(AS)** rigid copper conductor class 2.
- Technical designation **RHOZ1MZ1-K(AS)** flexible copper conductor class 5.
- Construction Standard: UNE -EN-50288-7, IEC-60288.
- Low Voltage Directive (LVD) compliant: 2014/35/UE
- Construction Products Regulation (CPR) - (EU) N° 305/2011: **Reaction to fire Cca-s1b, d1, a1.**
- RoHS compliant.
- Suitable for Industrial use / **Potentially explosion hazard locations (ATEX area).**

ROZ1MZ1(AS) is an I&C cable suitable for areas with a high risk of electromagnetic interference and when there is a need for cables that are both halogen-free and possess flame-retardant and fire-resistant properties. These cables are indicated for industrial installations with a risk of mechanical aggression. The installation of those cables is highly recommended in service stations (gas stations), petrochemical plants, flammable products warehouses, etc. Likewise, it can be used in installations as production plants and in general.

TECHNICAL CHARACTERISTICS

Conductor	Rigid electrolytic copper conductor (Class II) or flexible (class V) according to UNE-EN 60288
Insulation	Cross-linked Polyethylene (XLPE), according UNE EN 50288-7
Screen (Individual / overall)	Polyester tape + tinned copper drain wire + aluminum/mylar tape with 100% coverage
Inner sheath	Thermoplastic polyolefin according EN 50288-7
Armour	Crown galvanized steel wire
Sheath	Thermoplastic polyolefin according EN 50288-7
Nominal voltage	300/500 V
Test voltage	2.000 V.ac
Maximum conductor temperatures	Normal operation 90°C Short circuit Short circuit (5sec) 250°C

 CONDUCTORES ELÉCTRICOS ESPECIALES	RHOZ1MZ1(AS) RHOZ1MZ1-K(AS) Cables I&C 300/500V	CPR Cables
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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.
- Electromagnetic protection.



AVAILABLE ON REQUEST

- Hydrocarbons and oil resistance according to UIC-895 OR.
- UV resistance (> 5cycles) according to UNE 211605.
- UV resistance according to UNE-EN 50289-4-17:2016.
- Flexible / rigid conductor according to UNE EN 60228.
- Rated voltage 450/750V.

SECTIONS

RHOZ1MZ1(AS) rigid copper 300/500V					
Section	Resistance at 20 °C (Ohm/km)	Conductor Class	External diameter (mm)	Weight (kg/m)	CPR
2X2X0,5	36	2	14,4	0,34	Cca-s1b-d1-a1
6X2X0,5	36	2	20,0	0,72	Cca-s1b-d1-a1
12X3X0,5	36	2	24,8	1,07	Cca-s1b-d1-a1
6x2x1	18,1	2	20,3	0,75	Cca-s1b-d1-a1
12x2x1	18,1	2	25,6	1,15	Cca-s1b-d1-a1
16x2x1	18,1	2	28,4	1,38	Cca-s1b-d1-a1
24x2x1	18,1	2	33,6	1,88	Cca-s1b-d1-a1
2X2X1,5	12,1	2	16,4	0,48	Cca-s1b-d1-a1
6X3X1,5	12,1	2	23,7	1,04	Cca-s1b-d1-a1
12X3X1,5	12,1	2	30,0	1,65	Cca-s1b-d1-a1

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RHOZ1MZ1(AS) rigid copper 450/750V					
Sección	Resistencia a 20 °C (Ohm/km)	Clase del conductor de cobre	Diámetro exterior nominal (mm)	Peso (kg/m)	Clasificación CPR
2X2X0,5	36	2	13,77	0,37	Cca-s1b-d1-a1
6X3X0,5	36	2	20,24	0,75	Cca-s1b-d1-a1
8X3X0,5	36	2	21,95	0,98	Cca-s1b-d1-a1
2X2X1,5	12,1	2	16,21	0,51	Cca-s1b-d1-a1
6X3X1,5	12,1	2	24,94	1,26	Cca-s1b-d1-a1
8X3X1,5	12,1	2	26,45	1,44	Cca-s1b-d1-a1

RHOZ1MZ1(AS) flexible copper 300/500V					
Section	Resistance at 20 °C (Ohm/km)	Conductor Class	External diameter (mm)	Weight (kg/m)	CPR
2X2X1,5	13,3	5	16,2	0,485	Cca-s1b-d1-a1
3X2X1,5	13,3	5	16,9	0,52	Cca-s1b-d1-a1
4X2X1,5	13,3	5	18,1	0,62	Cca-s1b-d1-a1
5X2X1,5	13,3	5	19,4	0,75	Cca-s1b-d1-a1
6X2X1,5	13,3	5	22,2	0,97	Cca-s1b-d1-a1
10X2X1,5	13,3	5	26,3	1,31	Cca-s1b-d1-a1
12X2X1,5	13,3	5	29	1,53	Cca-s1b-d1-a1
20X2X1,5	13,3	5	36	2,89	Cca-s1b-d1-a1
24X2X1,5	13,3	5	38,5	3,62	Cca-s1b-d1-a1
2X3X1,5	13,3	5	17,2	0,55	Cca-s1b-d1-a1
6X3X1,5	13,3	5	25	1,21	Cca-s1b-d1-a1
10X3X1,5	13,3	5	29,5	1,63	Cca-s1b-d1-a1
12X3X1,5	13,3	5	32,7	2,06	Cca-s1b-d1-a1
20X3X1,5	13,3	5	39,9	2,93	Cca-s1b-d1-a1

ROZ1MZ1-K(AS) flexible copper 450/750V					
Section	Resistance at 20 °C (Ohm/km)	Conductor Class	External diameter (mm)	Weight (kg/m)	CPR
6X2X1,5	13,3	5	22,2	0,97	Cca-s1b-d1-a1
12X2X1,5	13,3	5	28,9	1,56	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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