

DESCRIPTION: XLPE/HFFR/COPPER WIRES SCREEN/HFFR/STEEL WIRES/HFFR

- 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: **C011-ENG-RZ1KZ1MZ1K**
- RoHS compliant.
- Suitable for Industrial use / **Potentially explosion hazard locations (ATEX area).**

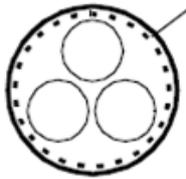
HFFR, screened and armoured cables **RZ1KZ1MZ1-K(AS)**, are highly recommended for interconnection between frequency inverters and motors. Can be installed in hazardous areas with explosive gas atmospheres (ATEX) or with risk of fire and in general, where the cable is subject to risk of mechanical aggression..

TECHNICAL CHARACTERISTICS

Conductor	Rigid electrolytic copper conductor (Class II) or flexible (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.
1º Inner sheath	Thermoplastic polyolefin sheath DMZ-E type according to UNE 21123 and ST8 according to IEC 60502-1
Screen	Outer conductor of copper wires and contrahelical copper wires.
2º 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.



Copper concentric conductor that makes the protection function as well reduces the electromagnetic emission and helps the return of high frequency currents.

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
2X2,5/2,5	7,98	18,9	0,72	Cca-s1b-d1-a1
2X35/16	0,554	32,6	2,34	Cca-s1b-d1-a1
3x2,5/2,5	7,98	19,4	0,76	Cca-s1b-d1-a1
3x4/4	4,95	20,8	0,88	Cca-s1b-d1-a1
3x6/6	3,3	22,1	1,02	Cca-s1b-d1-a1
3x10/10	1,91	25,4	1,43	Cca-s1b-d1-a1
3x16/16	1,21	27,8	1,78	Cca-s1b-d1-a1
3x25/16	0,78	32,1	2,31	Cca-s1b-d1-a1
3x35/16	0,554	35,4	2,98	Cca-s1b-d1-a1
3x50/25	0,386	39,2	3,75	Cca-s1b-d1-a1
3x70/35	0,272	43,9	4,84	Cca-s1b-d1-a1
3x95/50	0,206	49,3	6,35	Cca-s1b-d1-a1
3x120/70	0,161	56,1	7,88	Cca-s1b-d1-a1
3X150/70	0,129	62,4	9,47	Cca-s1b-d1-a1

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
3X185/95	0,106	68,2	11,28	Cca-s1b-d1-a1
3X240/120	0,0801	73,5	13,66	Cca-s1b-d1-a1
12X2,5/4	7,98	27,3	1,48	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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