



## DESCRIPTION

- **RZ1C3Z1-K(AS)** according to **ET071 black outer sheath.**
- **ROZ1-K(AS)** according to **INS 56.35.01 blue outer sheath.**
- 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: **C002-ENG-RZ1C3Z1K-ROZ1K**
- RoHS compliant.

HFFR screened cables **RZC3Z1-K(AS) – ROZ1-K(AS)** are highly recommended for general installations of low voltage circuits (power, control, lightning, etc.) in electrical substations where, low fumes and corrosive gas emission is required in the event of fire. The corrugated copper screen protects the cable against parasitic currents from possible electromagnetic disturbances giving to the cable greater flexibility.

## TECHNICAL CHARACTERISTICS

Conductor	Flexible electrolytic copper conductor (Class V) according to UNE-EN 60288 and IEC 60228
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
Screen	Corrugated copper strip
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.
- Suitable for low voltage circuits of electrical substations.

## SECTIONS

<b>RZ1C3Z1-K(AS) cables, black outer sheath / ET071</b>				
<b>Section (mm<sup>2</sup>)</b>	<b>Resistance at 20 °C (Ohm/km)</b>	<b>Nominal outer diameter (mm)</b>	<b>Weight (kg/m)</b>	<b>CPR</b>
1x70	0,272	21,1	0,934	Cca-s1b-d1-a1
1x95	0,206	22,4	1,148	Cca-s1b-d1-a1
1x120	0,161	24,7	1,448	Cca-s1b-d1-a1
1x150	0,129	27,3	1,771	Cca-s1b-d1-a1
1x185	0,106	29,9	2,079	Cca-s1b-d1-a1
1x240	0,0801	32,4	2,634	Cca-s1b-d1-a1
1x300	0,0641	35,7	3,280	Cca-s1b-d1-a1
2x2,5	7,98	15	0,291	Cca-s1b-d1-a1
2x4	4,95	16	0,340	Cca-s1b-d1-a1
2x6	3,3	17,2	0,401	Cca-s1b-d1-a1
2x10	1,91	19	0,540	Cca-s1b-d1-a1
2x16	1.21	21,2	0,704	Cca-s1b-d1-a1
2x25	0.78	24,8	1,042	Cca-s1b-d1-a1
2x35	0,554	27	1,276	Cca-s1b-d1-a1
2x50	0,386	30,4	1,683	Cca-s1b-d1-a1
4x1	14,7	14,7	0,265	Cca-s1b-d1-a1
4x2.5	7.98	16,4	0,362	Cca-s1b-d1-a1
4x4	4,95	17,6	0,439	Cca-s1b-d1-a1
4x6	3,3	19,1	0,541	Cca-s1b-d1-a1
4x10	1,91	21,2	0,754	Cca-s1b-d1-a1
4x16	1.21	23,9	1,017	Cca-s1b-d1-a1
4x25	0,78	28,4	1,529	Cca-s1b-d1-a1
4x35	0,554	31,2	1,932	Cca-s1b-d1-a1
4x50	0,386	35,7	2,653	Cca-s1b-d1-a1
6x6	3,3	21,7	0,719	Cca-s1b-d1-a1

**RZ1C3Z1-K(AS) cables, black outer sheath / ET071**

Section (mm <sup>2</sup> )	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
7x1	19,5	16,3	0,338	Cca-s1b-d1-a1
7x2,5	7,98	18,4	0,478	Cca-s1b-d1-a1
7x4	4,95	19,9	0,603	Cca-s1b-d1-a1
10x1	19,5	19	0,425	Cca-s1b-d1-a1
10x2,5	7,98	21,8	0,624	Cca-s1b-d1-a1
10x6	3,3	26,2	1,077	Cca-s1b-d1-a1
10x10	1,91	30	1,513	Cca-s1b-d1-a1
10x16	1,21	35,2	2,197	Cca-s1b-d1-a1
14x1	19,5	20,1	0,500	Cca-s1b-d1-a1
14x2,5	7,98	23,2	0,760	Cca-s1b-d1-a1
19x1	19,5	21,7	0,589	Cca-s1b-d1-a1
19x2,5	7,98	25,2	0,925	Cca-s1b-d1-a1
30x1	19,5	25,5	0,848	Cca-s1b-d1-a1

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

**ROZ1-K(AS) cables, blue outer sheath / INS 56.35.01**

Section (mm <sup>2</sup> )	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
4X2,5	7,98	16,4	0,362	Cca-s1b-d1-a1
8X2,5	7,98	19,5	0,521	Cca-s1b-d1-a1
19X2,5	7,98	25,2	0,925	Cca-s1b-d1-a1
2X6	3.3	17,2	0,401	Cca-s1b-d1-a1
4X6	3.3	19,1	0,541	Cca-s1b-d1-a1
2X16	1.21	21,2	0,704	Cca-s1b-d1-a1
4X16	1.21	23,9	1,017	Cca-s1b-d1-a1
2X25	0.78	24,8	1,042	Cca-s1b-d1-a1

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