



DESCRIPTION

- 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: **CO01-ENG-RZ1K**
- RoHS compliant.

The **RZ1-K (AS)** halogen free cables are suitable for transport, distribution and permanent installations protected or unprotected. In case of fire, these cables do not emit toxic gases and do not give off corrosive gases, avoiding any dangerous situation to people or electronic devices. Because of this are highly recommended for use in public places such as: hospitals, train stations, schools, shopping centres and airports.

- RZ1-K (AS) 0,6/1 kV cables are manufactured with green coloured sheath according standard UNE 21123.
- RZ1-K (AS) 0,6/1 kV cables can be manufactured in other colours according to IEC 60502-1.
- Insulation for single core cables is black. Insulation for multicore cables is identified according to European standard HD 308 S2.

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 to UNE 21123, UNE HD 603 and XLPE according to IEC 60502.
Filler sheath	Extruded filler for multicore cables. Thermoplastic HFFR material suitable for the CABLE construction.
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.

AVAILABLE ON REQUEST

- Hydrocarbons and oil resistance according to UIC-895 OR

DIMENSIONS

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
1x1.5	13.3	6,5	0,059	Cca-s1b-d1-a1
2x1.5	13.3	9,4	0,124	Cca-s1b-d1-a1
3x1.5	13.3	9,8	0,141	Cca-s1b-d1-a1
4x1.5	13.3	10,6	0,164	Cca-s1b-d1-a1
5x1.5	13.3	11,4	0,198	Cca-s1b-d1-a1
7x1.5	13.3	14,4	0,311	Cca-s1b-d1-a1
12x1,5	13.3	17,4	0,418	Cca-s1b-d1-a1
19x1,5	13.3	18,2	0,499	Cca-s1b-d1-a1
24x1,5	13.3	21,1	0,619	Cca-s1b-d1-a1
1x2.5	7.98	9,4	0,124	Cca-s1b-d1-a1
2x2.5	7.98	10,4	0,161	Cca-s1b-d1-a1
3x2.5	7.98	10,9	0,186	Cca-s1b-d1-a1
4x2.5	7.98	11,9	0,222	Cca-s1b-d1-a1
5x2.5	7.98	12,8	0,261	Cca-s1b-d1-a1
6x2,5	7.98	13,9	0,315	Cca-s1b-d1-a1
7x2,5	7.98	15,9	0,410	Cca-s1b-d1-a1
8x2,5	7.98	16,9	0,461	Cca-s1b-d1-a1
10x2,5	7.98	18,9	0,515	Cca-s1b-d1-a1
12x2,5	7.98	19,4	0,571	Cca-s1b-d1-a1
19x2,5	7.98	22,7	0,830	Cca-s1b-d1-a1
1x4	4.95	10,2	0,144	Cca-s1b-d1-a1
2x4	4.95	11,4	0,205	Cca-s1b-d1-a1
3x4	4.95	12	0,242	Cca-s1b-d1-a1
4x4	4.95	13,1	0,292	Cca-s1b-d1-a1
5x4	4.95	14,1	0,358	Cca-s1b-d1-a1
7x4	4.95	17,4	0,532	Cca-s1b-d1-a1

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
2x6	3.3	12,6	0,264	Cca-s1b-d1-a1
3x6	3.3	13,3	0,317	Cca-s1b-d1-a1
4x6	3.3	14,5	0,387	Cca-s1b-d1-a1
5x6	3.3	15,8	0,478	Cca-s1b-d1-a1
6x6	3.3	17,2	0,531	Cca-s1b-d1-a1
1x10	1.91	9	0,16	Cca-s1b-d1-a1
2x10	1.91	14,4	0,378	Cca-s1b-d1-a1
3x10	1.91	15,2	0,465	Cca-s1b-d1-a1
4x10	1.91	16,7	0,574	Cca-s1b-d1-a1
5x10	1.91	18,2	0,870	Cca-s1b-d1-a1
1x16	1.21	9,3	0,198	Cca-s1b-d1-a1
2x16	1.21	16,6	0,53	Cca-s1b-d1-a1
3x16	1.21	17,6	0,831	Cca-s1b-d1-a1
4x16	1.21	19,3	0,823	Cca-s1b-d1-a1
5x16	1.21	21,2	1,238	Cca-s1b-d1-a1
1x25	0.78	11,1	0,290	Cca-s1b-d1-a1
2x25	0.78	22,2	0,936	Cca-s1b-d1-a1
3x25	0.78	23,4	1,139	Cca-s1b-d1-a1
4x25	0.78	25,6	1,339	Cca-s1b-d1-a1
5x25	0.78	28,4	1,722	Cca-s1b-d1-a1
1x35	0.554	12,2	0,382	Cca-s1b-d1-a1
2x35	0.554	25,2	1,243	Cca-s1b-d1-a1
3x35	0.554	25,8	1,477	Cca-s1b-d1-a1
4x35	0.554	28,3	1,816	Cca-s1b-d1-a1
5x35	0.554	31,4	2,254	Cca-s1b-d1-a1
1x50	0.386	13,8	0,526	Cca-s1b-d1-a1
2x50	0.386	27,6	1,607	Cca-s1b-d1-a1
3x50	0.386	29,3	2,007	Cca-s1b-d1-a1
4x50	0.386	32,7	2,537	Cca-s1b-d1-a1
5x50	0.386	36,1	3,023	Cca-s1b-d1-a1
1x70	0.272	15,7	0,727	Cca-s1b-d1-a1
2x70	0.272	31,8	2,212	Cca-s1b-d1-a1
3x70	0.272	33,9	2,799	Cca-s1b-d1-a1
4x70	0.272	37,5	3,494	Cca-s1b-d1-a1
5x70	0.272	41,4	4,309	Cca-s1b-d1-a1
1x95	0.206	17,3	0,935	Cca-s1b-d1-a1
2x95	0.206	36,6	2,786	Cca-s1b-d1-a1
3x95	0.206	37,2	3,532	Cca-s1b-d1-a1
4x95	0.206	41,1	4,425	Cca-s1b-d1-a1
5x95	0.206	46,1	5,686	Cca-s1b-d1-a1
1x120	0.161	19,6	1,121	Cca-s1b-d1-a1
3x120	0.161	42,3	4,466	Cca-s1b-d1-a1

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)	CPR
4x120	0.161	46,1	5,522	Cca-s1b-d1-a1
5x120	0.161	52,8	7,055	Cca-s1b-d1-a1
1x150	0.129	22,4	1,480	Cca-s1b-d1-a1
3x150	0.129	48,7	5,731	Cca-s1b-d1-a1
1x185	0.106	24,8	1,789	Cca-s1b-d1-a1
3x185	0.106	54,0	6,970	Cca-s1b-d1-a1
1x240	0.0801	27,3	2,322	Cca-s1b-d1-a1
1x300	0.0641	30,2	2,903	Cca-s1b-d1-a1
1x400	0.0486	34,1	3,797	Cca-s1b-d1-a1
1x500	0.0384	37,9	4,947	Cca-s1b-d1-a1
1x630	0,0287	44,6	6,403	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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