

Cables 0,6/1 kV

## RZ1-K (AS) 0,6/1 kV CPR



### Description

The RZ1-K (AS) Halogen-free CPR cables comply with the construction product classification criteria according to the EU CPR Regulation 305/2011 and EN 50575, being those indicated for fixed installations, protected or unprotected, where low fumes and corrosive gas emission is required in the event of fire, such as public premises, hospitals, school, shopping centres and airports. They are suitable for indoor and outdoor installations. Their flexibility makes them very appropriate in complex and extremely difficult installations.

RZ1-K (AS) 0,6/1 kV cables are manufactured with green colored sheath according standard UNE 21123. RZ1-K (AS) 0,6/1 kV cables can be manufactured in other colors according to IEC 60502.  
Reference Standards: UNE 21123 and HD 603 S1

### Applications

- Underground supply networks for outdoor lighting installations

They can also be used in the following applications:

- Underground networks for low voltage distribution
- Electricity distribution networks
- Underground service connections
- Installations in premises with special characteristics
- Appropriate for installations where greater fire protection is required.

### Technical Characteristics

1. Conductor	Flexible electrolytic copper conductor (Class V) according to BS EN 60228:2005.
2. Insulation	Cross-linked polyethylene (XLPE), type DIX-3, according to UNE 21123 and HD 603S1
3. Sheath	Thermoplastic polyolefin sheath DMZ-E type according to UNE 21123 and ST8 according to IEC 60502-1
Nominal voltage	0,6/1 kV
Test voltage	3.500 V A.C.
Maximum temperature	90 °C

## Other characteristics

UV Resistance: climatic test according to UNE 211605

Colours according to UNE 21089 and HD 303S2 (colour marking when less than five conductors) and UNE-EN 50334 and EN 50334 (inscription marking when more than five conductors)

Non-flame propagating according to UNE-EN 60332-1-2, EN 60332-1-2 and IEC 60332-1-2

Non fire propagating according to EN50399.

Low halogen content according to IEC 60754-1 and 60754-2

Low corrosive gas emission according to IEC 60754-1 and 60754-2

Low opaque smoke emission according to UNE-EN 61034, EN 61034 and IEC 61034

The use of cross-linked polyethylene (XLPE) admits greater current density, at equal section, respect to the insulation with PVC

CPR Classification according to EN 50575

## Dimensions

Section (mm <sup>2</sup> )	Resistance at 20 °C (Ohm/km)	External Diameter (mm)	Weight (kg/km)	Class
1x1,5	13,3	6,50	58	Cca- s1b, d1, a1
1x2,5	7,98	6,85	72	Cca- s1b, d1, a1
1x4	4,95	7,55	92	Cca- s1b, d1, a1
1x6	3,3	8,25	117	Cca- s1b, d1, a1
1x10	1,91	9,00	159	Cca- s1b, d1, a1
1x16	1,21	10,00	220	Cca- s1b, d1, a1
1x25	0,78	12,10	312	Cca- s1b, d1, a1
1x35	0,554	13,25	406	Cca- s1b, d1, a1
1x50	0,386	15,10	571	Cca- s1b, d1, a1
1x70	0,272	16,95	765	Cca- s1b, d1, a1
1x95	0,206	19,75	1.010	Cca- s1b, d1, a1
1x120	0,161	21,45	1.246	Cca- s1b, d1, a1
1x150	0,129	23,80	1.543	Cca- s1b, d1, a1
1x185	0,106	25,70	1.885	Cca- s1b, d1, a1
1x240	0,0801	28,90	2.396	Cca- s1b, d1, a1
1x300	0,0641	32,20	2.982	Cca- s1b, d1, a1
2x1,5	13,3	9,80	133	Cca- s1b, d1, a1
2x2,5	7,98	10,85	157	Cca- s1b, d1, a1
2x4	4,95	11,90	216	Cca- s1b, d1, a1
2x6	3,3	13,05	273	Cca- s1b, d1, a1
2x10	1,91	14,80	385	Cca- s1b, d1, a1
2x16	1,21	17,00	544	Cca- s1b, d1, a1
3G1,5	13,3	10,20	155	Cca- s1b, d1, a1
3G2,5	7,98	11,20	194	Cca- s1b, d1, a1
3G4	4,95	12,40	249	Cca- s1b, d1, a1
3G6	3,3	13,70	325	Cca- s1b, d1, a1
3G10	1,91	15,50	466	Cca- s1b, d1, a1
3x16	1,21	18,00	679	Cca- s1b, d1, a1

Section (mm <sup>2</sup> )	Resistance at 20 °C (Ohm/km)	External Diameter (mm)	Weight (kg/km)	Class
3x25	0,78	21,85	979	Cca- s1b, d1, a1
3G35	0,554	23,75	1.290	Cca- s1b, d1, a1
4G1,5	13,3	11,20	176	Cca- s1b, d1, a1
4G2,5	7,98	12,25	217	Cca- s1b, d1, a1
4G4	4,95	13,30	294	Cca- s1b, d1, a1
4G6	3,3	14,85	390	Cca- s1b, d1, a1
4G10	1,91	16,70	565	Cca- s1b, d1, a1
4x16	1,21	19,65	837	Cca- s1b, d1, a1
4x25	0,78	24,75	1.204	Cca- s1b, d1, a1
4x35	0,554	27,05	1.615	Cca- s1b, d1, a1
4x50	0,386	31,20	2.284	Cca- s1b, d1, a1
5G1,5	13,3	12,00	201	Cca- s1b, d1, a1
5G2,5	7,98	13,15	245	Cca- s1b, d1, a1
5G4	4,95	14,50	348	Cca- s1b, d1, a1
5G6	3,3	16,10	459	Cca- s1b, d1, a1
5G10	1,91	18,15	670	Cca- s1b, d1, a1
5G16	1,21	21,35	991	Cca- s1b, d1, a1
5G25	0,78	26,60	1.447	Cca- s1b, d1, a1
5G35	0,554	29,95	1.954	Cca- s1b, d1, a1
5G50	0,386	34,85	2.754	Cca- s1b, d1, a1
5G70	0,272	39,75	3.841	Cca- s1b, d1, a1
6G1,5	13,3	10,60	162	Eca
6G2,5	7,98	11,80	224	Eca
7G1,5	13,3	10,60	177	Eca
7G2,5	7,98	13,75	315	Eca
7G6	3,3	16,40	537	Eca
7G10	1,91	18,30	790	Eca
8G1,5	13,3	11,70	206	Eca

### Dimensions

Section (mm <sup>2</sup> )	Resistance at 20 °C (Ohm/km)	External Diameter (mm)	Weight (kg/km)	Class
8G2,5	7,98	13,10	305	Eca
10G1,5	13,3	13,25	265	Eca
10G2,5	7,98	14,95	375	Eca
12G1,5	13,3	13,30	286	Eca
12G2,5	7,98	14,95	404	Eca
14G1,5	13,3	15,00	345	Eca
14G2,5	7,98	15,90	452	Eca
14G6	3,3	20,80	938	Eca
16G1,5	13,3	15,20	365	Eca
16G2,5	7,98	17,00	513	Eca
19G1,5	13,3	16,60	433	Eca
19G2,5	7,98	17,85	585	Eca
24G1,5	13,3	20,00	614	Eca
24G2,5	7,98	19,75	719	Eca
30G1,5	13,3	20,00	635	Eca