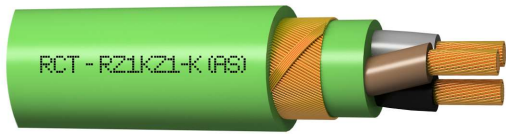


# Cables Instrumentation and control

## **RZ1KZ1-K (AS) 0,6/1 kV**



### Description

These cables are indicated for executing permanent installations where electromagnetic protection is required to avoid parasitic currents. Their use is recommended in control applications of drivers, solenoid valves, start-up of machines and robots, remote switches, temperature, intensity or voltage regulation in motorised valves as well as for installations in computer centres, airports, road tunnels, railways and anywhere where low fumes and corrosive gas emission is required in the event of fire, such as public premises, hospitals, schools and shopping centres.

Reference Standards: UNE 21123, HD 603 S1 and IEC 60502

### Applications

Suitable for:

- 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, (Class V), according to BS EN 60228:2005 (previously BS6360)and UNE 60228.
2. Insulation	Cross-linked polyethylene (XLPE), type DIX-3, according to UNE 21123 and HD 603S1
3. Concentric conductor bedding	HFFR compound
4. Wire screen concentric conductor	Outer conductor of copper wires and contrahelical copper wires
5. Sheath	Thermoplastic polyolefin sheath type DMZ-E according to UNE 21123.
Nominal voltage	0,6/1 kV
Test voltage	3.500 V A.C.
Maximum temperature	90 °C

#### Other characteristics

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 in accordance with UNE-EN 60332-3-24, EN 60332-3-24 and IEC 60332-3-24

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.

#### Dimensions

Section (mm <sup>2</sup> )	Resistance at 20 °C (Ohm/km)	External Diameter (mm)	Weight (kg/km)
1x95/95	0,206	21,30	1.775
1x120/120	0,161	23,50	2.245
1x150/150	0,129	25,75	2.779
1x185/185	0,106	27,95	3.343
1x240/240	0,0801	21,05	4.398
1x300/300	0,0641	34,20	5.497
3x1,5/1,5	13,3	12,30	190
3x2,5/2,5	7,98	13,05	236
3x4/4	4,95	14,55	314
3x6/6	3,3	15,65	400
3x10/10	1,91	17,95	583
3x16/16	1,21	20,20	828
3x25/25	0,78	23,85	1.222
3x35/35	0,554	27,35	1.682
3x50/50	0,386	31,80	2.349
3x70/70	0,272	36,40	2.937
3x95/95	0,206	41,70	4.247
3x120/120	0,161	46,65	5.389
3x150/150	0,129	51,25	6.668
3x185/185	0,106	56,40	8.169

Section (mm <sup>2</sup> )	Resistance at 20 °C (Ohm/km)	External Diameter (mm)	Weight (kg/km)
3x25/16	0,78	23,85	1.150
3x35/16	0,554	27,35	1.527
3x50/25	0,386	31,80	2.142
3x70/35	0,272	36,40	2.937
3x95/50	0,206	41,30	3.877
3x120/70	0,161	46,65	4.977
3x150/70	0,129	51,25	6.008
3x185/95	0,106	56,40	7.353
4x2,5/2,5	7,98	13,95	273
4x4/4	4,95	15,60	367
4x6/6	3,3	16,95	474
4x10/10	1,91	19,35	692
4x16/16	1,21	21,70	979
4x25/25	0,78	26,00	1.468
4x35/35	0,554	28,75	1.953
4x50/50	0,386	36,45	2.958
4x70/70	0,272	41,05	3.974
4x95/95	0,206	45,25	5.075
4x120/120	0,161	51,45	6.535
4x150/150	0,129	56,25	8.039