

# Cables Instrumentation and control

## 05Z1C4Z1-K 300/500 V



### Description

This cables comply with the construction product classification criteria according to the EU CPR Regulation 305/2011 and EN 50575, being those suitable for permanent installations where electromagnetic protection is required to avoid parasitic currents. They are recommended for use in applications for the control and command of inverters, solenoid valves, machine and logic controller start-up, power switches, temperature, current or voltage regulation in motorised valves as well as for installation in computing facilities, airports, road tunnels, railway networks and wherever a low emission of corrosive fumes and gases is required due to fire hazards such as public premises, hospitals, schools and shopping centres.

Reference Standards: UNE 21031-14 and HD 21.14S1

### Applications

Suitable for the following installations:

- Data communication systems
- Control and signal in electronics
- Computer systems
- Weighing equipment, etc.

### Technical Characteristics

1. Conductor	Flexible electrolytic copper (Class V) in compliance with UNE-EN 60228, EN 60228 and IEC 60228
2. Insulation	Halogen-free thermoplastic polyolefin, type TI-6 in compliance with UNE 21031-14
3. Metallic armour	Copper braid on polyester sheet
4. Sheath	Halogen-free thermoplastic polyolefin, type TM-7 in compliance with UNE 21031-14 and HD 21.14S1
Nominal voltage	300/500 V
Test voltage	2.000 V A.C.
Maximum temperature	70 °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

Low halogen content in compliance with IEC 60754

Low emission of corrosive gases in compliance with IEC 60754-1 and 60754-2

Low emission of opaque fumes in compliance with UNE-EN 61034, EN 61034 and IEC 61034

CPR classified according to EN 50575

Dimensions

Section (mm <sup>2</sup> )	Resistance at 20 °C (Ohm/km)	External Diameter (mm)	Weight (kg/km)	Class
2x1	19,5	7,15	63	Eca
3G0,75	26	6,85	63	Eca
3G1	19,5	7,50	78	Eca
4x1	19,5	8,20	97	Eca
5x0,5	39	7,45	75	Eca
5x0,75	26	8,25	95	Eca
5x1	19,5	8,90	115	Eca
6x0,5	39	8,65	97	Eca
6x0,75	26	9,05	102	Eca
6x1	19,5	9,60	125	Eca
7x0,5	39	8,65	106	Eca
7x0,75	26	9,30	128	Eca
7x1	19,5	9,20	138	Eca
8x0,5	39	9,30	119	Eca
8x0,75	26	10,00	143	Eca
8x1	19,5	10,65	157	Eca
10x0,5	39	10,40	151	Eca
10x0,75	26	10,90	175	Eca
10x1	19,5	12,10	191	Eca
12x0,5	39	11,05	173	Eca
12x0,75	26	11,60	202	Eca
12x1	19,5	11,75	226	Eca
14x0,5	39	11,75	196	Eca
14x0,75	26	12,35	229	Eca
14x1	19,5	12,45	256	Eca
16x0,5	39	12,65	225	Eca
16x0,75	26	13,50	238	Eca
16x1	19,5	13,60	301	Eca
19x0,5	39	13,30	256	Eca
19x0,75	26	14,20	308	Eca
19x1	19,5	14,05	335	Eca
24x0,5	39	14,65	311	Eca
24x0,75	26	15,65	339	Eca
24x1	19,5	15,70	417	Eca
30x0,5	39	16,05	374	Eca
30x1	19,5	17,30	511	Eca