



## 05Z1-K/07Z1-K

### Application and Description

These halogen free single core cables are high security cables. In the event of fire, these cables do not emit toxic gases, nor do they give off corrosive gases. For these reasons they are recommended for use in public places such as: hospitals, schools, museums, airports, bus terminals, shops in general, etc., as well as in computer rooms, offices, production plants, switchboard wiring, laboratories, etc

### Standard

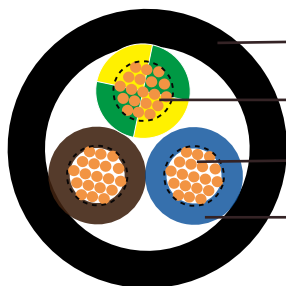
UNE 211002, HD 21.15 , EN 60332-1 / EN 50266 / EN 50267-1 / EN 50267-2 / EN 61034, IEC 60332-1 / IEC 60332-3 / IEC 60754-1 / IEC 60754-2 / IEC 61034

### Cable Construction

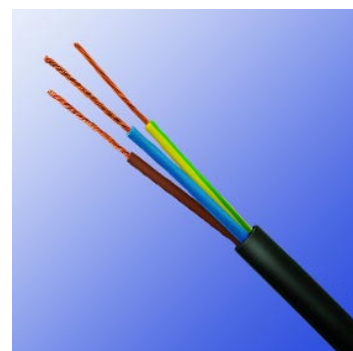
- Flexible electrolytic annealed copper conductor
- Class 5 in accordance with IEC 60228
- Single layer of non-toxic and fire retardant polyolefin insulation
- Color coded to EN 50334, 6 or more conductors: black numbered + green/yellow.
- Polyolefin outer sheath according to UNE 21123-4

### Technical Characteristics

- Working voltage: 300/500 volts(05z1-k), 450/750 volts(07z1-k)
- Test voltage:5000 volts
- Minimum bending radius: 5 x Ø
- Working temperature: +5° C to +70° C
- Short circuit temperature: +160° C
- Insulation resistance: 20 MΩ x km
- Halogen free: IEC 60754-1, EN 50267-2-1
- No corrosive gases: IEC 60754-2, EN 50267-2-2
- No toxic gases: NES 02-713, NF X 70-100
- Low smoke density: IEC 61034, EN 50268-2
- Flame retardant: IEC 60332-1, EN 50265-2-1
- Non-flame propagating: IEC 60332-3, EN 50266-2



- Polyolefin outer jacket
- Green/Yellow wire
- Annealed copper conductor
- Polyolefin insulation



### Cable Parameter

05Z1-K

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| AWG              | No. of Cores x<br>Nominal Cross<br>Sectional Area<br># x mm <sup>2</sup> | Nominal<br>Thickness of<br>Insulation<br>mm | Nominal Overall<br>Diameter<br>mm | Nominal Weight<br>kg/Km |
|------------------|--|---|-----------------------------------|-------------------------|
| <b>05Z1-K</b>    |  |   |                                   |                         |
| 20(16/32)        | 2 x 0,50   | 0.5   | 1.9                               | 8                       |
| 18(24/32)        | 2 x 0,75   | 0.6   | 2.3                               | 11                      |
| 17(32/32)        | 2 x 1,0  | 0.6   | 2.4                               | 14                      |
| <b>07Z1-K</b>    |  |   |                                   |                         |
| 16(30/30)        | 1 x 1.5  | 0.7   | 2.9                               | 20                      |
| 14(50/30)        | 1 x 2.5  | 0.8   | 3.5                               | 31                      |
| 12(56/28)        | 1 x 4  | 0.8   | 4.1                               | 46                      |
| 10(84/28)        | 1 x 6  | 0.8   | 4.8                               | 65                      |
| 8(80/26)         | 1 x 10   | 1.0   | 6                                 | 108                     |
| 6(128/26)        | 1 x 16   | 1.0   | 7.2                               | 167                     |
| 4 (200/26)       | 1 x 25   | 1.2   | 8.8                               | 258                     |
| 2 (280/26)       | 1 x 35   | 1.2   | 9.7                               | 341                     |
| 1 (400/26)       | 1 x 50   | 1.4   | 11.5                              | 496                     |
| 2/0 (356/24)     | 1 x 70   | 1.4   | 13.3                              | 680                     |
| 3/0 (485/24)     | 1 x 95   | 1.6   | 15.4                              | 919                     |
| 4/0 (614/24)     | 1 x 120  | 1.6   | 17.2                              | 1146                    |
| 300 MCM (765/24) | 1 x 150  | 1.8   | 18.6                              | 1385                    |
| 350 MCM (944/24) | 1 x 185  | 2.0   | 21                                | 1763                    |
| 500MCM(1225/24)  | 1 x 240  | 2.2   | 25.4                              | 2253                    |
| -                | 5 x 1,50   | 2.4   | 27.8                              | 2770                    |