



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 and Approval

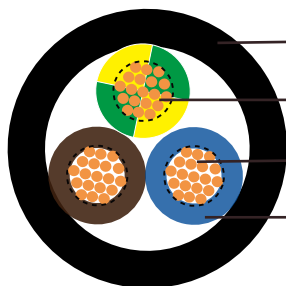
UNE 211002, HD 21.15 , EN 60332-1 / EN 50266 / EN 50267-1 / EN 50267-2 / EN 61034, IEC 60332-1 / IEC 60332-3 / IEC 60754-1 / IEC 60754-2 / IEC 61034

Cable Construction

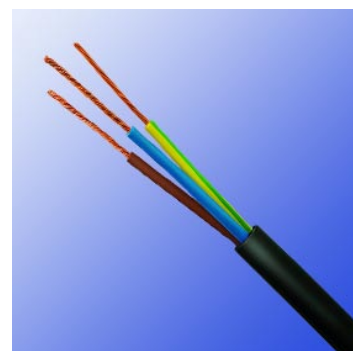
- Flexible electrolytic annealed copper conductor
- Class 5 in accordance with IEC 60228
- Single layer of non-toxic and fire retardant polyolefin insulation
- Color coded to EN 50334, 6 or more conductors: black numbered + green/yellow.
- Polyolefin outer sheath according to UNE 21123-4

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

05Z1-K

AWG	No. of Cores x Nominal Cross Sectional Area # x mm ²	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
05Z1-K				
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
07Z1-K				
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