



## ES05Z1-K(AS)/ES07Z1-K(AS)

### Application and Description

These flexible and halogen-free cables are indicated for permanent installations in public premises and where low corrosive gas and fumes emission is required in case of fire, such as hospitals, schools, shopping centers, airports and in all installations where greater fire protection is required. These cables are also appropriate for the installation of individual by-passes. It satisfies all the specifications. .Appropriate for other installations where greater fire protection is required, even in housing

### Standard and Approval

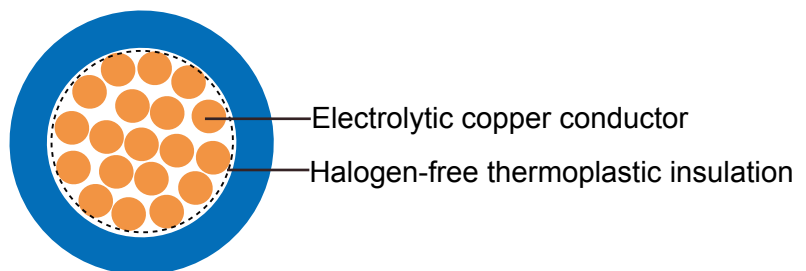
UNE211002, IEC 60332-1, IEC 60332-3, IEC 60754-1, IEC 60754-2 , IEC 61034, EN 50266, EN 50267

### Cable Construction

- Flexible electrolytic copper conductor
- according to UNE-EN 60228 class 5 and IEC 60228 class 5
- Halogen-free thermoplastic insulation type T17, according to UNE 211002 and HD 21.15S1:2006.

### Technical Characteristics

- Working voltage: 300/500V(ES05Z1-K)  
450/750V(ES07Z1-K)
- Test voltage: 2000V(ES05Z1-K)  
2500V(ES07Z1-K)
- Minimum bending radius:  $5 \times \varnothing$
- Flexing temperature:  $-15^{\circ}\text{C}$  -  $+70^{\circ}\text{C}$
- Short circuit temperature:  $+70^{\circ}\text{C}$
- Insulation resistance:  $350 \text{ M}\Omega \times \text{km}$
- 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



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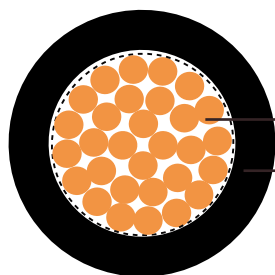


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### Cable Parameter

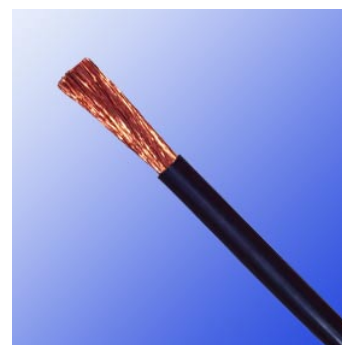
AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Weight kg/km
<b>ES05Z1-K(AS)</b>					
20(16/32)	1×0.50	0.6	2.2	4.8	8.9
18(24/32)	1×0.75	0.6	2.42	7.2	11.5
17(32/32)	1×1	0.6	2.56	9.6	14.0
<b>ES07Z1-K(AS)</b>					
16(30/30)	1 x 1.5	0,7	3.0	14.4	19.7
14(50/30)	1 x 2.5	0,8	3.7	24	31.1
12(56/28)	1 x 4	0,8	4.22	38	45.7
10(84/28)	1 x 6	0,8	4.88	58	63.8
8(80/26)	1 x 10	1,0	6.25	96	109
6(128/26)	1 x 16	1,0	7.7	154	172
4(200/26)	1 x 25	1,2	9.3	240	265
2(280/26)	1 x 35	1,2	10.9	336	360
1(400/26)	1 x 50	1,4	12.5	480	515
2/0(356/24)	1 x 70	1,4	14.6	672	692
3/0(485/24)	1 x 95	1,6	17.0	912	952



Electrolytic copper conductor

Halogen-free thermoplastic insulation

ES07Z1-K



ES07Z1-K