

Single core non-sheathed cables with halogen free insulation

DESCRIPTION

Single core non-sheathed electric cables with thermoplastic halogen free insulation. These cables are suitable for energy transport and for electric connexion for fixed installations.

Construction according to EN 50525-3-31.

TECHNICAL CHARACTERISTICS

- 1 - Conductor: Flexible bare copper class 5 a/EN 60228
 · H07Z1-K: blank copper
 · H07Z1-K SN: tinned copper
- 2 - Insulation: Halogen free compound type TI7 a/EN 50363-7
 · Colours: black, blue, brown, grey, orange, pink, red, turquoise, violet, white and yellow/green.



- Rated voltage: 450 / 750 V
 · These cables can be used at 0.6/1 kV when they are installed in a fixed installation mechanically protected, inside a distribution and control device.
- Test voltage: 2.500 V
- Operating temperature: -15°C to +70°C
- Maximum short-circuit temperature: 160°C (max. 5 s)
- Bending radius: 5 Ø

FEATURES FRONT FIRE (AS)

| TESTS | STANDARDS | VALUES |
|--|-------------------------------|--------------------------------------|
| Flame retardant | EN 60332-1-2, IEC 60332-1-2 | OK |
| Fire retardant | EN 60332-3-24, IEC 60332-3-24 | OK |
| Low smoke emission (transmittance > 60%) | EN 61034-2, IEC 61034-1-2 | OK |
| Halogen free (HCl) (<0,5%) | EN 50267-2-1, IEC 60754-2 | OK |
| Corrosivity test | EN 50267-2-2, IEC 60754-2 | pH ≥ 4,3 Conductivity ≤ 100 µS/cm |

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DATA AND DIMENSIONS

Dimensions and weights are approximates, subject to small variations due to process. Other sizes are possible on request.

| CROSS SECTION mm ² | RESISTANCE (Max. at 20°C) Ω/km | | CURRENT (Max. at 40°C) A | INSULATION THICKNESS mm | OUTER Ø mm | WEIGHT Kg/km |
|----------------------------------|--------------------------------------|--------|--------------------------------|-------------------------------|---------------|-----------------|
| | blank | tinned | | | | |
| 1x1,5 | 13,3 | 13,7 | 15 | 0,7 | 2,9 | 19,1 |
| 1x2,5 | 7,98 | 8,21 | 21 | 0,8 | 3,6 | 31,9 |
| 1x4 | 4,95 | 5,09 | 27 | 0,8 | 4,1 | 44,9 |
| 1x6 | 3,30 | 3,39 | 36 | 0,8 | 4,7 | 62,7 |
| 1x10 | 1,91 | 1,95 | 50 | 1,0 | 6,0 | 107 |
| 1x16 | 1,21 | 1,24 | 66 | 1,0 | 7,1 | 158 |
| 1x25 | 0,780 | 0,795 | 84 | 1,2 | 8,7 | 244 |
| 1x35 | 0,554 | 0,565 | 104 | 1,2 | 9,9 | 335 |
| 1x50 | 0,386 | 0,393 | 125 | 1,4 | 11,7 | 472 |
| 1x70 | 0,272 | 0,277 | 160 | 1,4 | 13,7 | 675 |
| 1x95 | 0,206 | 0,210 | 194 | 1,6 | 15,6 | 870 |
| 1x120 | 0,161 | 0,164 | 225 | 1,6 | 17,2 | 1.101 |
| 1x150 (*) | 0,129 | 0,132 | 260 | 1,8 | 19,2 | 1.367 |
| 1x185 (*) | 0,106 | 0,108 | 297 | 2,0 | 21,2 | 1.660 |
| 1x240 (*) | 0,0801 | 0,0817 | 350 | 2,2 | 24,9 | 2.201 |

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