

IFSI 300/500V



Safety cable (Halogen-free control cable)

Halogen-free thermoplastic insulated control cable to secure areas from heavy smoke and corrosive gasses in case of fire. It is halogen free version of cable type PFSP 500V.

Application:

- Halogen-free control cables for indoor and outdoor use where dark smoke and corrosive fumes can give damage in case of a fire.
- Cable ends have to be sealed water-proof during transport, storage and laying.
- Cables shall be installed in such way that the spread of fire and its consequences are limited.
- Pilling loads for cables with copper conductors: max. $50 \times S$ (S- the sum of all cross-section conductors in mm^2) [N]



Standard : CENELEC HD 627-S1:2002 part 7B1

Flame retardancy : EN 60332-3-23 (cat. B); EN 60332-3-24 (cat. C); EN 50575:2014+ A1:2016

Halogen-free : EN 60754-1:2014-11; EN 60754-2:2014-11

Low smoke: IEC 61034-2:2010

Cenelec designation: N05Z1CZ1-K

CPR class: D_{ca} S₂ d₂ a₂



Rated voltage : 300/500 V

No. and rated cross-section cores: 2 ÷ 28 × 0,75 mm²

Test voltage: 2000 V

Max conductor temp.: 70 °C

Max. resistance conductor at 20°C: 0,75 mm² → 26 Ω/km



Colours acc. to HD 186:

White core with black numbers



Construction:

- conductors acc. to PN-EN 60228:2007, flexible copper conductor class 5, at the request tined
- insulation: halogen-free compound (I)
- assembly: four cores are twisted together as quads. Quads laid up in concentric layers.
- inner covering: bedding of halogen-free material taped or extruded (F)
- concentric conductor: concentric copper wires except 4x0,75mm² braided copper wires
- inner covering: taped bedding of halogen-free material over the concentric conductor
- sheath: halogen-free compound, black, UV-resistant (I)



Non-returnable Drums or coils



Temperature :

- max. conductor temp. : +70°C
- during installation and mounting of accessories: - 20°C
- fixed installation: - 30°C ÷ 70°C
- Short circuit temp. max. : 160°C



Min. bending radius:

- fixed installation: 12 × cable diameter

ETIM

ETIM 6/7 Class-ID: EC000104

Class-Description: Control cable

ETIM Dynamic 2.0 Class-ID: EC003250

Class-Description: Power cable < 1 kV, for flexible applications

Specifications are subject to change without notice for Customer

Technical Data– IFSI 300/500V

No and cross-section of conductors / cross-section of concentric conductors	Nominal thickness of insulation	Number of guads in assembly	Nominal thickness of oversheath	Outer diameter approx	Cable weight approx
	[mm]	[pcs]	[mm]	[mm]	[kg]
4 × 0,75 / 3,0 ^{*)}	0,6	1	1,2	9,7	136
8 × 0,75 / 4,0		2	1,4	12,2	241
12 × 0,75 / 4,0		3	1,4	14,2	287
20 × 0,75 / 4,0		5	1,6	17,3	440
28 × 0,75 / 6,0		7	1,6	19,9	560

^{*)} braided copper wires

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