

IFSI 450/750V



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 750V

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.
- Pulling loads for cables with copper conductors: max. $50 \times S$ (S- the sum of all cross-section conductors in mm^2) [N]
- Cables could be installed outside and inside and also buried directly into ground.

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Standard : CENELEC HD 627-S1:2002 part 7B2

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: N07Z1CZ1-K

CPR class: D_{ca} S₂ d₂ a₂



Rated voltage : 450/750 V

No. and rated cross-section cores: 5x, 7x, 12x, 19x, 27x, 37x 1,5mm²
5x, 7x, 12x, 19x, 27x, 37x 2,5mm²

Test voltage: 2500 V AC 5min

Max conductor temp.: 70 °C

Max. resistance conductor at 20°C: 1,5mm² → 12,1 Ω/km/ 2,5mm² → 7,41 Ω/km



Colours acc. to HD 186:

White core with black numbers



Construction:

- conductors acc. to EN 60228:2007, copper conductor class 1, at the request tinned
- insulation: halogen-free compound (I)
- assembly: cores are twisted in concentric layers
- inner covering: bedding of halogen-free material taped or extruded (F)
- concentric conductor: copper wires helically twisted; copper wire or copper tape helix applied over the screen in opposite direction, concentric conductor may be used as protective earth PE (S)
- inner covering: taped bedding of halogen-free material over the concentric conductor
- sheath: reinforced, special Low Smoke Zero Halogen Flame Retardant Jacketing Compound, black UV-resistant (I)



Non returnable Drums 500m and 1000m



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 450/750V

No and cross-section of conductors / cross-section of concentric conductors	Nominal thickness of insulation	Metal screen Max resistance	Nominal thickness of oversheath	Outer diameter approx	Cable weight approx
	mm	Ohm/km	mm	mm	kg/km
5 × 1,5 / 2,5	0,7	7	1,6	13,6	199
7 × 1,5 / 4	0,7	4,5	1,6	14,5	238
12 × 1,5 / 4	0,7	4,5	1,6	17,7	370
19 × 1,5 / 6	0,7	3	1,9	20,6	559
27 × 1,5 / 6	0,7	3	1,9	23,8	733
37 × 1,5 / 6	0,7	3	1,9	26,1	937
5 × 2,5 / 2,5	0,8	7	1,6	15,2	283
7 × 2,5 / 4	0,8	4,5	1,6	16,8	379
12 × 2,5 / 4	0,8	4,5	1,6	20,1	531
19 × 2,5 / 6	0,8	3	1,9	23,5	782
27 × 2,5 / 6	0,8	3	1,9	27,3	1 047
37 × 2,5 / 6	0,8	3	1,9	30,2	1 364

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