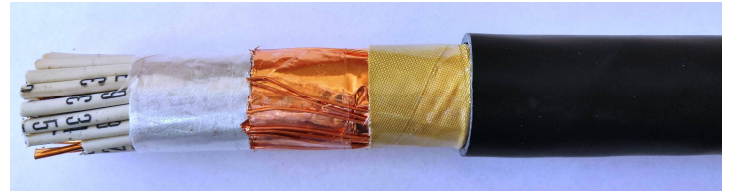


IFSI-EMC 450/750V



Halogen-free thermoplastic insulated shielded control cable for 450/750V.

Application:

- Halogen-free control cables for indoor and outdoor use for signaling systems, where dark smoke and corrosive fumes can give damage in case of fire.
- Improved EMC 100% screen according to EMC directive (low transfer impedance, provide shielding against EMI (insulation) and EME (radiance) .
- 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.



Standard: CENELEC HD 627-S1:2002 part7B2

Flame retardant: YES, acc. to EN 60332-3-24 (cat. C); EN 50575:2014+ A1:2016

Halogen-free: YES, acc. to EN 60754-1:2014-11; EN 60754-2:2014-11

Low smoke: YES, acc. to IEC 61034-2:2010, EN 61034-2:2010+A1:2014-02

Reaction to fire according to EN50575:2014+A1:2016: CPR class: D_{ca} s2 d2 a2



Nominal voltage U_0/U_n : 450 / 750 V

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

Test voltage: 2500 V

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



Core identification acc. to EN 50334:

White cores with black numbers



Construction:

- Conductors: round, solid copper (RE) class 1 acc. to EN 60228,
- insulation: halogen-free compound
- concentric conductor (EMC): copper tape with overlap and copper wires helically twisted; concentric conductor may be used as protective earth PE
- sheath: halogen-free compound black, UV-resistant



Temperature:

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



Min. bending radius:

fixed installation: 12 × cable diameter

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Non-returnable wooden drums: length 1000m
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-EMC 450/750V

No and cross-section of conductors / cross-section of concentric conductors	Nominal thickness of insulation	Metal screen Max resistance	Nominal thickness of over sheath	Outer diameter approx.	Cable weight approx.
	mm	Ohm/km	mm	mm	kg/km
5 × 1,5 / 2,5	0,7	7,0	1,7	13,2	241
7 × 1,5 / 4	0,7	4,5	1,7	14,1	293
12 × 1,5 / 4	0,7	4,5	1,7	17,3	424
19 × 1,5 / 6	0,7	3,0	2,0	20,3	637
27 × 1,5 / 6	0,7	3,0	2,0	23,6	834
37 × 1,5 / 6	0,7	3,0	2,0	25,9	1062
5 × 2,5 / 2,5	0,8	7,0	1,7	14,8	314
7 × 2,5 / 4	0,8	4,5	1,7	15,8	388
12 × 2,5 / 4	0,8	4,5	1,7	19,8	582
19 × 2,5 / 6	0,8	3,0	2,0	23,3	883
27 × 2,5 / 6	0,8	3,0	2,0	27,2	1179
37 × 2,5 / 6	0,8	3,0	2,0	30,1	1526

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VER.1.09 2020.10.21