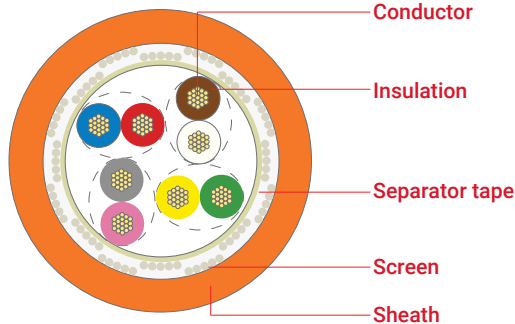




Cable structure



Conductor
Stranded copper wire
Class 5, IEC 60228

Insulation
Halogen-free, cross-linked insulation,
In compliance with DIN 47100 insulation colour coding
E18 EN 50363-5

Separator tape
Pet tape min. 100% coverage
Fibreglass tape min. 100% coverage

Screen
Tinned braided copper wire

Sheath
HFFR, RAL 2003 Orange
70°C EN 50290-2-27, HM2 DIN VDE 0207-24

Application

Used to control and supply power to devices that must remain operational during a fire. Used in emergency lighting and operation of equipment necessary for surveillance and evacuation, and systems that should remain functional for a certain time, such as alarm systems (continuity of flow FE180 continuity of flow with mechanical shocks PH120). The cable is protected against ambient electromagnetic interference by its braided screen. Cables are composed of halogen-free materials (flame retardant materials that do not emit toxic gas or black dense smoke that lowers visibility). They are primarily used in highly populated areas that should have fire resistance, such as smart or semi-smart buildings, housing complexes, hospitals, cinema halls, theatres, schools, shopping malls, airports, factories, etc.

Specifications

Temperature range		-30°C ...+70°C
Bending radius	min.	10 x D
Conductor resistance - effective capacity		
(core/core)	0.75 mm ² max.	26.0 Ω/km - 120 nF/km
	1.0 mm ² max.	19.5 Ω/km - 130 nF/km
	1.5 mm ² max.	13.3 Ω/km - 140 nF/km
	2.5 mm ² max.	7.98 Ω/km - 160 nF/km
Insulation resistance	min.	20 MΩ x km
Test voltage	0.75 mm ²	1200 V
	1.0 mm ²	1200 V
	1.5 mm ²	2500 V
	2.5 mm ²	2500 V
Operating voltage	max.	300 V

Standards TSE K 178, DIN VDE 0812

Fire performance

Vertical flame propagation	EN 60332-1-2
Corrosive gas	EN 60754-1/2
Smoke density	EN 61034-2
Continuity of flow	IEC 60331-21 FE180
Continuity of flow	EN 50200 PH120

EU declaration of conformity

LVD	Low Voltage Directive	2014/35/EU
RoHS	Restriction of Hazardous Substances	2011/65/EU

Specifications may vary depending on technical modifications.



Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
106104	2x2x0.75 mm ²	9.6	36	96
106105	3x2x0.75 mm ²	10.1	51	120
106106	4x2x0.75 mm ²	11.0	64	142
106107	5x2x0.75 mm ²	12.0	79	169
106108	6x2x0.75 mm ²	13.2	92	201
106110	8x2x0.75 mm ²	14.0	119	246
106112	10x2x0.75 mm ²	15.8	145	296
106114	12x2x0.75 mm ²	16.7	173	349

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
106122	2x2x1 mm ²	10.3	47	112
106123	3x2x1 mm ²	10.8	63	140
106124	4x2x1 mm ²	11.8	82	170
106125	5x2x1 mm ²	13.1	100	207
106126	6x2x1 mm ²	14.2	119	241
106128	8x2x1 mm ²	15.1	153	295
106130	10x2x1 mm ²	17.3	190	368
106132	12x2x1 mm ²	18.1	224	423

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
106140	2x2x1.5 mm ²	12.2	66	152
106141	3x2x1.5 mm ²	12.9	91	193
106142	4x2x1.5 mm ²	14.1	119	240
106143	5x2x1.5 mm ²	15.4	145	285
106144	6x2x1.5 mm ²	17.0	173	341
106146	8x2x1.5 mm ²	18.1	223	423
106148	10x2x1.5 mm ²	20.6	283	522
106150	12x2x1.5 mm ²	21.5	334	603

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
106158	2x2x2.5 mm ²	13.5	102	200
106159	3x2x2.5 mm ²	14.3	144	261
106160	4x2x2.5 mm ²	15.7	188	328
106161	5x2x2.5 mm ²	17.5	231	402
106162	6x2x2.5 mm ²	19.0	274	468
106164	8x2x2.5 mm ²	20.4	366	598
106166	10x2x2.5 mm ²	23.7	456	766
106168	12x2x2.5 mm ²	24.8	541	888

Specifications may vary depending on technical modifications.