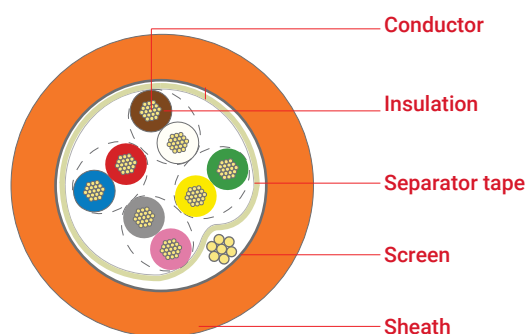




Cable structure



- Conductor**
Stranded copper wire
Class 5, IEC 60228
- Insulation**
Halogen-free, cross-linked insulation,
In compliance with DIN 47100 insulation colour coding
- Separator tape**
Pet tape min. 100% coverage
Fibreglass tape min. 100% coverage
- Screen**
Stranded tinned copper drain wire
Al-Pet tape min. 100% coverage
- 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 signals from outside by its static 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.

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

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

Specifications may vary depending on technical modifications.



Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
107104	2x2x0.75 mm ²	8 . 8	29	80
107105	3x2x0.75 mm ²	9 . 7	42	110
107106	4x2x0.75 mm ²	10.6	54	133
107107	5x2x0.75 mm ²	11.6	67	157
107108	6x2x0.75 mm ²	12.8	79	188
107110	8x2x0.75 mm ²	13.6	104	231
107112	10x2x0.75 mm ²	15.4	129	280
107114	12x2x0.75 mm ²	16.1	154	323

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
107122	2x2x1 mm ²	9 . 9	38	103
107123	3x2x1 mm ²	10.4	54	130
107124	4x2x1 mm ²	11.4	71	158
107125	5x2x1 mm ²	12.7	88	195
107126	6x2x1 mm ²	13.8	104	226
107128	8x2x1 mm ²	14.7	137	280
107130	10x2x1 mm ²	17.0	171	353
107132	12x2x1 mm ²	17.8	204	408

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
107140	2x2x1.5 mm ²	11.7	54	138
107141	3x2x1.5 mm ²	12.6	79	184
107142	4x2x1.5 mm ²	13.8	104	229
107143	5x2x1.5 mm ²	15.1	129	274
107144	6x2x1.5 mm ²	16.7	154	327
107146	8x2x1.5 mm ²	17.8	203	408
107148	10x2x1.5 mm ²	20.2	253	498
107150	12x2x1.5 mm ²	21.1	303	577

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
107158	2x2x2.5 mm ²	13.2	87	189
107159	3x2x2.5 mm ²	14.0	129	250
107160	4x2x2.5 mm ²	15.4	170	314
107161	5x2x2.5 mm ²	17.2	212	388
107162	6x2x2.5 mm ²	18.7	253	454
107164	8x2x2.5 mm ²	20.0	336	574
107166	10x2x2.5 mm ²	23.3	419	736
107168	12x2x2.5 mm ²	24.4	502	856

Specifications may vary depending on technical modifications.