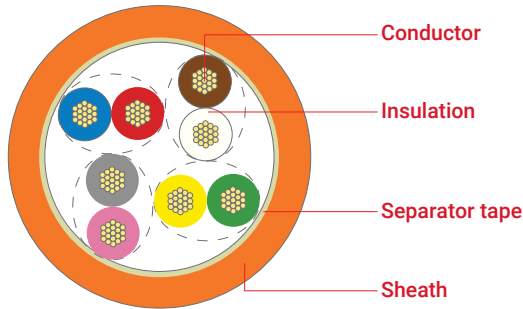




Cable structure



Conductor
Stranded copper wire
Class 5, IEC 60228

Insulation
Halogen-free, cross-linked insulation,
In compliance with DIN 47100 insulation colour coding
EI8 EN 50363-5

Separator tape
Pet tape min. 100% coverage
Fibreglass 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). 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]
105104	2x2x0.75 mm ²	8.7	25	73
105105	3x2x0.75 mm ²	9.6	37	103
105106	4x2x0.75 mm ²	10.5	50	125
105107	5x2x0.75 mm ²	11.5	62	150
105108	6x2x0.75 mm ²	12.7	75	180
105110	8x2x0.75 mm ²	13.5	100	223
105112	10x2x0.75 mm ²	15.3	125	272
105114	12x2x0.75 mm ²	16.0	150	314

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
105122	2x2x1 mm ²	9.8	33	95
105123	3x2x1 mm ²	10.3	50	123
105124	4x2x1 mm ²	11.3	66	150
105125	5x2x1 mm ²	12.6	83	187
105126	6x2x1 mm ²	13.8	100	221
105128	8x2x1 mm ²	14.7	133	275
105130	10x2x1 mm ²	16.9	166	344
105132	12x2x1 mm ²	17.7	199	398

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
105140	2x2x1.5 mm ²	11.6	50	130
105141	3x2x1.5 mm ²	12.5	74	176
105142	4x2x1.5 mm ²	13.7	99	220
105143	5x2x1.5 mm ²	15.0	124	264
105144	6x2x1.5 mm ²	16.6	149	317
105146	8x2x1.5 mm ²	17.7	199	398
105148	10x2x1.5 mm ²	20.1	249	487
105150	12x2x1.5 mm ²	21.0	299	566

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
105158	2x2x2.5 mm ²	13.1	83	180
105159	3x2x2.5 mm ²	13.9	124	241
105160	4x2x2.5 mm ²	15.3	166	305
105161	5x2x2.5 mm ²	17.1	207	378
105162	6x2x2.5 mm ²	18.6	249	443
105164	8x2x2.5 mm ²	19.9	332	562
105166	10x2x2.5 mm ²	23.2	415	723
105168	12x2x2.5 mm ²	24.3	498	843

Specifications may vary depending on technical modifications.