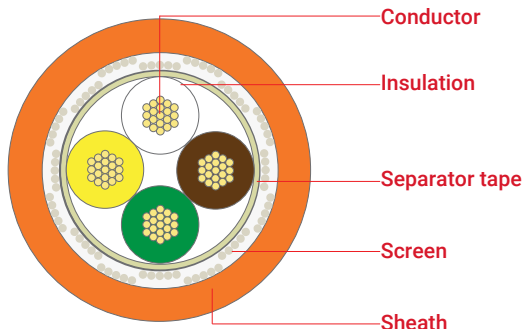




Cable structure



- Stranded copper wire
Class 5, IEC 60228
- Halogen-free, cross-linked insulation,
In compliance with DIN 47100 insulation colour coding
E18 EN 50363-5
- Pet tape min. 100% coverage
- Fibreglass tape min. 100% coverage
- Al-Pet tape min. 100% coverage
- Tinned braided copper wire
- 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 foil and 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.

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	0.75 mm ² max.	26.0 Ω/km
	1.0 mm ² max.	19.5 Ω/km
	1.5 mm ² max.	13.3 Ω/km
	2.5 mm ² max.	7.98 Ω/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]
104104	2x0.75 mm ²	6.2	19	50
104105	3x0.75 mm ²	6.7	26	62
104106	4x0.75 mm ²	7.2	32	73
104107	5x0.75 mm ²	7.8	39	89
104108	6x0.75 mm ²	8.4	46	104
104109	7x0.75 mm ²	8.4	52	109
104110	8x0.75 mm ²	9.0	59	123
104111	9x0.75 mm ²	10.1	66	144
104112	10x0.75 mm ²	10.8	73	160
104114	12x0.75 mm ²	11.1	86	179

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
104122	2x1 mm ²	6.8	23	60
104123	3x1 mm ²	7.1	32	71
104124	4x1 mm ²	7.7	41	87
104125	5x1 mm ²	8.3	50	104
104126	6x1 mm ²	9.0	59	125
104127	7x1 mm ²	9.0	67	131
104128	8x1 mm ²	10.1	77	158
104129	9x1 mm ²	10.9	86	174
104130	10x1 mm ²	11.6	94	189
104132	12x1 mm ²	12.0	111	216

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
104140	2x1.5 mm ²	7.8	33	81
104141	3x1.5 mm ²	8.2	45	96
104142	4x1.5 mm ²	8.9	59	118
104143	5x1.5 mm ²	10.1	71	153
104144	6x1.5 mm ²	10.9	85	181
104145	7x1.5 mm ²	10.9	98	190
104146	8x1.5 mm ²	11.7	112	214
104147	9x1.5 mm ²	12.9	124	245
104148	10x1.5 mm ²	13.8	137	268
104150	12x1.5 mm ²	14.2	163	306

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
104158	2x2.5 mm ²	8.6	49	104
104159	3x2.5 mm ²	9.0	71	128
104160	4x2.5 mm ²	10.3	92	169
104161	5x2.5 mm ²	11.2	114	207
104162	6x2.5 mm ²	12.3	136	252
104163	7x2.5 mm ²	12.3	157	268
104164	8x2.5 mm ²	13.3	178	304
104165	9x2.5 mm ²	14.3	199	335
104166	10x2.5 mm ²	15.4	223	373
104168	12x2.5 mm ²	15.9	264	431

Specifications may vary depending on technical modifications.