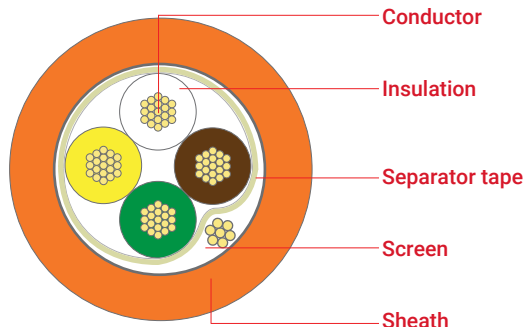




Cable structure



- Stranded copper wire
Class 5, IEC 60228
- Halogen-free, cross-linked insulation,
In compliance with DIN 47100 insulation colour coding
- Pet tape min. 100% coverage
- Fibreglass tape min. 100% coverage
- Stranded tinned copper drain wire
- Al-Pet tape min. 100% coverage
- 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]
103104	2x0.75 mm ²	5.8	17	48
103105	3x0.75 mm ²	6.0	23	55
103106	4x0.75 mm ²	6.8	29	71
103107	5x0.75 mm ²	7.4	36	86
103108	6x0.75 mm ²	8.0	42	101
103109	7x0.75 mm ²	8.0	48	105
103110	8x0.75 mm ²	8.6	54	122
103111	9x0.75 mm ²	9.7	60	148
103112	10x0.75 mm ²	10.4	67	154
103114	12x0.75 mm ²	10.7	79	174

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
103122	2x1 mm ²	6.2	21	55
103123	3x1 mm ²	6.7	29	69
103124	4x1 mm ²	7.3	38	84
103125	5x1 mm ²	7.9	46	101
103126	6x1 mm ²	8.6	54	121
103127	7x1 mm ²	8.6	62	127
103128	8x1 mm ²	9.6	71	154
103129	9x1 mm ²	10.4	79	175
103130	10x1 mm ²	11.2	88	184
103132	12x1 mm ²	11.5	104	208

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
103140	2x1.5 mm ²	7.4	29	78
103141	3x1.5 mm ²	7.7	42	91
103142	4x1.5 mm ²	8.5	54	114
103143	5x1.5 mm ²	9.6	66	147
103144	6x1.5 mm ²	10.5	79	175
103145	7x1.5 mm ²	10.5	91	185
103146	8x1.5 mm ²	11.3	104	213
103147	9x1.5 mm ²	12.4	116	249
103148	10x1.5 mm ²	13.4	129	262
103150	12x1.5 mm ²	13.8	154	300

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
103158	2x2.5 mm ²	8.2	46	101
103159	3x2.5 mm ²	8.6	66	124
103160	4x2.5 mm ²	9.9	87	165
103161	5x2.5 mm ²	10.8	108	203
103162	6x2.5 mm ²	11.7	128	241
103163	7x2.5 mm ²	11.7	149	257
103164	8x2.5 mm ²	12.8	170	303
103165	9x2.5 mm ²	13.9	190	348
103166	10x2.5 mm ²	15.0	211	366
103168	12x2.5 mm ²	15.5	253	425

Specifications may vary depending on technical modifications.