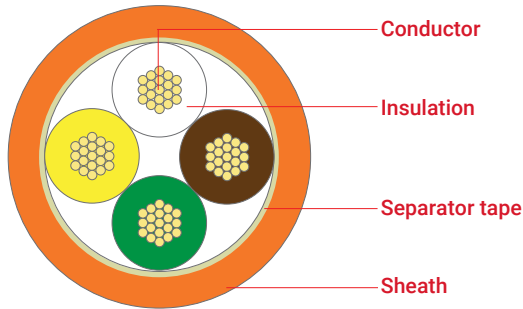




Cable structure



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

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.

Upon demand, following customised types with numeric codes can be manufactured.

LIHH-OZ: black core with white number codes

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

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]
101104	2x0.75 mm ²	5.7	12	42
101105	3x0.75 mm ²	6.0	19	50
101106	4x0.75 mm ²	6.8	25	66
101107	5x0.75 mm ²	7.3	31	79
101108	6x0.75 mm ²	7.9	37	94
101109	7x0.75 mm ²	7.9	43	99
101110	8x0.75 mm ²	8.5	50	114
101111	9x0.75 mm ²	9.6	56	140
101112	10x0.75 mm ²	10.3	62	147
101114	12x0.75 mm ²	10.6	75	166

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
101122	2x1 mm ²	6.1	16	49
101123	3x1 mm ²	6.6	25	62
101124	4x1 mm ²	7.2	33	77
101125	5x1 mm ²	7.9	41	96
101126	6x1 mm ²	8.5	50	114
101127	7x1 mm ²	8.5	58	120
101128	8x1 mm ²	9.6	66	149
101129	9x1 mm ²	10.3	75	167
101130	10x1 mm ²	11.1	83	176
101132	12x1 mm ²	11.5	100	204

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
101140	2x1.5 mm ²	7.3	25	71
101141	3x1.5 mm ²	7.7	37	86
101142	4x1.5 mm ²	8.4	49	107
101143	5x1.5 mm ²	9.6	62	142
101144	6x1.5 mm ²	10.4	74	168
101145	7x1.5 mm ²	10.4	87	177
101146	8x1.5 mm ²	11.2	99	206
101147	9x1.5 mm ²	12.4	111	245
101148	10x1.5 mm ²	13.3	124	254
101150	12x1.5 mm ²	13.7	149	292

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
101158	2x2.5 mm ²	8.1	41	94
101159	3x2.5 mm ²	8.5	62	117
101160	4x2.5 mm ²	9.8	82	158
101161	5x2.5 mm ²	10.7	103	195
101162	6x2.5 mm ²	11.6	124	234
101163	7x2.5 mm ²	11.6	144	250
101164	8x2.5 mm ²	12.7	165	295
101165	9x2.5 mm ²	13.8	186	340
101166	10x2.5 mm ²	14.9	207	357
101168	12x2.5 mm ²	15.4	248	416

Specifications may vary depending on technical modifications.