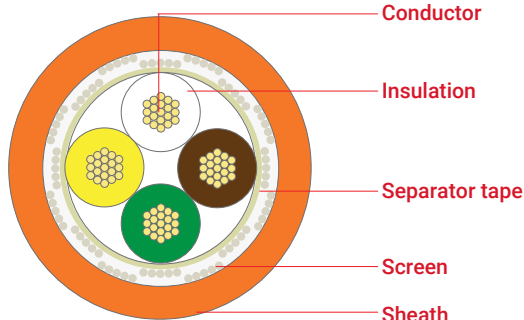




Cable structure



- Conductor**
Stranded copper wire
Class 5, IEC 60228
- Insulation**
Halogen-free, cross-linked insulation,
In compliance with DIN 47100 insulation colour coding
E18 EN 50363-5
- Separator tape**
Pet tape min. 100% coverage
Fibreglass tape min. 100% coverage
- Screen**
Tinned braided copper wire
- 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 ambient electromagnetic interference by its 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.

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

LIHCH-OZ: black core with white number codes

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.	200 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]
102104	2x0.75 mm ²	6.2	19	51
102105	3x0.75 mm ²	6.6	27	62
102106	4x0.75 mm ²	7.2	33	75
102107	5x0.75 mm ²	7.8	41	92
102108	6x0.75 mm ²	8.4	48	108
102109	7x0.75 mm ²	8.4	55	112
102110	8x0.75 mm ²	9.0	61	128
102111	9x0.75 mm ²	10.1	69	157
102112	10x0.75 mm ²	10.8	76	164
102114	12x0.75 mm ²	11.1	89	183

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
102122	2x1 mm ²	6.8	25	62
102123	3x1 mm ²	7.1	33	73
102124	4x1 mm ²	7.7	43	90
102125	5x1 mm ²	8.3	52	108
102126	6x1 mm ²	9.0	61	128
102127	7x1 mm ²	9.0	69	134
102128	8x1 mm ²	10.0	79	162
102129	9x1 mm ²	10.8	88	184
102130	10x1 mm ²	11.6	99	196
102132	12x1 mm ²	11.9	116	221

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
102140	2x1.5 mm ²	7.8	34	83
102141	3x1.5 mm ²	8.1	47	97
102142	4x1.5 mm ²	8.9	61	121
102143	5x1.5 mm ²	10.1	75	158
102144	6x1.5 mm ²	10.9	88	185
102145	7x1.5 mm ²	10.9	100	195
102146	8x1.5 mm ²	11.7	115	225
102147	9x1.5 mm ²	12.8	128	262
102148	10x1.5 mm ²	13.8	143	277
102150	12x1.5 mm ²	14.2	168	316

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
102158	2x2.5 mm ²	8.6	52	108
102159	3x2.5 mm ²	9.0	73	131
102160	4x2.5 mm ²	10.3	95	174
102161	5x2.5 mm ²	11.1	117	210
102162	6x2.5 mm ²	12.3	140	259
102163	7x2.5 mm ²	12.3	160	275
102164	8x2.5 mm ²	13.2	182	316
102165	9x2.5 mm ²	14.3	205	364
102166	10x2.5 mm ²	15.4	227	382
102168	12x2.5 mm ²	15.9	269	441

Specifications may vary depending on technical modifications.