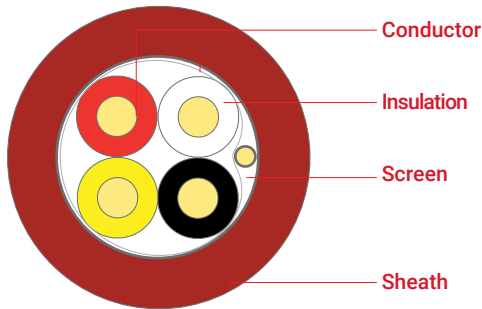




Cable structure



Electrolytic copper wire

- HFFR, in compliance with DIN VDE 0815 insulation colour coding
- 70°C EN 50290-2-26, HJ2 DIN VDE 0207-23
- Pet tape min. 100% coverage
- Tinned copper drain wire
- Al-Pet tape min. 100% coverage
- HFFR, RAL 3000 Red
- 70°C EN 50290-2-27, HM2 DIN VDE 0207-24

Application

Halogen Free insulated and sheathed cable range is used for signal and data transmission in fixed interior installations in dry or wet areas. The cable is protected against ambient electromagnetic interference by its static screen. Used between the control panel and detectors, buttons and field control modules in the fire alarm system. 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.

Standards TSE K 173, DIN VDE 0815

Fire performance

- Vertical flame propagation EN 60332-1-2
- Corrosive gas EN 60754-1/2
- Smoke density EN 61034-2

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
Loop resistance		
	Ø 0.60 mm max.	130 Ω/km
	Ø 0.80 mm max.	73.2 Ω/km
	Ø 1.0 mm max.	44.4 Ω/km
	1.0 mm ² max.	36.2 Ω/km
	1.5 mm ² max.	24.2 Ω/km
	2.5 mm ² max.	14.8 Ω/km
Insulation resistance	min.	100 MΩ x km
Capacitance	max.	100 nF/km
Capacity imbalance	max.	300 pF/100 m
Test voltage		800 Vac core/core
		800 Vac core/screen
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]
110097	1x2x0.80 mm+0.80 mm	5.3	14	38
110098	2x2x0.80 mm+0.80 mm	5.9	23	57
110099	3x2x0.80 mm+0.80 mm	7.9	32	81
110100	4x2x0.80 mm+0.80 mm	8.6	42	98
110101	5x2x0.80 mm+0.80 mm	9.4	51	116
110102	6x2x0.80 mm+0.80 mm	10.3	60	136
110104	8x2x0.80 mm+0.80 mm	10.9	79	166
110106	10x2x0.80 mm+0.80 mm	12.8	97	215

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
110135	1x2x1.0 mm+0.80 mm	5.9	19	48
110136	2x2x1.0 mm+0.80 mm	6.7	33	75
110137	3x2x1.0 mm+0.80 mm	9.0	47	106
110138	4x2x1.0 mm+0.80 mm	9.9	61	132

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
110173	1x2x1.0 mm ² +0.80 mm	6.4	22	56
110174	2x2x1.0 mm ² +0.80 mm	7.3	40	89
110175	3x2x1.0 mm ² +0.80 mm	9.9	59	128
110176	4x2x1.0 mm ² +0.80 mm	10.9	77	159

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
109211	1x2x1.5 mm ² +0.80 mm	7.3	30	72
109212	2x2x1.5 mm ² +0.80 mm	8.3	56	119
109213	3x2x1.5 mm ² +0.80 mm	11.6	83	173
109214	4x2x1.5 mm ² +0.80 mm	13.2	109	230

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]
110230	1x2x2.5 mm ² +0.80 mm	8.1	46	95
110231	2x2x2.5 mm ² +0.80 mm	9.3	89	160
110232	3x2x2.5 mm ² +0.80 mm	13.5	131	252
110233	4x2x2.5 mm ² +0.80 mm	14.8	173	316

Specifications may vary depending on technical modifications.