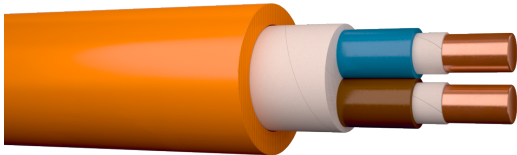


## Fire resistant cables

# FIRETUF FRHF 300/500 V


**Afumex®**


### Application

Fire resistant, halogen free cables, where the highest demands on reliability during and after the fire tested against the highest standards of fire resistance). Suitable for both indoor and outdoor use if the cable is protected against direct sunlight. Suitable for installations where there are demands on function during and after fire in, for example, emergency lighting, fire alarm systems and alarm systems. Smoke in case of fire is limited, transparent and non-harmful to electronic equipment.

### Alternative Product Name

FI-N05XZ1-U

### Flame retardance

EN 60332-3 - Tests on electric and optical fibre cables under fire conditions. Part 3: Test for vertical flame spread of vertically-mounted bunched wires or cables.

### Approval

CE

### Standard

IEC 60228  
IEC 60502-1 (in applicable parts)  
IEC 60227-4 (in applicable parts)  
SS-EN 60754-1, -2  
SS-EN 61034-1, -2  
HD 308 S2

Conductor standard  
Construction standard  
Construction standard  
Corrosive gases  
Smoke density  
Color marking of conductors

### Construction

Cable Shape  
Conductors  
Conductor Insulation  
Filler  
Marking of cores

Round  
Solid round copper acc. IEC 60228 class 1  
Mica + XLPE  
Thin paper or polyester tape  
2-core: blue, brown  
3-core: green/yellow, blue, brown  
4-core: green/yellow, brown, black, grey  
5-core: green/yellow, blue, brown, black, grey  
Halogen free compound, orange  
FIRETUF FRHF 500V 3G1,5 EN 50200 (90) "Date", metre marked

Outer Sheath  
Example of marking on sheath

### Temperature

Maximum operating Temperature  
Temperatures at installation [°C]

90 °C  
Lowest cable temperature during installation -15 °C, below 0 °C special precaution shall be taken.

### Features

Fire Resistance

EN 50200 / EN 50362 (90 min 830°C)  
IEC 60331-1, -2 (90 min 830°C)

Bending radius

At fixed mounting: 5 x D  
When installing: 10 x D

Conductors and screen area [mm <sup>2</sup> ]	Standard delivery length [m]	Delivery Package	EAN/GTIN number	SAP Number
2x1,5	500	K6	6410004202128	20098137
2x2,5	500	K6	6410004202135	20098037
3G1,5	100		6410004277218	20154191
3G1,5	500	K6	6410004203224	20098036
3G1,5	500	K6M	-	20114646
3G2,5	100		6410004277232	20154197
3G2,5	500	K6	6410004203231	20098035
3G2,5	500	K6M	-	20114647
4x2,5	500	K7	-	20098038
4G1,5	500	K6	6410004203613	20098039
4G2,5	500	K7	6410004203620	20098040
5x1,5	500	K7	-	20098042
5x2,5	400	K6M	-	20114649
5x2,5	500	K7	-	20098044
5G1,5	100		6410004277515	20154193
5G1,5	400	K6M	-	20114648
5G1,5	500	K7	6410004203729	20098041
5G2,5	50		6410004277539	20154194
5G2,5	500	K6M	-	20114650
5G2,5	500	K7	6410004203736	20098043

Conductors and screen area [mm <sup>2</sup> ]	Diameter over sheath [mm]	Cable weight [kg/km]	Min. Bending radius at final installation [mm]	Min. Bending radius during installation [mm]	Resistance [Ω/km]
2x1,5	10	100	50	100	12,1
2x2,5	10,5	130	60	110	7,41
3G1,5	9,4	110	60	110	12,1
3G2,5	10,1	140	70	120	7,41
4G1,5	10,5	136	70	120	12,1
4G2,5	11,3	178	70	130	7,41
5G1,5	11,4	167	70	130	12,1
5G2,5	12,3	219	80	140	7,41
4x2,5	11,339	190	70	130	7,41
5x1,5	11,557	180	70	130	12,1