

## Fire Resistant Communication Cables



Paired communications cables designed for use on critical warning and emergency telephone circuits. These cables maintain signal transmission during a fire and meet the requirements of IEC 60331-21.

The cables are Low Smoke Halogen Free throughout and incorporate an aluminium foil screen to prevent electrical interference making them ideal for use in airports, hospitals, railway networks and public areas.

### Technical Information

Voltage Rating:	500V
Conductor Resistance:	36.6 ohm/km
Capacitance Unbalanced:	200pF/100m
Bending Radius:	6 x overall diameter
Fire Resistant:	IEC 60331-21, DIN VDE FE180/E30
Flame Retardant:	IEC 60332-3-24 Cat C
Halogen Emission:	IEC 60754-2, BS EN 50267
Smoke Emission:	IEC 61034-2, BS EN 50268

### Construction

Solid copper wire conductors, fire barrier insulation, cores twisted into pairs, aluminium foil screen and 0.8mm drain wire, LSHF sheath – red or orange.

Part No.	Pairs x Size mm	Weight kg/km	O/D mm
31000502HFxx	2 x 2 x 0.8	74	7.4
31000504HFxx	4 x 2 x 0.8	127	10.8
31000508HFxx	8 x 2 x 0.8	300	16.9
31000512HFxx	12 x 2 x 0.8	336	18.5
31000516HFxx	16 x 2 x 0.8	426	20.1
31000520HFxx	20 x 2 x 0.8	529	22.2
31000532HFxx	32 x 2 x 0.8	859	29.1
31000540HFxx	40 x 2 x 0.8	1094	34.2
31000552HFxx	52 x 2 x 0.8	1280	37.3

To show the colour required please replace xx in the part number with:

03 Red      08 Orange

Steel armoured versions are also available on request

31000502HF03





## Fire Alarm Cable Standard & Enhanced

It is now recognised that in some buildings the continued functioning or circuit integrity of some cables is essential in providing sufficient time for evacuation. The requirements divide 'soft skin' cables into 2 groups, Standard and Enhanced.

The 'enhanced' versions shown below are suitable for installation where evacuation may be delayed, for example in high-rise buildings without sprinklers and hospitals. The 'enhanced' group of cables offer a viable alternative to MICC (Mineral Insulated Copper Clad) in many applications with the benefit of faster installation and easier routing.

### 38701502E



#### Standard

##### Construction

Solid plain copper conductor, flame retardant Low Smoke Halogen Free insulation. Metallic barrier tape with copper earth-wire maintaining longitudinal contact. Low Smoke Halogen Free sheath.

##### Technical Information

##### Conductors:

Copper wire to BS 6360 or IEC 60228  
300/500V

##### Voltage Rating:

IEC 60331: 3 hours at 750°C, BS 6387 Cat. C: 3 hours at 950°C

##### Resistance to Fire Alone:

BS 6387 Cat. W: 15 mins at 650°C, plus 15 mins with water spray

##### Resistance to Fire with Water:

BS 6387 Cat. Z: 15 mins at 950°C with mechanical shock

##### Resistance to Fire with Mechanical Shock:

##### Approvals:

BASEC, LPCB, BS7629: Part 1

BS 5839:1 2002 & EN 50200 Standard grade

Part No.	Cores x mm <sup>2</sup>	O/D mm	Weight kg/km	Gland	Clip
38701002E	2 E 1.0	7.9	80	G251	RCH34
38701003E	3 E 1.0	8.2	93	G251	RCH34
38701004E	4 E 1.0	8.7	120	G251	RCH37
38701502E	2 E 1.5	8.0	98	G251	RCH37
38701503E	3 E 1.5	8.3	121	G251	RCH43
38701504E	4 E 1.5	9.5	148	G252	RCH47
38702502E	2 E 2.5	9.1	139	G252	RCH47
38702503E	3 E 2.5	9.8	179	G252	RCH51
38702504E	4 E 2.5	11.3	205	G252	RCH54

Standard pack size 100m or 500m. Other sizes are available to order.

#### Enhanced

##### Construction

Plain copper conductor, circuit integrity Low Smoke Halogen Free insulation, metallic barrier tape with copper earth-wire maintaining longitudinal contact. Low Smoke Halogen Free sheath.

##### Standards:

BS 6387	C, W & Z
BS 5839 - 1	2002 Enhanced Grade
BS EN 50200	Classification PH 120
BS 8434-2:2003	120min duration
IEC 60332-3	Parts 1 & 3

Part No.	Core x mm <sup>2</sup>	O/D mm	Weight kg/km	Part No.	Core x mm <sup>2</sup>	Weight kg/km	O/D mm
387E01002E	2 E 1.0	7.9	80	387E01504E	4 E 1.5	9.5	148
387E01003E	3 E 1.0	8.2	93	387E02502E	2 E 2.5	9.1	139
387E01004E	4 E 1.0	8.7	120	387E02503E	3 E 2.5	9.8	179
387E01502E	2 E 1.5	8.0	98	387E02504E	4 E 2.5	11.8	205
387E01503E	3 E 1.5	8.3	121	387E04002E	2 E 4.0	12.1	269

### 387E01504E





## Firetuf Data & Coax

Firetuf Data is a group of high performance fire survival data cables manufactured by Draka and designed to carry on functioning even in the event of a fire. This allows safe monitoring of evacuation routes without putting lives at risk.

The twisted pair cables provide high data transmission rates and have been developed to mimic Cat-5 cabling as closely as possible. Increasingly popular with system integrators for BMS applications, the cables can be terminated using traditional LAN Insulation Displacement Connectors (IDC) making them ideal for use in horizontal backbone wiring systems in offices and public buildings.

Where video is carried the coax performs in a similar way to RG59 which is widely used in the CCTV sector. This allows continued monitoring of fire exits and evacuation routes in the event of a fire. BNC connectors part no. YFTCBC1# are available to suit Firetuf Coax.

Where people and property come first the Draka Firetuf Data cable range provides the ideal solution.

### Firetuf Data

#### Technical Information

- Design:** Generally to ISO/IEC 11801:95, EN 50173 95 and EN 50288-2-1. Suitable for standard Insulation Displacement Connector L.A.N. sockets. RS-485 10Mb/s
- Flame Retardant:** IEC 60332-1-2
- Smoke Emission:** IEC 61034-2
- Halogen Emission:** IEC 60754-2
- Fire Resistant:** BS 5839 Clause 26.2E >2hrs @ 950°C  
BS 6387 >3hrs @ 950°C  
IEC 60331-23 >3hrs @ 750°C  
BS EN 50200 >3hrs @ 950°C



Part No.	Draka Part No.	Type	Screen	Sheath	Weight kg/km	O/D mm
387FTD103	910234	1 Pair 0.63mm [22(1)AWG]	Foil & braid	LSHF red	48	6.8
387FTD203	910244	2 Pair 0.63mm [22(1)AWG]	Foil & braid	LSHF red	97	8.1
387FTD403	910245	4 Pair 0.63mm [22(1)AWG]	Foil & braid	LSHF red	122	10.4

### Firetuf Coax

#### Technical Information

- Design:** Generally to ISO/IEC 11801:95, EN 50173 95 and EN 50288-2-1. Suitable for standard insulation Displacement Connector L.A.N. sockets. RS-485 10Mb/s
- Flame Retardant:** IEC 60332-1-2
- Smoke Emission:** IEC 61034-2
- Halogen Emission:** IEC 60754-2
- Fire Resistant:** BS 5839 Clause 26.2E >2hrs @ 950°C  
BS 6387 >3hrs @ 950°C  
IEC 60331-23 >3hrs @ 750°C  
BS EN 50200 >3hrs @ 950°C



Part No.	Draka Part No.	Type	Screen	Sheath	Weight kg/km	O/D mm
387FTD5903	660096	75ohm coax 1/0.65mm	Double braid	LSHF red	110	9.1
YFTCBC1#	-	BNC Connector	-	-	-	-
YTC10	-	BNC Crimp tool	-	-	-	-

Due to the unique size of Firetuf Coax special BNC connectors have been designed as standard types do not fit.

387FTD403



387FTD5903

