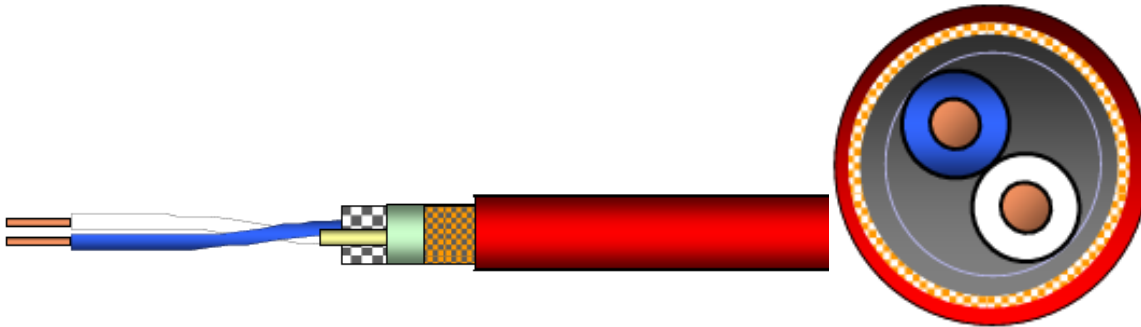


## ICS IE FIRETUF DATA 1P LSHF-FR

### IE SF/UTP 1x2xAWG22/1 cable with circuit integrity behavior



### Application

Campus wiring, Riser applications, Horizontal backbone wiring, Building control systems, Intelligent fire alarm systems. Circuit integrity structured wiring alarm cable, compatible with all known connection systems to EN 50173

IEEE 802.3: 10Base-T; (100Base-T <75m), IEEE 802.5 16 MB; ISDN; TPDDI; ATM RS485 (10Mbits)

### Standards

Generally to: ISO/IEC 11801: 95, EN 50173:95; EN 50288-1 for design/engineering only.

### Flame resistance

Low Smoke:	BSEN 20568, IEC 61034-2, BSEN 20568	
Halogen Free:	IEC 60754-1&2	
Flame Retardant:	IEC 60332-1, IEC 60332-3-24, BS4066 part 3, UL 1581 VW 1	
Circuit Integrity:	BS5839-1 2002 (clause 26.2e); BS8434-2; BSEN 50200, IEC60331	
	BS5839 enhanced 3 in 1 test	Passed
	Continued data operation @ 950°C	> 2 hours
	BS6387 CWZ	Passed
	BS EN 50200 (IEC60331)	>3 hours

### Certification

Approved by LU (London Underground) – Independently tested by BRE Global.  
 Fire resistant BS5839-1 (clause 26.2e); BS8434-2; BSEN 50200  
 Flame retardant BS4066 part 3; Smoke emission BSEN 20568  
 LUL-Flammability, smoke & fume 2-01001-002  
 LU STANDARD e4156 part 1 – Approval ref TLL-ENG-MATTS-0076 (dated 21/06/2007)

### Construction

Conductor	bare copper wire, Ø 0.65 mm (AWG 22)
Insulation	PE/Sil Rbr, Ø 1.7 mm
Twisting	2 cores to the pair
Cable lay up	1 pairs to the core
Fire protection wrapping	glass tape
Screen	stranded drain wire + Al-PET-foil + copper braid, tinned
Sheath	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, Ø 6.8 mm
Colour	red RAL 3000
Marking	Firetuf Data (910234) 0.65mm x 1 pair BS5839 + 26.2e Draka UK (then 105 spaces then) Firetuf Data (910234) 0.65mm x 1 pair BS5839 + 26.2e Draka UK DD/MM/YY XXXX #####m

### Mechanical properties

## ICS IE FIRETUF DATA 1P LSHF-FR

Bending radius	without load	≥ 27.5 mm
	with load	≥ 55 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

### Electrical properties

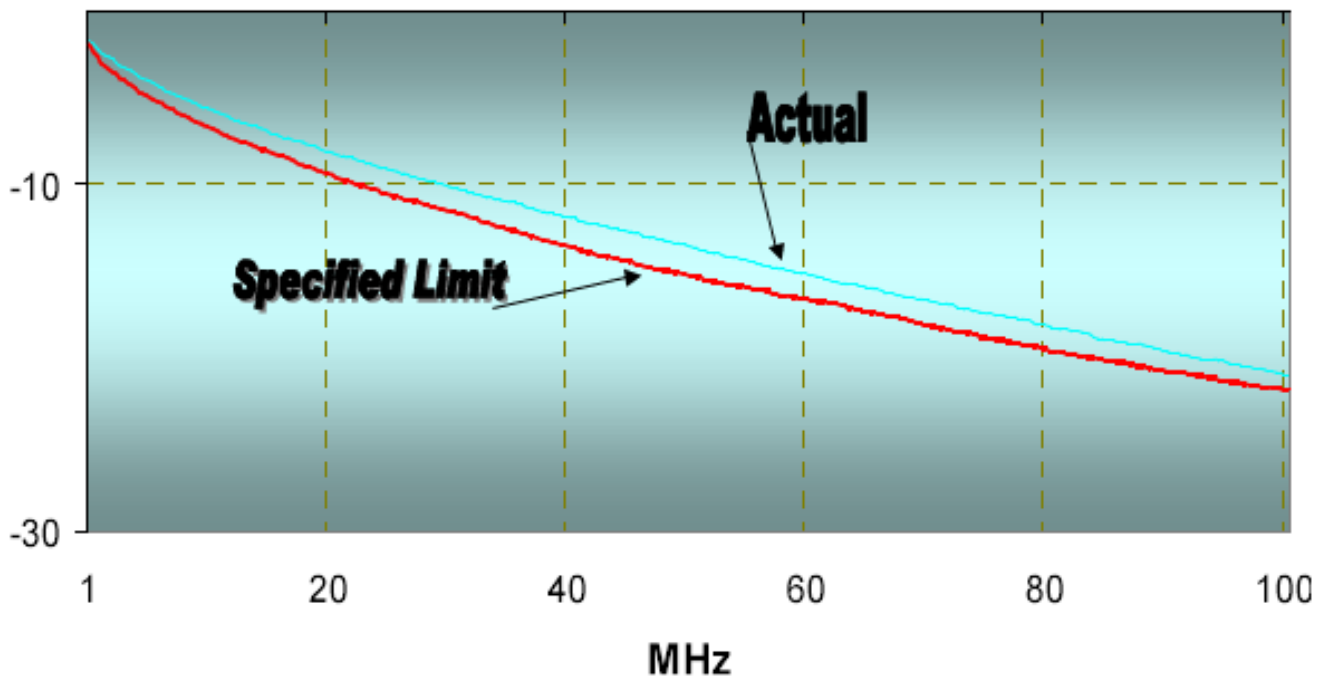
at 20°C ± 5°C

Loop resistance		≤ 110 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V) 1 minute	≥ 2000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. nF/km
Capacitance unbalance	(pair/ground)	≤ 1600 pF/km
Characteristic impedance	(at 10) MHz	(100 ± 15) Ω
Nominal velocity of propagation		ca. 57 %
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
	at 10 MHz	5 mΩ/m

### Electrical data (nominal)

acc. to Cat.5(95) (at 20°C)

#### Attenuation



### Technical data

## ICS IE FIRETUF DATA 1P LSHF-FR

Part number	Cable type DIN/VDE	Product name	Outer diameter	Fire load		Weight kg/km	Copper content	Tensile force
			mm	MJ/km	kWh/m			N
1010851	J-2Y/2G(St)CH 1x2x0.65 -100	ICS IE FIRETUF DATA 1P LSHF-FR	6.8			49.7	19.8	100

[PRODUCT CODE TABLE]

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