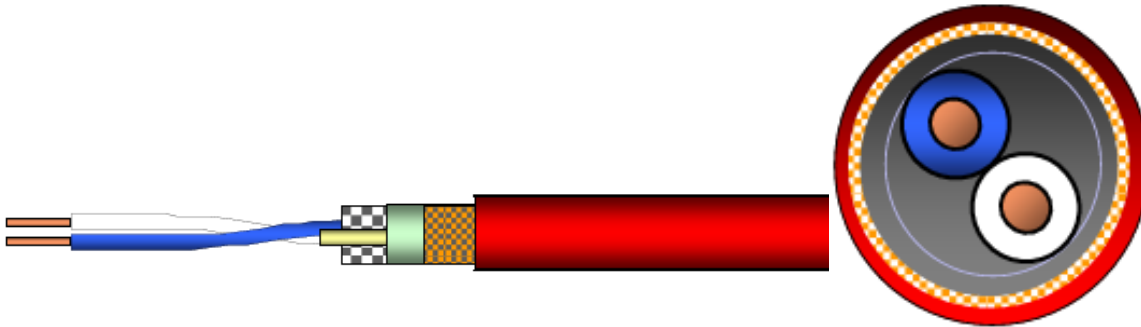


ICS IE FIRETUF DATA 1P LSHF-FR

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 (10Mbps)

Standards

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

Flame resistance

Low Smoke:	BSEN 50268, IEC 61034-2,	
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

Bending radius	without load	≥ 27.5 mm
----------------	--------------	-----------

ICS IE FIRETUF DATA 1P LSHF-FR

	with load	≥ 55 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

Electrical properties

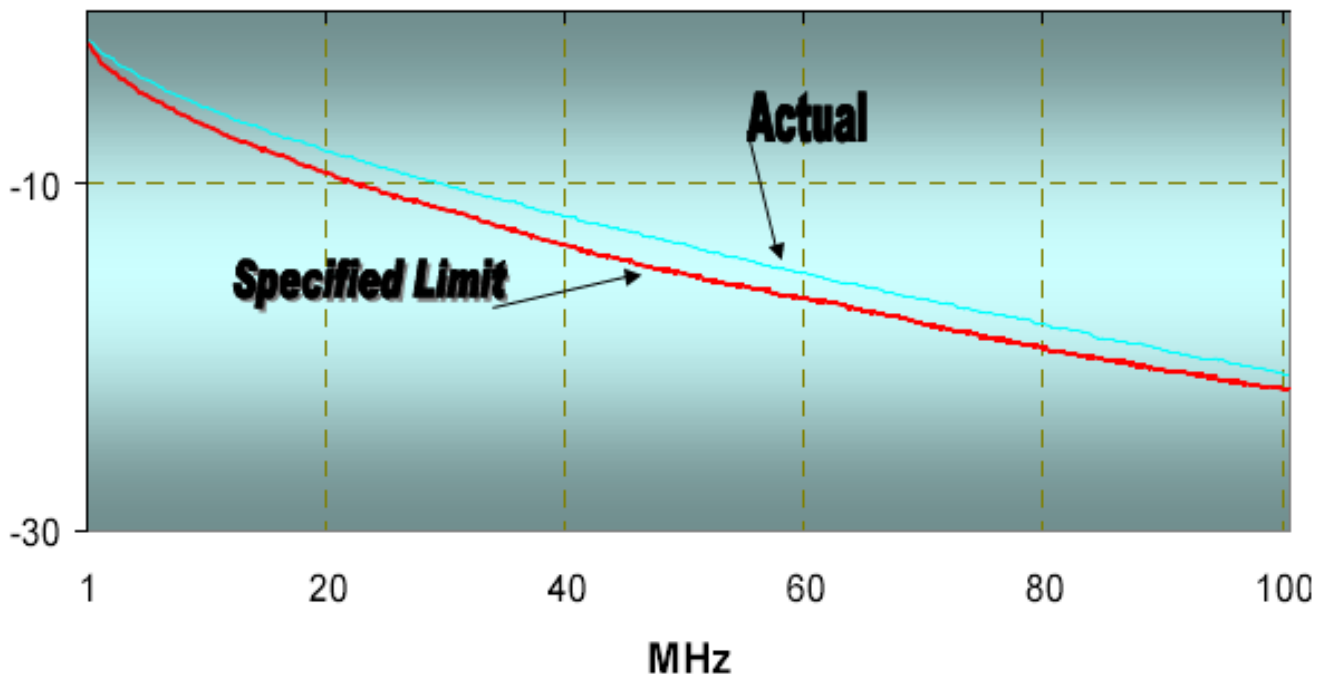
at 20°C ± 5°C

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	Copper content	Tensile force
			mm	MJ/km	kWh/m	kg/km		N
60018006	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]

© PRYSMIAN GROUP 2011, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.