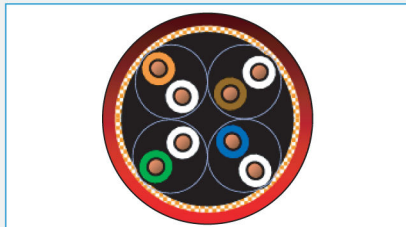
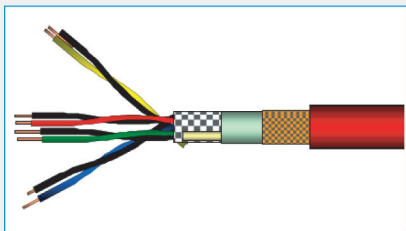


# IE Firetuf™ DATA 1P, 2P or 4P LSZH-FR

IE SF/UTP 4x2xAWG22/1 cable with circuit integrity behaviour



## Application

- Primär (Campus), Sekundär (Riser), Tertiär (Horizontal)
- IEEE 802.3: 10Base-T; 100Base-T;
- IEEE 802.5 16 MB; ISDN; TPDDI; ATM
- RS485 (10Mbits)
- Circuit integrity structured wiring alarm cable, compatible with all known connection systems to EN 50173, part of intelligent building technology

## Standards

Generally to: ISO/IEC 11801: 95, IEC 61156; EN 50173:95; EN 50288-1

## Fire Rating

- IEC 60332-1, IEC 60754-1&2, IEC 61034-2, IEC 60332-3-24, UL 1581 VW 1, BS5839-1 (clause 26.2e), BS8434-2, BSEN 50200, BS4066 part 3, BSEN 20568, IEC60332-3-24, EN50399

## Certification

- Approved to LUL - 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
- LUL STANDARD e4156 part 1 - approved

## Construction

<b>Conductor</b>	bare copper wire, Ø 0.65 mm (AWG 22)
<b>Insulation</b>	PE/Sil Rbr, Ø 1.7 mm
<b>Twisting</b>	2 cores to the pair
<b>Cable lay up</b>	1, 2 or 4 pairs to the core
<b>Fire protection wrapping</b>	glass tape
<b>Screen</b>	copper braid, tinned
<b>Sheath</b>	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, Ø 10.5 mm
<b>Colour</b>	red RAL 3000
<b>Outer Diameter</b>	Nom. 6.8(1 Pair) - 10.5 (4 Pair) mm
<b>Weight</b>	Nom. 48(1 Pair) - 122 (4 Pair) kg/km
<b>Tensile force N</b>	100

## Mechanical Properties

<b>Bending radius</b>	without load	≥ 42 mm
	with load	≥ 84 mm
<b>Temperature range</b>	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

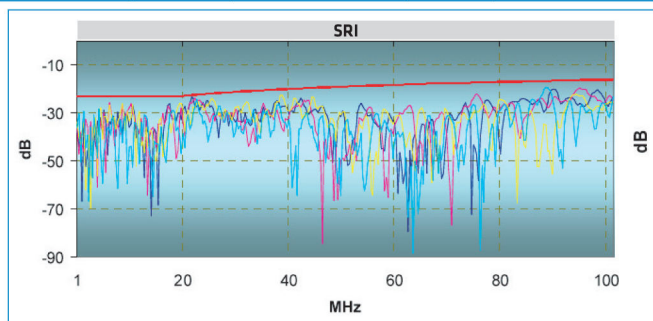
## Fire Tests BC 5839: 2002 & IEC60331

<b>BS5839 enhanced 3 in 1</b>	passed
<b>Continued Data Operation @ 950°</b>	> 2 Hours
<b>BS6387</b>	> 3 Hours
<b>BS EN 50200 (IEC60331)</b>	> 3 Hours

## Electrical Properties at 20°C ± 5°C

<b>Loop resistance</b>	-	≤ 110 Ω/km
<b>Resistance unbalance</b>	-	≤ 2%
<b>Insulation resistance</b>	(500 V) 1 minute	≥ 2000 MΩ*km
<b>Mutual capacitance</b>	at 800 Hz	Nom. 60 nF/km
<b>Capacitance unbalance</b>	(pair/ground)	≤ 1600 pF/km
<b>Characteristic impedance</b>	(at 10) MHz	(100 ± 15) Ω
<b>Nominal velocity of propagation</b>	-	ca. 57 %
<b>Test voltage</b>	(DC, 1 min) core/core and core/screen	1000 V
<b>Transfer Impedance</b>	at 10 MHz	5 mΩ/m

## Electrical Data (Nominal) acc. to Cat.5 (at 20°C)



## Ordering Information

P/N	Product Description	P.U
1010853	J-2Y/2G(St)CH 4x2x0.65 -100, IE SF/UTP 4x2xAWG22/1 cable with circuit integrity behaviour, IE FIRETUF DATA 1P, 2P or 4P LSZH-FR	500mm/drum
1010851	J-2Y/2G(St)CH 1x2x0.65 -100, IE SF/UTP 4x2xAWG22/1 cable with circuit integrity behaviour, IE FIRETUF DATA 1P, 2P or 4P LSZH-FR	500mm/drum
1010852	J-2Y/2G(St)CH 2x2x0.65 -100, IE SF/UTP 4x2xAWG22/1 cable with circuit integrity behaviour, IE FIRETUF DATA 1P, 2P or 4P LSZH-FR	500mm/drum