

Fire Resistant SF-UTP CAT 5E LSZH



Caleb Cable Industrial Limited

Revision History

Part NO:	Price NO:
Prepared by: CXY	Date: 2015/8/5
Approved by:	Page: 1 of 1

Product Code: Fire Resistant SF-UTP CAT 5E LSZH

Product Description

Application:

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
 IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM
 IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

Reference Standard

ISO/IEC 11801: 2011; IEC61156-5:2009;
 EN50173; EN50288; TIA-568-C.2:2009

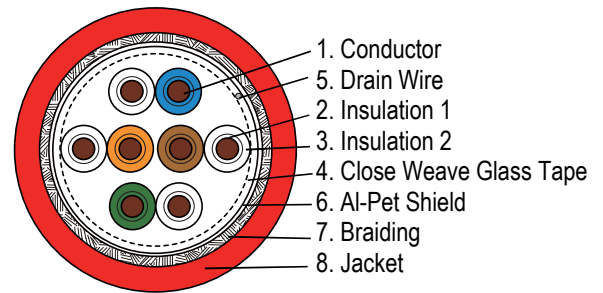
Multi-construction

4 Pair

Cable Construction

1. Conductor	Bare Copper
Construction(mm)	0.625±0.01
2. Insulation 1	HDPE
Insulation Dia.(mm)	0.92±0.08
Insulation color	Clear×8
3. Insulation 2	Silicon Rubber
Insulation Dia.(mm)	1.60±0.10mmx 2C Twist
Insulation color	Pair 1:Blue,White;Pair 2:Orange,White Pair 3:Green,White;Pair 4:Brown,White
4. Close Weave Glass Tape	>=115%
5. Drain wire	Tinned copper
Construction(mm)	T0.40±0.01
6. Al-Pet Shield (Al side inside)	>=115%
7. Braiding	Tinned copper
Construction(mm)	T0.12±0.008x24x7
coverage	72±5%
8. Jacket	LSZH
Dia.(mm)	10.0±0.20mm
Jacket Color	Red
Marking	
According to customer	
Packaging	
100M/Drum	
Label	

Design



Electrical Characteristics

Performance

Frequency (MHz)	Attenuation (dB/65m)	NEXT (dB)	PSNEXT (dB)	Return Loss (dB)
4.00	4.10	56.30	53.30	23.00
10.00	6.50	50.30	47.30	25.00
16.00	8.30	47.20	44.20	25.00
31.25	11.70	42.90	39.90	23.60
62.50	17.00	38.40	35.40	21.50
100.00	22.00	35.30	32.30	20.10

Frequency (MHz)	ELFEXT (dB/65m)	PSELFEXT (dB/65m)
4.00	+ 52.00	49.00
10.00	- 44.00	41.00
16.00	39.90	36.90
31.25	34.10	31.10
62.50	28.10	25.10
100.00	24.00	21.00

Note: The inspection will be according to ISO Class D/TIA Cat5E Perm.Link of Fluke at 65m due to the special construction;

Max.Conductor DC Resistance at 20°C (Ω/Km) <70.7
 Rated Temperature(°C) 60
 Velocity ratio 69%
 Impedance(Ω) 1-100MHz 100±15

Fire Resistant IEC60331-23 >3hrs@750°C
 Fire Resistant BS EN50200 >2hrs@950°C
 Fire Resistant BS EN50200 2000 PH120 120min

Fire Performance: IEC60332-1
 Smoke Density: IEC61034
 Halogen Free: IEC60754

