

## Category 5e SF/UTP LSZH

### Product Construction:

#### Conductors:

- 24 AWG stranded tinned copper
- 4 pairs

#### Insulation:

- Polyolefin

#### Color Code:

- See chart below

#### Overall Wrap:

- LSZH Flame Retardant Tape

#### Overall Shield:

- Polyester-backed aluminum foil (aluminum facing out)
- Tinned copper braid

#### Jacket:

- Low Smoke Zero-Halogen XL Polyolefin

### Applications:

- Category 5e SF/UTP construction is suitable for use in transit applications with flexible stranding, overall shield, and Low Smoke Zero Halogen XL Jacket
- IEEE 802.3: 1G BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

### Standard Compliances:

- ANSI/TIA 568C.2
- NFPA 130 fire & smoke emission
- ISO/IEC 11801 Ed. 2.2
- IEC 61156-6
- IEC 60332-3-24
- RoHS Directive 2011/65/EU

### Color Code Chart

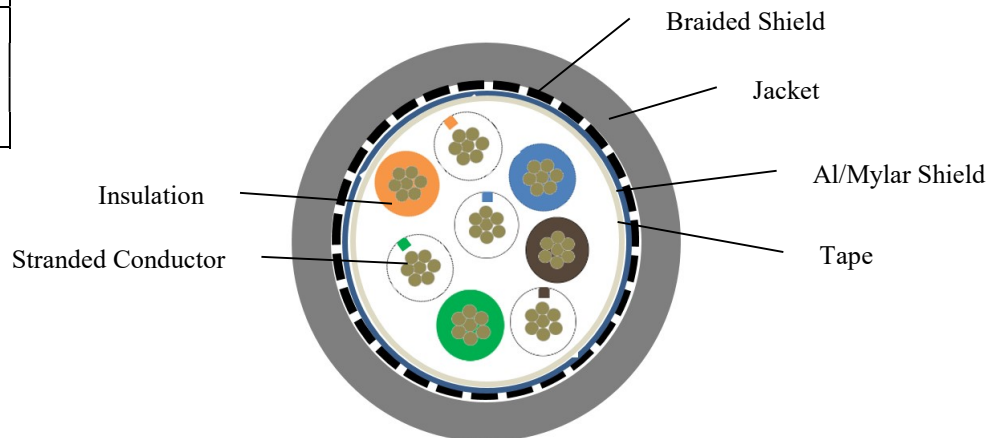
Pair No.	Color Combination
1	Blue-White
2	Orange-White
3	Green-White
4	Brown-White

### Packaging:

- 1000 ft. Spool

### Features:

- High performance of transmission
- Sweep frequency up to 200 MHz
- Overall metal braid and Al/mylar tape provide protection from EMI noise
- No halogen
- Less toxic
- More environmentally friendly





**Physical Data:**

Nominal Cable Diameter (mm)	6.98
Nominal Cable Weight (lbs/1000ft)	39.5
Nominal Insulated Conductor (mm)	1.10
Minimum Bend Radius (in)	>4X OD
Maximum Pulling Force (N)	<110
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-40 to +75
Cable cold bend (UL 444)	-20°C for 4h
Cold Impact (UL 444)	-30°C
Oil Resistant per EN 50306-4	96h @ 100°C

**Electrical Characteristics:**

Spark test	2.5 KV DC
AC leakage current through overall jacket	< 10mA (1.5KV AC)
Conductor DC resistance	< 9.5 Q /100m
Resistance unbalance	< 4%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	> 5000 MQ • km
Mutual capacitance	< 5.6 nF/100m
Characteristic Impedance (1-200 MHz)	100 +/- 15 ohms
Capacitance unbalance pair-to-ground	< 160 pF/100m

Frequency (MHz)	IL	NEXT	PS. NEXT	ACR*	PS. ACR*	ACRF	PS. ACRF	RL	Delay Skew
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m
1	2.0	65.3	62.3	62.9	59.9	63.8	60.8	20.0	45
4	4.1	56.3	53.3	51.4	48.4	51.8	48.8	23.0	
8	6.5	51.8	48.8	44.8	41.8	45.7	42.7	24.5	
10	8.2	50.3	47.3	42.5	39.5	43.8	40.8	25.0	
16	9.3	47.2	44.2	37.3	34.3	39.7	36.7	25.0	
20	10.4	45.8	42.8	34.7	31.7	37.8	34.8	25.0	
25	11.7	44.3	41.3	31.8	28.8	35.8	32.8	24.2	
31.25	17.0	42.9	39.9	28.8	25.8	33.9	30.9	23.3	
62.5	22.0	38.4	35.4	18.0	15.0	27.9	24.9	20.7	
100	28.1	35.3	32.3	8.9	N.A.	23.8	20.8	19.0	
150	32.4	32.7	29.7	N.A.	N.A.	20.3	17.3	17.5	
200 f	2.0	30.8	27.8	N.A.	N.A.	17.8	14.8	16.4	

Data are subject to change without notice.  
 Contact your customer service representative for latest information.