

RAPID TRANSIT & LOCOMOTIVE WIRE AND CABLE

Category 5e SF/UTP LSZH

Shielded

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

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

PRODUCT CONSTRUCTION

Conductor

- 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

STANDARD COMPLIANCES

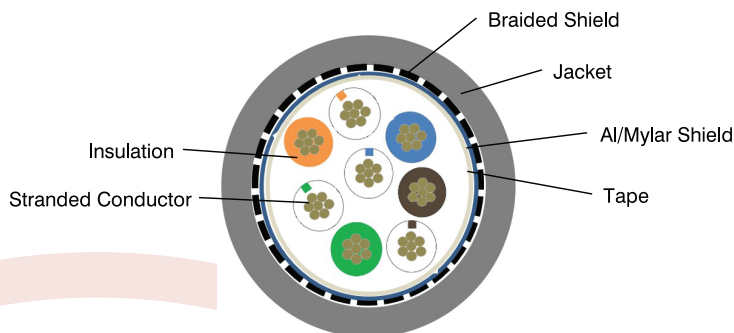
- ANSI/TIA 568C.2
- NFPA 130 fire & smoke emission
- ISO/IEC 11801 Ed. 2.2
- IEC 61156-6
- IEC 60332-3-24
- RoHS Directive 2011/65/EU

Packaging

- 1000 ft. Spool

COLOR CODE CHART

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



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	

»Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.

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



PITTSBURGH WIRE & CABLE INC.