

ELECTRICAL CHARACTERISTICS

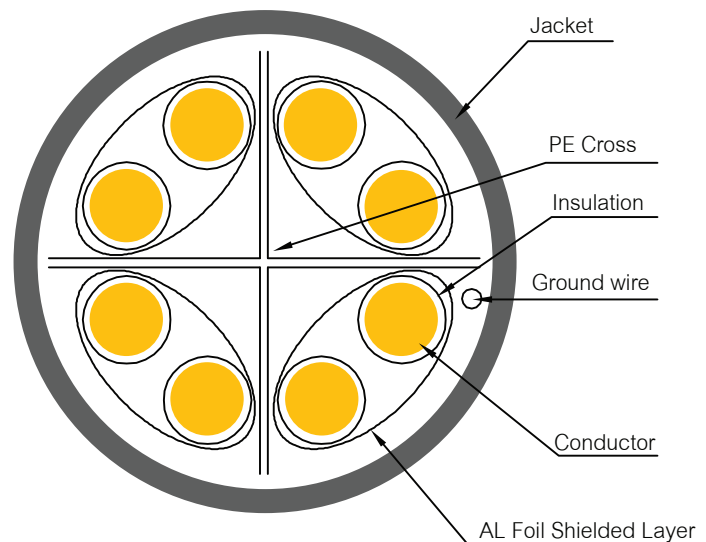
1. Rating Temp: 75 °C
2. D-C Resistance: 7.5 Ohm/1000M at 20 °C
3. Dielectric Strength: AC 0.75kv/m
4. Spark test: 2KV/0.15sec
5. Nominal impedance (OHMS): 100+15%
6. Pair-1P-Ground Capacitance Unbalance Max 350pf/100m
7. Propagation Delay Skew: 45nS/100M

COLOUR

1. BLUE*WHITE/BLUE
2. ORANGE*WHITE/ORANGE
3. GREEN *WHITE/GREEN
4. BROWN*WHITE/BROWN

PHYSICAL PROPERTIES

1. Tensile Strength test are before aging:
Sheath: > 1.41kg/mm
Insulation > 1.68kg/mm
2. Tensile Strength test are after aging:
Sheath > 85% Tensile Strength test are before aging
Insulation > 75%, Tensile Strength test are before aging
3. Elongation after aging: Sheath 50%
Elongation before aging Insulation > 75%
Elongation before aging



APPLICATION

10GBASE-T (IEEE 802.3an 10Gigabit Ethernet), 1000 BASE-T (IEEE 802.3ab Gigabit Ethernet), 100 BASE-TX (IEEE 802.3u Fast Ethernet), 10 BASE-T (IEEE 802.3 Ethernet) 155/622 Mbps and 1.2Gbps ATM, 4/16Mbps Token Ring, POE, 2.5G/5G Base-T (IEEE 802.3bz), POE+ (IEEE 802.3af, IEEE 802.3at) TP-PMD, TPDDI, ISDN, VOIP, Analog & Digital Voice, Digital & Analog Video, 4/16Mbps Token Ring, HD BaseT 2.0 standard, Baseband, Broadband.

STANDARD

ANSI/TIA-568-C.2 Category 6A, ANSI/TIA-568.2-D Category 6A, ISO/IEC 11801:2002 Class EA, ISO/IEC 11801:2017 Class EA, EN 50173-1 Category 6A, ICEA S-102-700 Category 6A, EN 50288-6-1, EN 50288-10-1, NEMA WC 66, IEC 61156-5, ASTM, D4566-98, ICE 60332-1, IEC 61034-2, IEC 60754-2, UL/CSA Listed CM, CMR, CMP and LSZH, ETL and 3P Verify to ANSI/TIA-568-C.2 CAT6 A, UL, RoHS Compliant.

CONSTRUCTION OF CABLE

CONDUCTOR	AWG	23 AWG
	MATERIAL	BARE COPPER
	CONDUCTOR SIZE	1*0.57+0.01mm
	MIN THICKNESS	0.22mm
INSULATION	AVG THICKNESS	0.20mm
	MATERIAL	HDPE
	DIAMETER	1.0+0.05mm
JACKET	AVG THICKNESS	0.60+0.1mm
Inner jacket	Material	Lead free ,FR-PVC , 6.00 mm.
	MATERIAL	LSZH
	DIAMETER	7.0+0.50mm
	COLOUR	BLACK
SHIELDING	AVG THICKNESS	0.025+0.005mm
	DIAMETER	AL Foil
	GROUND	BC

ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTY

Impedance	100+/-15Ω, 1MHz to 550 MHz
Mutual Capacitance	5.6nF Max/100 m
Capacitance, Unbalance	160pF Max/100 m
DC Resistance	6.65Ω Max/100 m
DC Resistance, Unbalance	4% Max
Insulated Resistance	5000 MΩ/Km
Dielectric Strength	1KV/min
Propagation Delay	534 ns/ 100 m Max @ 550MHz
Delay Skew	25 ns Max
Tensile Strength	110 N (25lbf)
Ultimate Breaking Strength	>400 N(90lbf)
Installation / Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 80°C
Minimum Bending Radius	Install 8 X Cable Diameter After Install 4 X Cable Diameter

TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	INSERTION LOSS (dB/100)	NEXT MIN. (dB)	PSNEXT MIN. (dB)	ACRF MIN. (dB)	PS.ACRF MIN. (dB)	PS ANEXT MIN. (dB)	PS AACRF (dB/100)	RL MIN(dB)
1	2.0	78.3	76.3	71.8	68.8	67.0	67.0	20.0
31.25	10.4	55.9	53.9	41.9	38.9	67.0	48.3	25.6
62.5	14.9	51.4	49.4	35.9	32.9	65.6	42.3	23.5
100	19.0	48.3	46.3	31.8	28.8	62.5	38.2	22.1
200	27.5	43.8	41.8	25.8	22.8	58.0	32.2	20.0
250	31.0	42.3	40.3	23.8	20.8	56.5	30.2	19.3
300	34.2	41.1	39.3	22.3	19.3	55.3	28.7	18.8
500	45.3	37.8	35.8	17.8	14.8	52.0	24.2	17.5
550	47.7	37.2	35.2	-	-	-	-	17.2
650	52.4	36.1	34.6	-	-	-	-	16.7

ORDER INFORMATION

PRODUCT	PART NUMBER
UTP CAT6A STP, LSZH	L-U6A-SJ-STP-LSZH