

LINK ULTRA CAT 6 SERIES

LINK Ultra Series is a new higher level of UTP products. Ultra Series is intend to horizontal cabling installation of high speed network and also suitable for high broadband of audio data and video. Ultra Series is design to serve our mission "Link for the perfect Cabling"

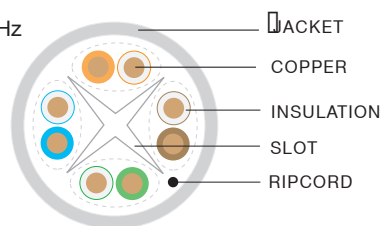
The applications for transmission speed of up to 2.4 Gbps exceed all proposed performance and bandwidth requirements for Category 6/Class E components and systems. It will support all today application such as Gigabit Ethernet(1000 Base T) and other LAN protocols, ATM all speed up to 2.4 Gbps, Broadband video (77 channel at 550 MHz). Intertek Testing Services also tested the LINK Ultra Category 6 Series for bit error rate to confirmed the products have pass the Giga Bit Non Error Rate.

LINK Ultra Cable is 4-pair UTP cable, that the performed exceed the Category 6 requirement to TIA/EIA-568-B.2-1 (JUNE20, 2002)

They comply with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000 Base T), 100 BASE-Tx, 10 BASE-T, 622 Mbps ATM, TP-PMD, ISDN, ANALOG (broadband, baseband), DIGITAL VIDEO, VOICE Over IP and future Structure Cabling System. Ultra CAT6 Cable have the performance better than CAT5 and CAT5E and they increased bandwidth and signal-to-noise margin.

SPECIFICATIONS

Conductors	□	□	:	23 AWG solid bare copper (24 AWG for Patch Cable)
Insulation	□	□	:	PE (Polyethylene), 0.99 mm. diameter
Filler slot	□	□	:	FRPE Isolator Separator
Jacket	□	□	:	FRPVC - CMR UL/NEC Rating : US-9116 (Plenum and LSZH - Flame Retardant & Low Smoke Zero Halogen Polymer Alloy : optional)
Cable diameter	□	□	:	6.40 mm.
Color	□	□	:	White (Gray optional)
Impedance	□	□	:	100 ohms ±15% from 1 MHz to 600 MHz
Propagation delay	□	□	:	536 ns/100 m. max. @ 250 MHz
Delay Skew	□	□	:	40 ns/100 m. max.
DC Resistance @ 20°C	□	□	:	66.58 ohm/Km., max
Normal Velocity of Propagation	:			Non - Plenum insulated 69 % □ Plenum FEP insulated 70 %
Mutual Capacitance	□	□	:	5.6 nF max./100m
Rating Temp Voltage	□	□	:	75°C, 300 volts
Operating Temperature	□	□	:	-20°C to 60°C
Storage Temperature	□	□	:	-20°C to 80°C
Standard	□	□	:	TIA/EIA-568-B.2-1, ISO/IEC11801 Class E



Part No.	UL/NEC Rating	Conductor Material	Jacket color	Diameter (mm.)	Packaging
□US-9116 □	CMR □	23 AWG Bare solid copper □	white (FRPVC) □	6.4 □	1,000ft./ Pull Box
□US-9116LSZH□	CMR-LSZH □	23 AWG Bare solid copper □	white (LSZH) □	6.4 □	1,000ft./ Pull Box
US-9116P □	CMP □	23 AWG Bare solid copper □	white (FRPVC)	6.4 □	1,000ft./ Pull Box
□US-9126	□ CM □	24 AWG Stranded Bare copper □	white (FRPVC) □	5.5 □	1,000ft./ Pull Box
□US-9136 (FTP)□	CMR □	23 AWG Bare solid copper □	white (FRPVC) □	6.4 □	1,000ft./ Pull Box

PERFORMANCE CHARACTERISTIC

* 1,000 feet = 305 Meter

Frequency (MHz)	ATT MAX.(dB/100m)	NEXT MIN.(dB)	ACR MIN.(dB)	PS.NEXT MIN.(dB)	PS.ACR MIN.(dB)	ELFEXT MIN.(dB/100m)	PS.ELFEXT MIN.(dB/100m)	R.L. MIN.(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	66.0	20.0
4	3.8	69.8	66.0	67.0	62.7	56.5	53.5	23.0
8	5.3	65.4	60.1	63.4	57.1	51.0	48.0	24.5
10	6.0	63.8	57.8	61.2	54.5	48.5	46.4	25.0
16	7.6	60.0	52.4	58.9	49.9	45.0	42.2	25.0
20	8.5	59.0	50.5	57.0	48.0	42.5	40.1	25.0
25	9.5	57.5	48.0	56.8	44.9	41.0	37.7	24.3
31.25	10.7	56.0	45.3	54.0	42.8	38.5	35.6	23.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	29.5	21.5
100	19.8	47.5	27.7	49.8	25.6	28.5	25.8	20.1
155	25.3	45.0	19.7	47.2	17.2	25.0	23.0	18.8
200	29.0	44.4	15.4	45.0	12.3	22.5	21.7	18.0
250	32.0	42.9	10.9	43.2	6.5	21.2	18.0	17.3
300	36.6	41.5	4.9	40.7	1.9	18.5	15.6	16.8
350	40.0	39.5	-	38.5	-	17.5	14.5	16.3
400	43.2	38.5	-	37.5	-	16.5	13.7	15.9
450	46.3	37.8	-	36.5	-	15.5	12.8	15.5
500	49.2	37.5	-	35.5	-	14.6	11.5	15.2
550	52.0	36.7	-	34.5	-	13.5	10.7	14.9
600	54.8	36.5	-	34.5	-	13.0	10.0	14.7