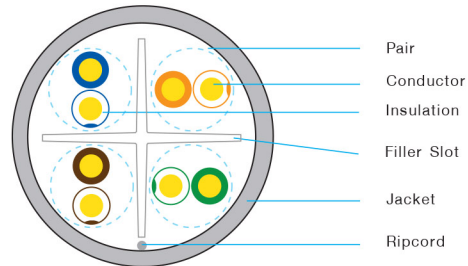


Category 6 Ultra (600MHz) U/UTP Cables



STANDARD

- ANSI/TIA-568.2-D Category 6
- ISO/IEC 11801:2017 Class E
- EN 50173-1 Category 6
- ICEA S-102-700 Category 6
- EN 50288-6-1, EN 50288-6-2, NEMA WC 66
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL Listed CM, CMR, CMP and LSZH
- ETL and 3P Verified to Category 6
- UL E197771, INTERTEK, RoHS Compliant



APPLICATION

- Structure cabling for horizontal and building backbone
- 10G BASE-T (IEEE 802.3an) *55m
- 2.5G/5G BASE-T (IEEE 802.3bz)
- 10/100/1000 BASE-T (IEEE 802.3i/u/ab)
- IEEE 802.3af/at (PoE/PoE+)
- 52/155/622 Mbps and 1.2 Gbps ATM
- 4/16 Mbps Token Ring
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- HD BaseT 2.0 standard, Baseband, Broadband
- Digital & Analog for data, video and audio application

ELECTRICAL CHARACTERISTICS

Impedance	: 100±5Ω, 1 MHz to 600 MHz
Mutual Capacitance	: 5.6 nFMax / 100m
Capacitance, Unbalance	: 160 pF Max / 100m
DC Resistance	: 6.65 ohm Max/100m
DC Resistance, Unbalance	: 5% Max.
Insulated Resistance	: 5000 MΩ/Km
Dielectric Strength	: 1kV/min
Propagation Delay	: 536 ns/100m Max @600MHz
Delay Skew	: 30 ns Max

CONSTRUCTION / MATERIAL

Conductor	: 23AWG Solid or Stranded Bare copper
Insulation	CM, CMR, LSZH : HDPE CMP : FEP
Filler Slot	: FRPE
Ripcord	: Under Jacket
Jacket	CM, CMR : FR-PVC CMP : FR-PVC (Low Smoke) LSZH : FR-LSZH

FREQUENCY (MHZ)	INSERTION LOSS (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	66.0	20.0
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	25.1	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	28.69	42.9	10.9	43.2	6.5	21.2	18.0	17.3
300	32.8	41.5	4.9	40.7	1.9	18.5	15.6	16.8
400	39.7	38.5	-	37.5	-	16.5	13.7	15.9
550	48.9	36.7	-	34.5	-	13.5	10.7	14.9
600	51.1	36.5	-	34.5	-	13.0	10.0	14.7

MECHANICAL PROPERTIES

Minimum Bending Radius

Installation 8 X Cable Diameter
Operation 4 X Cable Diameter

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

Part No.	UL/NEC Flame Rating	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9116	CMR	23AWG Solid Bare Copper	FR-PVC	6.0	White	305m/Pull Box
US-9116LSZH	LSZH	23AWG Solid Bare Copper	FR-LSZH	6.0	White	305m/Pull Box
US-9126LSZH	LSZH	24AWG Stranded Bare Copper	FR-LSZH	6.15	White	305m/Reel