

## CAT.6 UTP CABLE

EMC Lan cable for low loss extended frequency data systems that operate up to 250 MHz The cables test exceed Cat.6 requirements by 6dB or more and provided excellent high speed transmission up to at least 155 Mbps ATM and has demonstrated support of 622 Mbps ATM Depending on the application and Test to 600MHz

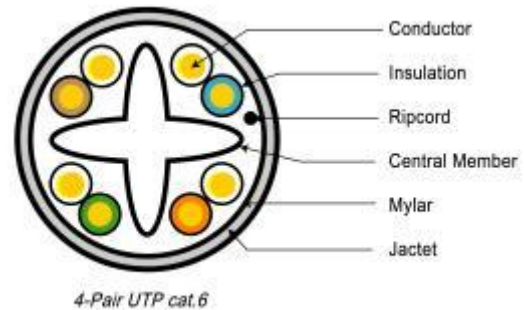


### Product Description

- Conductor : 23AWG Bare Solid Copper
- Insulation : HDPE,FRPE,FEP
- Jacket : FR-PVC,PVC,LSZH
- Packing:Reel

### Applications

- Voice video and data transmission
- Token Ring 4 & 16 Mbps (IEEE 802.5)
- 10 Base T (IEEE 802.3)
- 100 Base TX (IEEE 802.3u)
- 100 VG-AnyLan (IEEE 802.12)
- TP-PMD (ANSI X3T9.5)
- 155 Mbps ATM
- 77 Channels of analog broadband Video.
- Giga speed Ethernet 1.2/2.4Gbps ATM.



### Industry standards

- UL/CSA Listed Plenum : CMP Flame FT-6  
Non-Plenum : CM or CMR Flame rated FT-4
- UL and ETL Verified to ANSI/EIA/TIA 568-B.2 Category 6 compliant according to ISO/IEC 11801 ClasseE, ISO 8877 CENELEC EN 50173 Specifications.
- Meet the most stringent EMC standard EN 55022/Class B
- Flame-retardant/PVC & CMX according to IEC 332-1
- Flame-retardant/LSZH according to IEC 332-3
- EC Verified ATSM6D4566 POWER SUM
- NEMA WC 63.1 ICEAS-90-661 UL 444

Part Numbers	Description
660408-X	UTP Cat.6 4Pr Non-Plenum
660458-X	UTP Cat.6 4Pr LSZH
660408-X	UTP Patch Cord Cat.6 4Pr Non-Plenum
660458-X	UTP Patch Cord Cat.6 4Pr LSZH

Color Cord X : R=Red B=Black W=White Y=Yellow  
U=Blue C=Gray G=Green O=Orange

### Electrical and Transmission Characteristics

- Impedance : 100 ohm  $\pm$ 15 ohm
- Max. Dc Resistance : 6.6 ohms/100m
- Min. Dc Insulation Resistance : 150 M ohm/100m
- Max. Dc Resistance : Unbal : 3%
- Mutual Capacitance Max : 5.6nF/100m 1 KHz
- Max Capacitance Unbal (pair to ground) : 3400 PF/km
- Normal Velocity of propagation (NVP)=Plenum FEP insulated 69%  
Non-Plenum Insulated 66%
- Delay Skew : 30 ns/ 100M
- Max. Propagation Delay : 536 ns/ 100M
- Operating Temperature Range : CMX : - 20°C to + 75°C  
LSZH : - 20°C to + 90°C

### Transmission Characteristics

Frequency (MHz)	ATTENUATION (MAX.dB/100M)	NEXT	PSNEXT	ELFEXT	PSELFEXT	RL	ACR	PSACR
1	1.8	84.3	82.3	67.8	64.8	20	82.5	80.5
4	3.6	75.3	73.3	55.7	52.7	23	71.7	69.7
8	5.1	71.8	68.8	49.7	46.7	24.5	66.7	64.7
10	5.8	69.3	67.3	47.8	44.8	25	63.5	61.5
16	7.3	66.3	64.3	43.7	40.7	25	59.0	57.0
20	8.2	64.8	62.8	41.7	38.7	25	56.6	54.6
25	9.2	63.3	61.3	39.8	36.8	24.3	54.1	52.1
31.25	10.4	61.9	59.9	37.9	34.9	23.6	51.5	49.5
62.5	15.0	57.4	56.4	31.8	28.8	21.5	42.1	40.4
100	19.3	54.3	52.3	27.8	24.8	20.1	35.0	33.0
155	24.8	51.7	49.7	23.9	20.9	18.8	26.9	24.9
200	28.3	49.8	47.8	21.7	18.7	18	21.5	19.5
250	32.0	48.3	46.3	19.8	16.8	17.3	16.2	14.2
300	35.6	47.2	45.2	18.2	15.2	16.8	11.6	9.6
350	38.9	46.2	44.2	16.9	13.9	16.3	7.3	5.3
400	42.0	45.3	43.3	15.7	12.7	15.5	3.3	1.3
450	45.0	44.5	42.5	14.7	11.7	15.5	-	-
500	47.9	43.8	41.8	13.8	10.8	15.2	-	-
550	50.6	43.2	41.2	12.9	9.9	14.9	-	-
600	53.5	41.0	39.0	11.8	8.8	14.7	-	-

### Distributor