

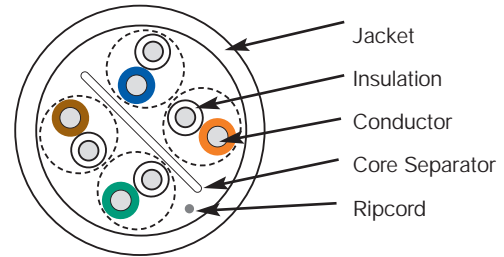
# Category 6e UTP 6 LAN Plus™



Tested to 550 MHz

6 LAN Plus with flat tape core separator is a mid-grade Category 6 unshielded twisted pair (UTP) cable. ETL verified to ANSI/TIA-568-C.2 Category 6 and Mohawk internal 6 LAN Plus specification.

- **25-Year Warranty\***
- **Sweep tested to 550 MHz** – with verified stability
- **25.5 dB minimum PS-ACR at 100 MHz**
- **3 dB NEXT and improvement** versus Category 6 limits due to improved pair isolation



This cable and/or its manufacture are covered by US Patent Nos. 7,179,999, 6,998,537, 6,570,095, 5,563,377 and 5,244,491.

\* Warranty available with MAC program.

Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter inch mm	Weight lbs/M' kg/km	Listings
M58805 Riser	4 PAIR 23 AWG UTP	Thermoplastic	White PVC .230 5.84	25 37	C(UL)US or ETL CMR
M58802 Plenum	4 PAIR 23 AWG UTP	Dual Insulation** FEP on all 4 pairs	White ThermoPlen®* Rated for 125°C .230 5.84	30 45	C(UL)US or ETL CMP

\*Plenum rated Thermoplastic. \*\* US Patent No. 5,563,377. For pair colors see chart A on page 50.

### Jacket Colors for 4-Pair Riser

Jacket Color	Mohawk #	Jacket Color	Mohawk #
WHITE	M58805	GREEN	M58922
BLUE	M58804	RED	M58923
PINK	M58919	ORANGE	M58924
YELLOW	M58920	BLACK	M58925
GRAY	M58806	VIOLET	M58795

### Jacket Colors for 4-Pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
WHITE	M58802	GREEN	M58915
BLUE	M58801	RED	M58916
PINK	M58914	ORANGE	M58917
YELLOW	M58863	BLACK	M58918
GRAY	M58803	VIOLET	M58794

Custom colors available; please consult the factory.

## Electrical Characteristics

### STANDARDS:

EXCEEDS ANSI/TIA-568-C.2 CAT 6 & ISO/IEC 11801:2002 CAT 6 HORIZONTAL CABLE

### CONDUCTOR DCR:

7.8 Ω/100m (23.8 Ω/Mft) MAX

### DCR UNBALANCE:

3% MAX

### MUTUAL CAPACITANCE:

46 pF/m (14 pF/ft) NOM

### CAPACITANCE UNBALANCE

PAIR/GROUND:

66 pF/100m (200 pF/Mft) MAX

### CHARACTERISTIC IMPEDANCE:

100 Ω ± 15% (1-250 MHz)

### INPUT IMPEDANCE:

100 Ω ± 15% (1-100 MHz)  
100 Ω ± 20% (>100-200 MHz)  
100 Ω ± 25% (>200 MHz)

### PROPAGATION DELAY:

534 + 36/√f ns/100m MAX

### DELTA DELAY (SKEW):

45 ns/100m MAX

### NOMINAL VELOCITY OF

PROPAGATION (NVP):  
PLENUM 72%  
RISER 68%

FREQ (MHz)	INSERTION LOSS (dB/100m)		NEXT (dB/100m)		ACR (dB/100m)	PS-NEXT (dB/100m)		PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	RL (dB)
	avg	max	avg	min	min	avg	min	min	min	min	min
1.0	1.9	2.0	83	77.3	75.3	78	75.3	73.3	67.8	64.8	20.0
4.0	3.6	3.8	74	68.3	64.5	69	66.3	62.5	55.8	52.8	23.0
10.0	5.7	6.0	68	56.3	56.3	63	60.3	54.3	47.8	44.8	25.0
16.0	7.3	7.6	65	59.2	51.6	60	57.2	49.6	43.7	40.7	25.0
20.0	8.1	8.5	64	57.8	49.3	59	55.8	47.3	41.8	38.8	25.0
31.25	10.2	10.7	61	54.9	44.2	56	52.9	42.2	37.9	34.9	23.6
62.5	14.8	15.4	56	50.4	35.0	51	48.4	33.0	31.9	28.9	21.5
100.0	19.0	19.8	53	47.3	27.5	48	45.3	25.5	27.8	24.8	20.1
250.0	31.5	32.8	47	41.3	8.5	42	39.3	6.5	19.8	16.8	17.3
350.0	38.2	39.8	45	39.1	-	40	37.1	-	16.9	13.9	16.3
500.0	47.0	48.9	43	36.8	-	38	34.8	-	13.8	10.8	15.2
550.0	49.7	51.8	42	36.2	-	37	34.2	-	-	-	14.9

Values above 250 MHz are for engineering information only.



Safety listed to NEC (NFPA 70)



Verified by ETL to TIA/EIA-568-B.2-1

