

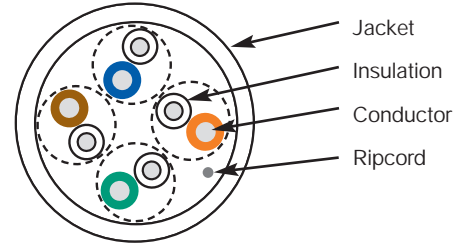
Category 5E UTP MegaLAN®



Tested to 400 MHz

MegaLAN is an enhanced Category 5e grade unshielded twisted pair (UTP) cable. ETL verified to ANSI/TIA-568-C.2 category 5e and Mohawk internal MegaLAN specification.

- **25-Year Warranty***
- **Sweep tested to 400 MHz** – with verified stability
- **1 dB minimum improvement in Insertion Loss** versus Category 5e
- **5 dB minimum improvement in NEXT** versus Category 5e
- **.25 ns/meter maximum skew** – tightly controlled propagation delay



This cable and/or its manufacture are covered by US Patent No. 5,424,491.

* Warranty available with MAC program.

Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter		Weight		Listings
			inch	mm	lbs/M'	kg/km	
M55989 Riser	4 PAIR 24 AWG UTP	Thermoplastic	White PVC .190	4.83	22	33	C(UL)US or ETL CMR
M55988 Plenum	4 PAIR 24 AWG UTP	Dual Insulation** FEP on all 4 pairs	White ThermoPlen®* .190	4.83	26	39	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	M55989	GREEN	M56165
BLUE	M56167	RED	M56670
PINK	M56094	ORANGE	M56954
YELLOW	M56095	BLACK	M57129
GRAY	M56746	VIOLET	M57048

Jacket Colors for 4-Pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
WHITE	M55988	GREEN	M56166
BLUE	M56168	RED	M56072
PINK	M56092	ORANGE	M56876
YELLOW	M56093	BLACK	M56877
GRAY	M56882	VIOLET	M56878

Custom colors available; please consult the factory.

Electrical Characteristics

STANDARDS:

EXCEEDS ANSI/TIA-568-C.2 CAT 5e & ISO/IEC 11801:2002 CAT 5 HORIZONTAL CABLE

CONDUCTOR DCR:

8.9 Ω/100m (27.1 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% (1-400 MHz)

INPUT IMPEDANCE:

100 Ω ±15% (1-100 MHz)
100 Ω ±22% (>100-200 MHz)

PROPAGATION DELAY:

506 + 36/√f ns/100m MAX

DELTA DELAY (SKEW):

25 ns/100m MAX

NOMINAL VELOCITY OF

PROPAGATION (NVP):
PLENUM 72%
RISER 68%

FREQ (MHz)	INSERTION LOSS			NEXT		ACR (dB/100m)	PS-NEXT		PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	RL (dB)
	avg	max	max	avg	min		min	min				
1.0	1.8	2.0	6.2	80	70.3	70.3	73	68.3	66.3	67.8	64.8	20.0
4.0	3.6	4.1	12.2	70	61.3	59.3	63	59.3	55.3	55.8	52.8	23.0
10.0	5.8	6.5	19.4	64	55.3	50.9	58	53.3	46.9	47.8	44.8	25.0
20.0	8.3	9.2	27.7	60	50.8	43.7	54	48.8	39.7	41.8	38.8	25.0
31.25	10.4	11.7	34.8	58	47.9	38.5	51	45.9	34.5	37.9	34.9	23.6
62.5	15.1	17.0	50	54	43.4	29.0	47	41.4	25.0	31.9	28.9	21.5
100.0	19.6	22.0	64	50	40.3	21.3	43	38.3	17.3	27.8	24.8	20.1
200.0	28.8	32.4	93	46	35.8	7.3	40	33.8	3.3	21.8	18.8	18.0
300.0	36.5	40.5	116	44	33.1	-	37	31.1	-	18.3	15.3	16.8
400.0	43.2	45.6	136	42	31.3	-	35	29.3	-	-	-	15.9

Values above 250 MHz are for engineering information only.

