

Category 5E F/UTP

F/UTP is a foil backed shield over the cable core with a drain wire under the foil shield. This cable is ETL verified to Category 5e.

- 25 Year Warranty*
- 20 dB Minimum ACR @ 100 MHz Proven support for Gigabit Ethernet / 1000BASE-T / IEEE 802.3ab, ATM up to 155 Mbps, 100 Mbps Fast Ethernet / 100BASE-T / IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet / 10BASE-T / IEEE 802.3, 4 & 16 Mbps Token Ring / IEEE 802.5, T1/E1, xDSL, ISDN, 550 MHz Broadband Video and standards under development such as ATM at 622 Mbps and 1.2 Gbps.
- 5 dB Minimum Improvement in Near End Crosstalk vs. standard Category 5e NEXT.
- .30 ns/meter Maximum Skew Tightly controlled propagation delay.
- 100% insulation (plenum)

Tested to 400 MHz

- Enhanced Performance Parameters All electrical characteristics proven to exceed TIA/EIA 568-B Category 5e requirements: Near End Crosstalk, Characteristic Impedance, Insertion Loss and Delay Skew.
 Also exceeds TIA/EIA-568-B.2 Category 5e requirements: Power Sum NEXT, Return Loss, and Far End Crosstalk – ELFEXT and PS-ELFEXT.
- Engineered for Future Applications Where cabling is to be installed in a high external noise location. This could be in the path of radar or next to a telecom or a broadcast transmission point. Or is security an issue? When quality cable is properly installed, grounded, and tested, shielded cable provides measurably lower RF emissions.
- Use All Shielded Components for a Shielded or Screened System – Mohawk strongly recommends the use of shielded or screened connecting hardware, and all shielded or screened cords: patch, work area and equipment cords should be used throughout the structured cabling system.
- This cable and/or its manufacture are covered by US Patent No. 5,424,491.
- * Warranty available with MAC and System MATE $\ensuremath{\mathbb{R}}$ programs.

Electrical Characteristics

STANDARDS:

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

CONDUCTOR DCR:

8.9 $\Omega/100m$ (27.1 $\Omega/Mft)$ 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:

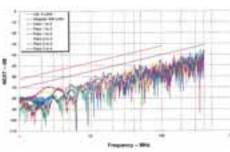
100 $\Omega \pm 15\%$ (1-400 MHz)

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

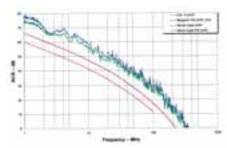
PROPAGATION DELAY: 506 + $36/\sqrt{f}$ ns/100m MAX

DELTA DELAY (SKEW): 30 ns/100m MAX

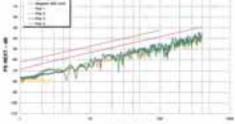
NOMINAL VELOCITY OF PROPAGATION (NVP): PLENUM 72% NON-PLENUM 68% Near End Crosstalk (NEXT)



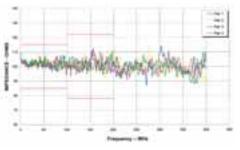
Worst Case ACR and Power Sum ACR



Power Sum NEXT (PS NEXT)









Safety listed to NEC (NFPA 70)



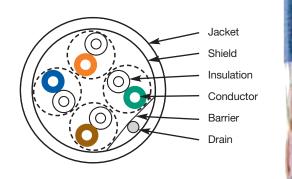
Verified by ETL to TIA/EIA-568-B.2



www.CableCon.co.kr







Jacket Color	Mohawk #	Jacket Color Mohawk #		
WHITE	M55987	GREEN	M57374	
BLUE	M57370	RED	M57375	
PINK	M57371	ORANGE	M57376	
YELLOW	M57372	BLACK	M57377	
GRAY	M57373	VIOLET	M57378	

Jacket Colors for 4-Pair Plenum

Jacket Color	Mohawk #	Jacket Color Mohawk			
WHITE	M55986	GREEN	M57363		
BLUE	M57360	RED	M57364		
PINK	M57322	ORANGE	M57365		
YELLOW	M57361	BLACK	M57366		
GRAY	M57362	VIOLET	M57367		

Custom colors available; please consult the factory.

FREQ (MHz)		I ON LOSS I 00m)	NE (dB/1		ACR (dB/100m)		IEXT 00m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	RL (dB)
.772 1.0 4.0 8.0 10.0 16.0 20.0 25.0 31.25 62.5 100.0 155.0 200.0 250.0 300.0 350.0 400.0	avg 1.6 1.8 3.6 5.2 5.8 7.3 8.3 9.3 10.4 15.1 19.6 25.0 28.8 32.8 36.5 40.0 43.2	max 1.8 2.0 4.0 5.7 6.4 8.1 9.1 10.2 11.4 16.4 21.0 26.6 30.5 34.4 38.0 41.4 44.6	avg 82 80 70 66 64 62 60 59 58 54 50 48 46 45 44 43	min 72.0 70.3 61.3 56.8 55.3 52.2 50.8 49.3 47.9 43.4 40.3 37.4 35.8 34.3 33.1 32.1 31.3	min 72.2 70.3 59.3 59.3 53.1 50.9 46.1 43.7 41.1 38.5 29.0 21.3 12.9 7.3 1.9 ———————————————————————————————————	avg 75 73 63 59 58 56 54 51 47 43 47 43 41 40 38 37 36 35	min 70.0 68.3 59.3 54.8 53.3 50.2 48.8 47.3 45.9 41.4 38.3 35.4 33.8 32.3 31.1 30.1	min 68.2 66.3 55.3 49.1 46.9 42.1 39.7 37.1 34.5 25.0 17.3 8.9 3.3 — — —	min 67.8 55.8 49.7 47.8 43.7 41.8 39.8 37.9 31.9 27.8 24.0 21.8 19.9 19.8 19.8 19.8 19.8 19.8 19.9 19.8 19.8 19.8 19.8 19.9 19.8 10.9 10	min 64.8 52.8 46.7 44.8 40.7 38.8 36.8 34.9 28.9 24.8 21.0 18.8 16.8 16.8 15.3 13.9	min 20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 18.8 18.8 16.8 16.3 15.9

Values above 250 MHz are for engineering information only.

Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter inch mm	Weight Ibs/M' kg/km	Listings
M55987 Non-Plenum	4 PAIR 24 AWG F/UTP	Thermoplastic	White PVC .245 6.22	32 48	C(UL)US CMR
M55986 Plenum	4 PAIR 24 AWG F/UTP	FEP	White ThermoPlen®* .224 5.69	32 48	C(UL)US CMP

*Plenum rated Thermoplastic. For pair colors see chart A on page 64.

