

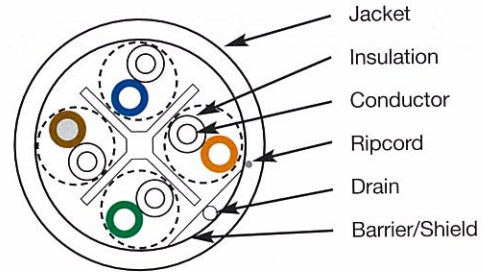
F/UTP Category 6



Tested to 550 MHz

Category 6 F/UTP is a Category 6 with FlexWeb® pair isolator and foil-backed shield over the cable core with a drain under the foil cable. ETL verified to ANSI/TIA-568-C.2 Category 6 and Mohawk internal 6 F/UTP specification.

- **25-Year Warranty***
- **Sweep tested to 550 MHz** – with verified stability
- **24 dB minimum ACR at 100 MHz**
- **.30 ns/meter Maximum Skew** – tightly controlled propagation delay
- **Use with shielded or screened connecting hardware is recommended**



This cable and/or its manufacture are covered by US Patent Nos. 6,596,944, 6,074,503 and 5,424,491.

* Warranty available with MAC program.

Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter inch mm	Weight lbs/M' kg/km	Listings
M58155 Riser	4 PAIR 23 AWG F/UTP	Thermoplastic	White PVC .265 6.73	44 65	C(UL)US CMR
M58175 Plenum	4 PAIR 23 AWG F/UTP	FEP	White ThermoPlen®* .255 6.48	49 73	C(UL)US CMP

*Plenum rated Thermoplastic. For pair colors see chart A on page 50.

Jacket Colors for 4-Pair Riser

Jacket Color	Mohawk #	Jacket Color	Mohawk #
WHITE	M58155	GREEN	M58160
BLUE	M58156	RED	M58161
PINK	M58157	ORANGE	M58162
YELLOW	M58158	BLACK	M58163
GRAY	M58159	VIOLET	M58164

Jacket Colors for 4-Pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
WHITE	M58175	GREEN	M58180
BLUE	M58176	RED	M58181
PINK	M58177	ORANGE	M58182
YELLOW	M58178	BLACK	M58183
GRAY	M58179	VIOLET	M58184

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% (1-300 MHz)

INPUT IMPEDANCE:

100 Ω ±15% (1-100 MHz)

100 Ω ±22% (>100-200 MHz)

100 Ω ±32% (>200-350 MHz)

PROPAGATION DELAY:

534 + 36/√f ns/100m MAX

DELTA DELAY (SKEW):

30 ns/100m MAX

NOMINAL VELOCITY OF PROPAGATION (NVP):

PLENUM 72%

RISER 68%

FREQ (MHz)	INSERTION LOSS (dB/100m)		NEXT (dB/1000ft)		ACR (dB/100m)	PS-NEXT (dB/100m)		PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	RL (dB/100m)
	avg	max	avg	min	min	avg	min	min	min	min	min
1.0	1.9	2.0	82	74.3	72.3	75	72.3	70.3	70.0	68.0	20.0
4.0	3.6	3.8	73	65.3	61.5	65	63.3	59.5	58.0	56.0	23.0
10.0	5.6	6.0	67	59.3	53.3	60	57.3	51.3	50.0	48.0	25.0
16.0	7.1	7.6	66	56.2	48.6	58	54.2	46.6	45.9	43.9	25.0
20.0	7.9	8.5	64	54.8	46.3	56	52.8	44.3	44.0	42.0	25.0
31.25	10.0	10.7	62	51.9	41.2	53	49.9	39.2	40.1	38.1	23.6
62.5	14.4	15.4	58	47.4	32.0	49	45.4	30.0	34.1	32.1	21.5
100.0	18.5	19.8	54	44.3	24.5	45	42.3	22.5	30.0	28.0	20.1
250.0	30.7	32.8	49	38.3	5.5	40	36.3	3.5	22.0	20.0	17.3
500.0	45.7	48.9	45	33.8	-	36	31.8	-	16.0	14.0	15.2
550.0	48.4	51.8	44	33.2	-	35	31.2	-	-	-	14.9

Values above 250 MHz are for engineering information only.

