

## eXtreme® CAT 6+ U/UTP Cable, CM Rated

UTP6M-MXB

### PART NUMBERS

Description	Part No.
eXtreme CAT 6+ U/UTP Cable, CM Rated, blue, 305-meter reel in box	100-UTP6M-MLB
eXtreme CAT 6+ U/UTP Cable, CM Rated, grey, 305-meter reel in box	101-UTP6M-MSB
eXtreme CAT 6+ U/UTP Cable, CM Rated, yellow, 305-meter reel in box	104-UTP6M-MYB
eXtreme CAT 6+ U/UTP Cable, CM Rated, white, 305-meter reel in box	105-UTP6M-MWB
eXtreme CAT 6+ U/UTP Cable, CM Rated, red, 305-meter reel in box	106-UTP6M-MRB
eXtreme CAT 6+ U/UTP Cable, CM Rated, green, 305-meter reel in box	108-UTP6M-MGB

### APPLICATION

IEEE 802.3: Gigabit Ethernet; 1000BASE-T; 100BASE-T;  
 10BASE-T

### STANDARDS COMPLIANCE

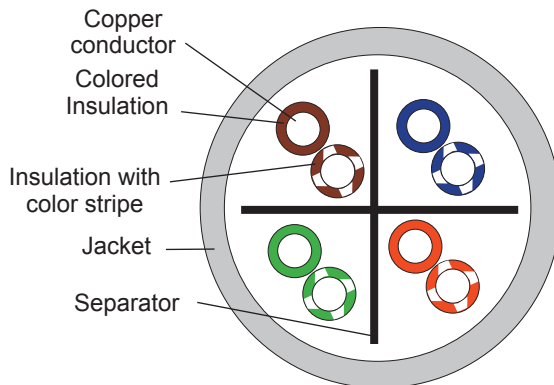
ANSI/TIA-568-C.2 CAT 6  
 ISO/IEC 11801 Class E

### FIRE RATING

UL1685 CM

### COUNTRY OF ORIGIN

Taiwan



Construction		
Conductor	Bare copper wire	23 AWG
Insulation	Polyethylene	Ø 0.99 mm
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: Blue+White/Blue      2: Orange+White/Orange 3: Green+White/Green    4: Brown+White/Brown	
Cable lay-up	4 pairs with different pitches	
Outer jacket	CM	
Outer diameter	Ø 6.0 mm (.236")	



**TECHNICAL SPECIFICATIONS**

<b>Mechanical Properties</b>	
Bending Radius	≥ 4 x OD without load
Temperature range	during operation: -20° C ~ 60° C during installation: 0° C ~ 50° C
<b>Electrical Properties (-20° C ± 5° C)</b>	
DC resistance	Max. 8.9 Ω/100 m at 20° C
Resistance unbalance	Max. 2% at 20° C
Insulation resistance (500V)	Min. 5000 MΩ/Km at 20° C
Mutual capacitance	Nom. 5.1 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 160 pf/100 m at 1kHz
Characteristic impedance (1 - 100MHz)	(100 ± 15) Ω
Nominal velocity of propagation	67%
Test voltage (DC, 1 min.)	1 kV/1 min.
Delay Skew	≤ 45 ns/100 m

**Transmission characteristics acc. to ANSI/TIA 568-C.2 CAT 6 (20° C)**

Freq. (MHz)	Attenuation (dB) max.	NEXT (dB) min.	PS-NEXT (dB) min.	ELFEXT (dB) min.	PS-ELFEXT (dB) min.	Return Loss (dB) min.	Propagation Delay (ns/100m) max.
1	2.0	74.3	72.3	67.8	64.8	20.0	570.0
4	3.8	65.3	63.3	55.8	52.8	23.0	552.0
10	6.0	59.3	57.3	47.8	44.8	25.0	545.4
16	7.6	56.3	54.3	43.7	40.7	25.0	543.0
20	8.5	54.8	52.8	41.8	38.8	25.0	542.0
31.25	10.7	51.9	49.9	37.9	34.9	23.6	540.4
62.5	15.4	47.4	45.4	31.9	28.9	21.5	538.6
100	19.8	44.3	42.3	27.8	24.8	20.1	537.6
200	29.0	39.8	37.8	21.8	18.8	18.0	536.6
250	32.8	38.3	36.3	19.8	16.8	17.3	536.3



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