

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	296-UTP6M-MLB
eXtreme CAT 6+ U/UTP Cable, CM Rated, grey, 305-meter reel in box	297-UTP6M-MSB

APPLICATION

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

STANDARDS COMPLIANCE

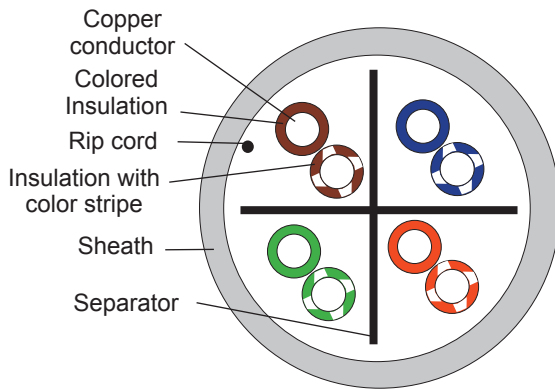
ANSI/TIA-568-C.2 CAT 6
 ISO/IEC 11801 Class E

FIRE RATING

UL 1581

COUNTRY OF ORIGIN

Korea



Construction		
Conductor	Bare copper wire	23 AWG
Insulation	Polyethylene	Ø 0.95 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 6.1 mm ± 0.2 mm (.244")	

TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Bending Radius	≥ 4 x OD without load
Temperature range	during operation: -20° C ~ 75° C during installation: 0° C ~ 60° C
Electrical Properties (-20° C ± 5° C)	
DC resistance	Max. 9.38Ω/100 m at 20° C
Resistance unbalance	Max. 5% at 20° C
Mutual capacitance	Nom. 5.6 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 330 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.	ACR (dB) min.	PSACR (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	72.3	70.3	67.8	64.8	20.0	570.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0	552.0
8	5.3	60.8	58.8	55.5	53.5	49.7	46.7	24.5	546.7
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0	545.4
16	7.6	56.3	54.3	48.7	46.7	43.7	40.7	25.0	543.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0	542.1
25	9.5	53.4	51.4	43.9	41.9	39.8	36.8	24.3	541.2
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6	540.4
62.5	15.4	47.4	45.4	32.0	31.0	31.9	28.9	21.5	535.9
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1	537.6
200	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0	536.6
250	32.8	38.4	36.4	5.6	3.6	19.8	16.8	17.3	536.3



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