

eXtreme® Cat 6 U/UTP Cable, Plenum Rated

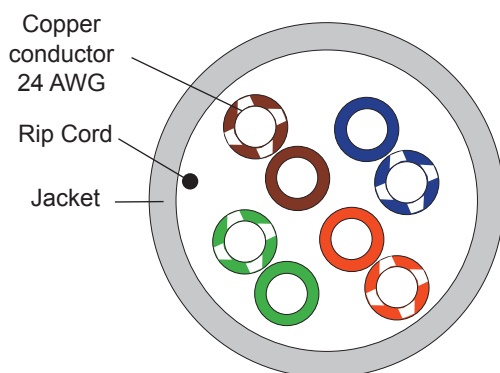
UTP6P-MxB

PART NUMBERS

Description	Part No.
eXtreme Cat 6 U/UTP Cable, Plenum Rated, blue, 305-meter reel in a box	310-UTP6P-MLB
eXtreme Cat 6 U/UTP Cable, Plenum Rated, white, 305-meter reel in a box	312-UTP6P-MWB

APPLICATION

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



FIRE RATING

- CMP/FT6
- NFPA-70

STANDARDS COMPLIANCE

- ANSI/TIA-568-C.2 Cat 6
- ISO/IEC 11801 Class E
- IEC 61156-5
- EN50173
- RoHS Compliant
- cULus listed to UL 444 - CAN/CSA C22.2 No. 214
- IEEE 802.3at (Type 1) Power over Ethernet (PoE) applications up to 15.4 watts
- IEEE 802.3at (Type 2) Power over Ethernet (PoE+) applications up to 30 watts - maximum bundle size of 100 cables
- IEEE Draft 802.3bt /D1.2 (Type 3) Power over Ethernet (PoE+) applications up to 60 watts - maximum bundle size of 75 cables
- Cisco Universal Power Over Ethernet (UPOE) applications up to 60 watts - maximum bundle size of 75 cables

COUNTRY OF ORIGIN

USA

Construction			TECHNICAL SPECIFICATIONS	
Conductor	Bare copper wire	24 AWG	Mechanical Properties	
Insulation	FEP (Fluoropolymer)	Ø 1.04 mm	Bending Radius	≥ 4 x OD without load
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		Temperature range	during operation: -20° C ~ 75° C during installation: 0° C ~ 60° C
Cable lay-up	4 pairs with different pitches		Electrical Properties (-20° C ± 5° C)	
Outer jacket	CMP/FT6		DC resistance	Max. 9.38 Ω/100 m at 20° C
Outer diameter	Ø 5.56 mm (0.22")		Resistance unbalance	Max. 5% at 20° C
			Insulation resistance (500V)	Min. 5000 MΩ/Km at 20° C
			Mutual capacitance	Nom. 5.2 nf/100 m at 1kHz
			Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1kHz
			Characteristic impedance (1 - 100MHz)	(100 ± 13) Ω
			Nominal velocity of propagation	67%
			Test voltage (DC, 1 min.)	1 kV/1 min.
			Delay Skew	45 ns/100 m

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Typical Product Performance Transmission Characteristics

Freq.	RL (dB)		NEXT (db)		PS-NEXT (dB)		ACR (dB/100m)		PSACR (dB/100m)	
	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical
1	20.0	20.0	74.3	76.3	72.3	74.3	72.2	74.3	70.3	72.3
4	23.0	23.0	65.3	67.3	63.3	65.3	61.5	63.5	59.5	61.5
10	25.0	25.0	59.3	61.3	57.3	59.3	53.4	55.4	51.3	53.4
16	25.0	25.0	56.2	58.3	54.2	56.3	48.8	50.1	46.7	48.7
20	25.0	25.0	54.8	56.8	52.8	54.8	46.4	48.4	44.3	46.4
31.25	23.6	23.6	51.9	53.9	49.9	51.9	41.4	43.3	39.2	41.3
62.5	21.5	21.5	47.4	49.4	45.4	47.4	32.4	34.0	30.0	32.0
100	20.1	20.1	44.3	45.3	42.3	44.3	24.2	26.6	22.5	24.6
150	18.9	18.9	41.7	43.7	39.7	41.7	16.9	19.1	14.9	17.1
200	18.0	18.0	39.8	41.8	37.8	39.8	10.8	12.9	8.8	10.9
250	17.3	17.3	38.3	40.4	36.3	38.3	7.3	7.5	3.5	5.5

Typical Product Performance Transmission Characteristics, continued

Freq.	IL (dB/100m)		ACRF (dB/100m)		PSACRF (dB/100m)	
	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical
1	2.0	2.0	67.8	67.8	64.8	69.8
4	3.8	3.8	55.8	55.8	52.8	52.8
10	6.0	6.0	47.8	47.8	44.8	44.8
16	7.6	7.6	43.7	43.7	40.7	40.7
20	8.5	8.5	41.8	41.6	38.8	38.8
31.25	10.7	10.7	37.9	37.9	34.9	34.9
62.5	15.4	15.4	31.9	31.8	28.9	28.9
100	19.8	19.8	27.8	27.8	24.8	24.8
150	24.7	24.6	24.3	24.3	21.3	21.3
200	29.0	29.0	21.8	21.7	18.8	18.8
250	32.8	32.8	19.8	19.8	16.8	16.8



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