

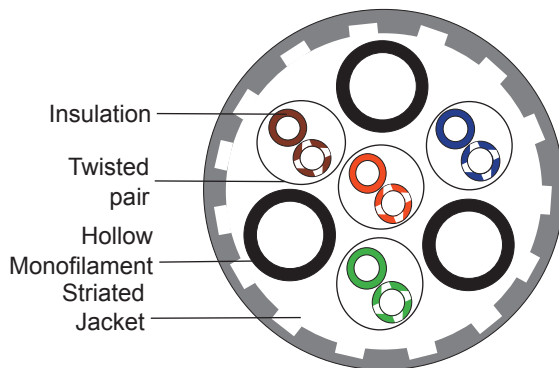
eXtreme™ Cat 6A U/UTP Cable, Plenum Rated

PART NUMBERS

Description	Part No.
eXtreme Cat 6A U/UTP Cable, Plenum Rated, blue, 305-meter spool	110-EUTAP-MLS
eXtreme Cat 6A U/UTP Cable, Plenum Rated, grey, 305-meter spool	111-EUTAP-MSS
eXtreme Cat 6A U/UTP Cable, Plenum Rated, white, 305-meter spool	112-EUTAP-MWS

APPLICATION

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



STANDARDS COMPLIANCE

- ANSI/TIA-568.2-D Cat 6A
- ISO/IEC 11801-1 Class E_A
- EN 50173-1 Class E_A
- IEC 61156-5
- RoHS 2 Compliant
- cULus listed to UL 444 - CAN/CSA C22.2 No. 214
- IEEE 802.3bt PoE Type 1 (15.4 Watts) formerly 802.3af, Type 2 (30 Watts) formerly 802.3at, Type 3 (60 Watts), Type 4 (90 Watts)
- Cisco UPoE (60 Watts), UPoE+ (90 Watts)
- Power over HDBaseT™ PoH (95 Watts)

FIRE RATING

CMP/FT6
NFPA 262

COUNTRY OF ORIGIN

USA

Construction		
Conductor	Bare copper wire	23 AWG
Insulation	FEP (Fluoropolymer)	Ø 1.04 mm
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: White+Blue/Blue 2: White+Orange/Orange 3: White+Green/Green 4: White+Brown/Brown	
Cable lay-up	4 pairs with different pitches	
Outer jacket	CMP/FT6	
Outer diameter	Ø 7.62 mm ± 0.2 mm (.300")	

TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Bending Radius	≥ 4 x OD without load
Temperature range	during operation: -20° C ~ 75° C during installation: 0° C ~ 50° C
Electrical Properties (-20° C ± 5° C)	
DC resistance	Max. 9.38 Ω/100 m at 20° C
Resistance unbalance	Max. 4% at 20° C
Insulation resistance (500V)	Min. 5000 MΩ/Km 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

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Typical Product Performance Transmission Characteristics

Freq. MHz	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	74.2	70.2	72.2
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	51.4	53.4
16	25.0	25.0	56.2	58.3	54.2	56.3	48.8	50.8	46.8	48.8
20	25.0	25.0	54.8	56.8	52.8	54.8	46.4	48.5	44.4	46.5
31.25	23.6	23.7	51.9	53.9	49.9	51.9	41.4	43.5	39.4	41.5
62.5	21.5	21.5	47.4	49.4	45.4	47.4	32.4	34.4	30.4	32.4
100	20.1	20.1	44.3	46.3	42.3	44.3	25.2	27.3	23.2	25.3
150	18.9	18.9	41.7	43.7	39.7	41.7	18.0	20.1	16.0	18.1
200	18.0	18.0	39.8	41.8	37.8	39.8	12.2	14.3	10.2	12.3
250	17.3	17.3	38.3	40.4	36.3	38.4	7.3	9.3	5.3	7.3
300	16.8	16.8	37.1	39.2	35.1	37.2	2.9	5.0	0.9	3.0
350	16.3	16.3	36.1	38.2	34.1	36.2	-1.1	1.1	-3.1	-0.9
400	15.9	15.9	35.3	37.3	33.3	35.3	-4.8	-2.5	-6.8	-4.5
450	15.5	15.5	34.5	36.5	32.5	34.5	-8.2	-6.1	-10.2	-8.1
500	15.2	15.2	33.8	35.8	31.8	33.8	-11.4	-9.4	-13.4	-11.4

Typical Product Performance Transmission Characteristics, continued

Freq. MHz	IL (dB/100m)		ACRF (dB/100m)		PSACRF (dB/100m)	
	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical
1	2.1	2.1	67.8	71.8	64.8	68.8
4	3.8	3.8	55.8	59.7	52.8	56.7
10	5.9	5.9	47.8	51.8	44.8	48.8
16	7.5	7.5	43.7	47.7	40.7	44.7
20	8.4	8.4	41.8	45.8	38.8	42.8
31.25	10.5	10.5	37.9	41.9	34.9	38.9
62.5	15.0	15.0	31.9	35.8	28.9	32.8
100	19.1	19.1	27.8	31.8	24.8	28.8
150	23.7	23.6	24.3	28.3	21.3	25.3
200	27.6	27.6	21.8	25.7	18.8	22.7
250	31.1	31.0	19.8	23.8	16.8	20.8
300	34.3	34.2	18.3	22.2	15.3	19.2
350	37.2	37.1	16.9	20.9	13.9	17.9
400	40.1	39.8	15.8	19.8	12.8	16.8
450	42.7	42.6	14.7	18.7	11.7	15.7
500	45.3	45.3	13.8	17.8	10.8	14.8



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