

eXtreme® Cat 6A U/UTP Cable, Riser Rated

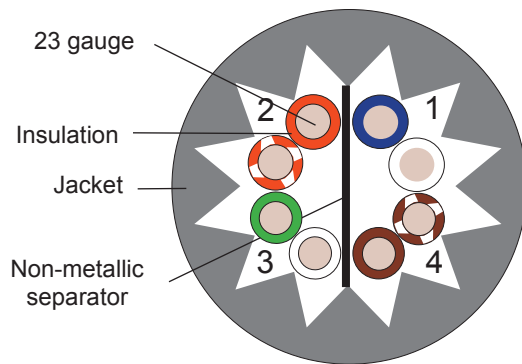
UTPAR-MLS, UTPAR-MSS

PART NUMBERS

Description	Part No.
eXtreme Cat 6A U/UTP Cable, Riser Rated, blue, 305-meter spool	200-UTPAR-MLS
eXtreme Cat 6A U/UTP Cable, Riser Rated, gray, 305-meter spool	201-UTPAR-MSS

APPLICATION

IEEE 802.3: 10GBASE-T; 1000BASE-T; 100BASE-T;
10BASE-T



STANDARDS COMPLIANCE

- ANSI/TIA-568.2-D Cat 6A
- ISO/IEC 11801 Class E_A
- IEC 61156-5
- EN50173
- RoHS Compliant
- PoE standards: IEEE 802.3af, 802.3at, 802.3bt, Cisco UPoE, and Power over HDBaseT™ (PoH) up to 100 watts
- For 100 watts applications — Up to 119 cables in a bundle

FIRE RATING

- UL 1666
- UL 444 CMR

COUNTRY OF ORIGIN

Taiwan

CONSTRUCTION

Conductor	Bare copper wire	23 gauge
Insulation	Polyethylene	Ø 1.19 mm
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: White/Blue 2: White+Orange/Orange 3: White/Green 4: White+Brown/Brown	
Cable lay-up	4 pairs with different pitches	
Outer jacket	Riser (CMR)	
Outer diameter	Ø 7.9 mm (.311")	

TECHNICAL SPECIFICATIONS

Mechanical Properties	
Bending Radius	≥ 4 x OD without load
Temperature range	during operation: -20° C ~ 60° C during installation: 0° C ~ 50° C
Electrical Properties (-20° C ± 5° C)	
DC resistance	Max. 8.2 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. 5.6 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 160 pf/100 m at 1kHz
Characteristic impedance (1 - 500MHz)	(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 ACCORDING TO ANSI/TIA-568.2-D Cat 6A (20° C)

Freq. (MHz)	NEXT (dB) min.	PS-NEXT (dB) min.	ACRF (dB) min.	PS-ACRF (dB) min.	PS-ANEXT (dB) min.	PS-AACRF (dB) min.	Return Loss (dB) min.	IL (dB) min.
1	74.3	72.3	67.8	64.8	67.0	67.0	20.0	2.1
4	65.3	63.3	55.8	52.8	67.0	66.2	23.0	3.8
10	59.3	57.3	47.8	44.8	67.0	58.2	25.0	5.9
16	56.2	54.2	43.7	40.7	67.0	54.1	25.0	7.5
31.25	51.9	49.9	37.9	34.9	67.0	48.3	23.6	10.5
62.5	47.4	45.4	31.9	28.9	65.6	42.3	21.5	15.0
100	44.3	42.3	27.8	24.8	62.5	38.2	20.1	19.1
250	38.3	36.3	19.8	16.8	56.5	30.2	17.3	31.1
400	35.3	33.3	15.8	12.8	53.5	26.2	15.9	40.1
500	33.8	31.8	13.8	10.8	52.0	24.2	15.2	45.3



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