

## eXtreme® Cat 6A U/UTP Cable, LSZH

UTCAZ-MXS

### PART NUMBERS

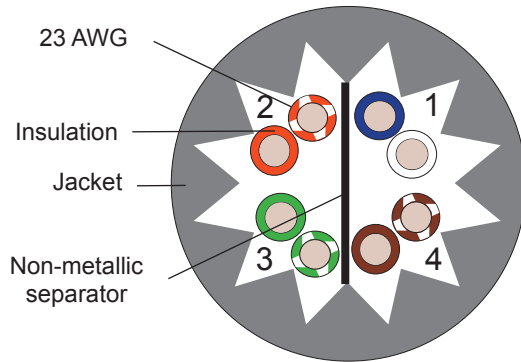
Description	Part No.
eXtreme Cat 6A U/UTP Cable, Low-Smoke Zero Halogen, blue, 305-meter spool	203-UTCAZ-MLS
eXtreme Cat 6A U/UTP Cable, Low-Smoke Zero Halogen, grey, 305-meter spool	205-UTCAZ-MSS

### 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<sub>A</sub>
- ISO/IEC 15018: 2004
- IEC 61156-1
- IEC 61156-5
- EN50173
- PoE standards: IEEE 802.3af, 802.3at, 802.3bt, Cisco UPoE, and Power over HDBaseT™ (PoH) up to 100 watts
- For 100 watt applications — Up to 174 cables in a bundle



### FIRE RATING

IEC 60332-1  
IEC 61034-2  
IEC 60754-1  
IEC 60754-2

### COUNTRY OF ORIGIN

Taiwan

Construction		
Conductor	Bare copper wire	23 AWG
Insulation	Polyethylene	Ø 1.06 mm
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: Blue+White                      2: Orange+White/Orange 3: Green+White/Green            4: Brown+White/Brown	
Cable lay-up	4 pairs with different pitches	
Outer jacket	LSZH	
Outer diameter	Ø 7.9 mm (.311")	

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**TECHNICAL SPECIFICATIONS**

**Mechanical Properties**

Bending Radius	≥ 4 x OD without load ≥ 8 x OD with 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 - 100MHz)	(100 ± 15) Ω
Nominal velocity of propagation	67%
Test voltage (DC, 1 min.)	1 kV/1 min.
Delay Skew	45 ns/100 m (max)

**Transmission characteristics acc. to ANSI/TIA 568.2-D Cat 6A (20° C)**

Freq. (MHz)	NEXT (dB) min.	PS-NEXT (dB) min.	ARCF (dB) min.	PS-ARCF (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	58.0	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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