

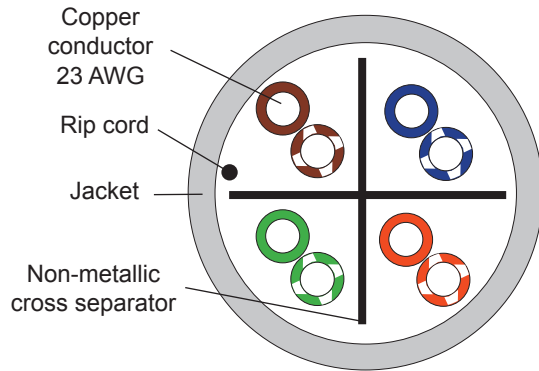
## Atlas-X1™ Cat 6 U/UTP Cable, Riser Rated

### PART NUMBERS

Description	Part No.
Atlas-X1 Cat 6 U/UTP Cable, Riser Rated, blue, 305-meter reel in a box	110-EUT6R-MLB
Atlas-X1 Cat 6 U/UTP Cable, Riser Rated, grey, 305-meter reel in a box	111-EUT6R-MSB
Atlas-X1 Cat 6 U/UTP Cable, Riser Rated, white, 305-meter reel in a box	112-EUT6R-MWB

### APPLICATION

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



### STANDARDS COMPLIANCE

- ANSI/TIA-568.2-D Cat 6
- ISO/IEC 11801-1 Class E
- EN 50173-1 Class E
- IEC 61156-5
- RoHS 2 Compliant
- cETLus 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

- CMR/FT4
- UL 1666

### COUNTRY OF ORIGIN

USA

### 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. 9.38 Ω/100 m at 20° C
Resistance unbalance	Max. 5% 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 ± 13) Ω
Nominal velocity of propagation	69%
Test voltage (DC, 1 min.)	1 kV/1 min.
Delay Skew	35 ns/100 m

### Construction

Conductor	Bare copper wire	23 AWG
Insulation	Polyethylene	Ø .94 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	CMR/FT4	
Outer diameter	Ø 5.71 mm (.228")	

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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	79.3	72.3	77.3	72.3	77.3	70.3	75.3
4	23.0	23.6	65.3	70.3	63.3	68.3	61.5	66.6	59.5	64.6
10	25.0	26.0	59.3	64.3	57.3	62.3	53.3	58.4	51.3	56.4
16	25.0	26.0	56.2	61.3	54.2	59.3	48.7	53.8	46.7	51.7
20	25.0	26.0	54.8	59.8	52.8	57.8	46.3	51.4	44.3	49.4
31.25	23.6	25.0	51.9	56.9	49.9	54.9	41.2	46.4	39.2	44.3
62.5	21.5	23.5	47.4	52.4	45.4	50.4	32.0	37.1	30.0	35.1
100	20.1	22.5	44.3	49.3	42.3	47.3	24.5	29.7	22.5	27.6
150	18.9	21.6	41.7	46.7	39.7	44.7	16.9	22.2	14.9	20.2
200	18.0	21.0	39.8	44.8	37.8	42.8	10.8	16.0	8.8	14.0
250	17.3	20.5	38.3	43.4	36.3	41.4	5.5	10.8	3.5	8.7
300	-	20.1	-	42.2	-	40.2	-	6.1	-	4.1
350	-	19.8	-	41.2	-	39.2	-	1.8	-	-0.2
400	-	-	-	-	-	-	-	-	-	-
450	-	-	-	-	-	-	-	-	-	-
500	-	-	-	-	-	-	-	-	-	-

**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	72.8	64.8	68.8
4	3.8	3.8	55.8	60.7	52.8	57.7
10	6.0	5.9	47.8	52.8	44.8	49.8
16	7.6	7.5	43.7	48.7	40.7	45.7
20	8.5	8.4	41.8	46.8	38.8	43.8
31.25	10.7	10.6	37.9	42.9	34.9	39.9
62.5	15.4	15.3	31.9	36.8	28.9	33.8
100	19.8	19.7	27.8	32.8	24.8	29.8
150	24.7	24.5	24.3	29.3	21.3	26.3
200	29.0	28.8	21.8	26.7	18.8	23.7
250	32.8	32.6	19.8	24.8	16.8	21.8
300	-	36.1	-	23.2	-	20.2
350	-	39.4	-	21.9	-	18.9
400	-	-	-	-	-	-
450	-	-	-	-	-	-
500	-	-	-	-	-	-

All swept frequency values above 350 MHz are for engineering purpose only.

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