

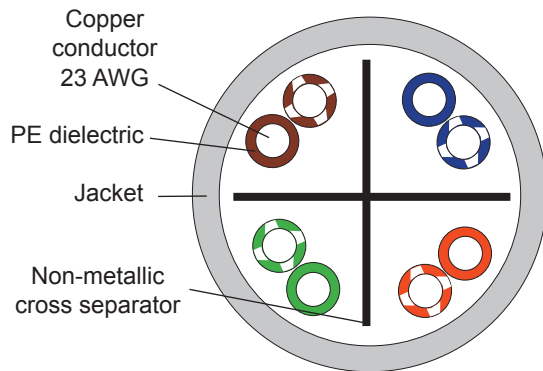
Atlas-X1™ Cat 6 U/UTP Cable, LSZH

PART NUMBERS

Description	Part No.
Atlas-X1 Cat 6 U/UTP Cable, Low-Smoke Zero Halogen, blue, 305-meter reel in box	100-UTP6Z-MLB
Atlas-X1 Cat 6 U/UTP Cable, Low-Smoke Zero Halogen, grey, 305-meter reel in box	101-UTP6Z-MSB
Atlas-X1 Cat 6 U/UTP Cable, Low-Smoke Zero Halogen, blue, 305-meter spool	102-UTP6Z-MLS
Atlas-X1 Cat 6 U/UTP Cable, Low-Smoke Zero Halogen, grey, 305-meter spool	103-UTP6Z-MSS
Atlas-X1 Cat 6 U/UTP Cable, Low-Smoke Zero Halogen, white, 305-meter reel in box	104-UTP6Z-MWB

APPLICATION

IEEE 802.3: 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
- ISO/IEC 15018
- IEC 61156-1
- IEC 61156-5
- RoHS 2 Compliant
- 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

- IEC 60332-1-2 (vertical flame test)
- IEC 60754-1
- IEC 60754-2
- IEC 61034-2

COUNTRY OF ORIGIN

Taiwan

Construction		
Conductor	Bare copper wire	23 AWG
Insulation	Polyethylene	Ø 0.99 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	LSZH	
Outer diameter	Ø 6.0 mm (.236")	

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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. 8.9 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. 5.1 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-C.2 Cat 6 (20° C)							
Freq. (MHz)	Attenuation (dB) max.	NEXT (dB) min.	PS-NEXT (dB) min.	ELFEXT (dB) min.	PS-ELFEXT (dB) min.	Return Loss (dB) min.	Propagation Delay (ns/100m) max.
1	2.0	74.3	72.3	67.8	64.8	20.0	570.0
4	3.8	65.3	63.3	55.8	52.8	23.0	552.0
10	6.0	59.3	57.3	47.8	44.8	25.0	545.4
16	7.6	56.3	54.3	43.7	40.7	25.0	543.0
20	8.5	54.8	52.8	41.8	38.8	25.0	542.0
31.25	10.7	51.9	49.9	37.9	34.9	23.6	540.4
62.5	15.4	47.4	45.4	31.9	28.9	21.5	538.6
100	19.8	44.3	42.3	27.8	24.8	20.1	537.6
200	29.0	39.8	37.8	21.8	18.8	18.0	536.6
250	32.8	38.3	36.3	19.8	16.8	17.3	536.3



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