

Atlas-X1™ Cat 6A F/UTP Cable, LSZH

FTPAZ-MLS, FTPAZ-MSS, FTPAZ-5WS

PART NUMBERS

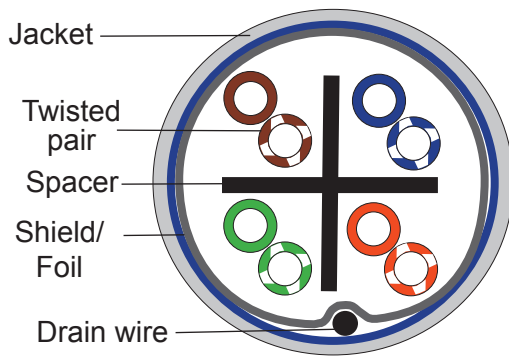
Description	Part No.
Atlas-X1 Cat 6A F/UTP Cable, LSZH, blue, 305-meter spool	100-FTPAZ-MLS
Atlas-X1 Cat 6A F/UTP Cable, LSZH, grey, 305-meter spool	101-FTPAZ-MSS
Atlas-X1 Cat 6A F/UTP Cable, LSZH, white, 500-meter spool	102-FTPAZ-5WS

APPLICATION

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

STANDARDS COMPLIANCE

ANSI/TIA-568-C.2 Category 6A
 IEEE 802.3an 10GBASE-T
 EU Directive 2002/95/EC (RoHS)
 ED2.0_46C844CDV
 IEC 11801
 IEC 61156-5



FIRE RATING

IEC 60332-1 (fire rating)
 IEC 60754-1 (toxicity)
 IEC 60754-2 (acid gas)
 IEC 61034-2 (smoke density)

COUNTRY OF ORIGIN

Taiwan

Construction		
Conductor	Bare copper wire	23 AWG
Insulation	Polyethylene	Ø 1.1 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	
Shielding	1. Mylar® tape as buffer layer 2. Mylar tape laminated with aluminum foil as shield, with foil facing inward 3. Drain wire (26 AWG) placed between Mylar tape and aluminum-foil-laminated Mylar tape	
Cable lay-up	4 pairs with different pitches	
Outer jacket	LSZH	
Outer diameter	Ø 7.4 mm ± (.291")	

Mylar® is a registered trademark of DuPont Teijin Films.

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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. 5.1 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

Transmission characteristics acc. to ANSI/TIA-568-C.2 Cat 6A (20° C)

Freq. (MHz)	NEXT (dB) min.	PS-NEXT (dB) min.	ACRF (dB) min.	PS-ACRF (dB) min.	Return Loss (dB) min.	IL (dB/100) min.	Propagation Delay (ns/100m) max.
1	74.3	72.3	67.8	64.8	20.0	2.1	570.0
4	65.3	63.3	55.8	52.8	23.0	3.8	552.0
10	59.3	57.3	47.8	44.8	25.0	5.9	545.0
16	56.2	54.2	43.7	40.7	25.0	7.5	543.0
20	54.8	52.8	41.8	38.8	25.0	8.4	542.0
31.25	51.9	49.9	37.9	34.9	23.6	10.5	540.0
62.5	47.4	45.4	31.9	28.9	21.5	15.0	539.0
100	44.3	42.3	27.8	24.8	20.1	19.1	538.0
250	38.3	36.3	19.8	16.8	17.3	31.1	536.0
300	37.1	35.1	18.3	15.3	16.8	34.3	536.0
500	33.8	31.8	13.8	10.8	15.2	45.3	536.0



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