

Newlink Cat 6A 23AWG LSZH

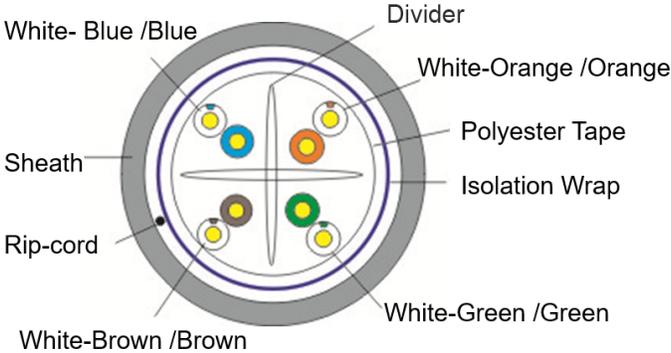
Technical Specifications:

Product Description:

Type: Category 6A U/UTP 4 Pair
 Non-screened cable

Standards: ISO/IEC11801, ANSI/TIA-568.2-D

Applications: Generic cabling systems.
 Including 10Base -T, 100Base -T
 1000Base -T, ATM 10G & Token Ring



Construction:

Conductor	Material:	Solid Bare Copper		
	Nom. O.D. (mm)	0.565	Up	+0.001
			down	-0.001
Insulation 1	Material	PE		
	Diameter	1.12 ± 0.05mm		
Insulation 2	Material	PE		
	Diameter	1.16 ± 0.05mm		
Wrapping	Polyester Tape + Isolation Wrap			
Jacket	Thickness	0.55 ± 0.05mm		
	External O.D.	7.3 ± 0.05mm		
	Surface	Clean, Frap, Satiation		
	Material	LSZH (Complies RoHS)		
	Color	Blue or Gray		
Surface Printing	Letter height	3.0 ± 0.03mm		
	Color	Black		
	Print error & space	≤± 0.5% 1m		
Core color	1 White – Blue/Blue	2 White – Orange/Orange		
	3 White – Green/Green	4 White – Brown/Brown		
Length	305 ± 1.5m/500 ± 2.5m			
Packing	Reel			
Rip-cord	Yes			

Drain Wire	No
Physical Properties	Before aging Tensile Strength (Mpa) ≥ 10.0 Elongation (%) ≥ 125
	Aging Period ($^{\circ}\text{C} \times \text{hrs}$) $100^{\circ}\text{C} \ 24\text{h} \times 7\text{d}$
	After aging Tensile Strength (Mpa) ≥ 8.0 Elongation (%) ≥ 100
	Cold Bend ($-20 \pm 2^{\circ}\text{C} \times 4\text{h}$) $8 \times \text{Cable OD}$, no visible cracks
Electrical Characteristics (20°C)	Impedance (Ω) $1.0 - 250.0 \text{ MHz}$ 100 ± 15 $250.0 - 500.0 \text{ MHz}$ 100 ± 22
	$1.0 - 500.0\text{MHz}$ Delay Skew (ns/100m) ≤ 45
	DC Resistance ($\Omega / 100\text{m}$) max 9.38
	DC Conductor Resistance Unbalance (%) max 5.0
Standards	<u>STANDARDS COMPLIANCE</u> ANSI/TIA-562-D Category 6A ISO/IEC 11801-1 Class Ea IEEE 802.3an 10GBASE-T RoHS 2 Compliant IEC 61156-5 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) <u>FIRE RATING</u> <u>IEC 60332-1 (fire rating)</u> <u>IEC 60754-1 (toxicity)</u> <u>IEC 60754-2 (acid gas)</u> <u>IEC 61034-2 (smoke density)</u>

Technical Performance 100m:

Frequency (MHz)	Return ≥dB	ATT ≤dB	NEXT ≥dB	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	PSANEXT ≥dB	PSAACRF ≥Db
1	20.0	--	74.3	72.3	67.8	64.8	67.0	67.0
4.0	23.0	3.8	65.3	63.3	55.8	52.8	67.0	66.2
8.0	24.5	5.3	60.8	58.8	49.7	46.7	67.0	60.1
10.0	25.0	5.9	59.3	57.3	47.8	44.8	67.0	58.2
16.0	25.0	7.5	56.2	54.2	43.7	40.7	67.0	54.1
20.0	25.0	8.4	54.8	52.8	41.8	38.8	67.0	52.2
25.0	24.3	9.4	53.3	51.3	39.8	36.8	67.0	50.2
31.25	23.6	10.5	51.9	49.9	37.9	24.9	67.0	48.3
62.5	21.5	15.0	47.4	45.4	31.9	28.9	65.6	42.3
100	20.1	19.1	44.3	42.3	27.8	24.9	62.5	38.2
200	18.0	27.6	39.8	37.8	21.8	18.8	58.0	32.2
250	17.3	31.1	38.3	36.3	19.8	16.8	56.5	30.2
300	16.8	34.3	37.1	35.1	18.3	15.3	55.3	28.7
500	15.2	45.3	33.8	31.8	13.8	10.8	52.0	24.2

Ordering Information:

Part number	Description
NEW-980766X	Newlink UTP Cat 6A with LSZH jacket

X = 1: Gray
X = 2: Blue