

### Newlink Cat 6A 23AWG LSZH

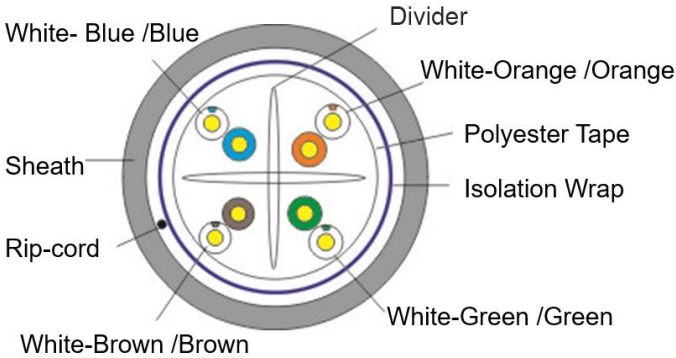
**Technical Specifications:**

**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:**

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

<b>Drain Wire</b>	No
<b>Physical Properties</b>	Before aging Tensile Strength (Mpa) $\geq 10.0$ Elongation (%) $\geq 125$
	Aging Period ( $^{\circ}\text{C} \times \text{hrs}$ ) $100^{\circ}\text{C} \times 24\text{h} \times 7\text{d}$
	After aging Tensile Strength (Mpa) $\geq 8.0$ Elongation (%) $\geq 100$
	Cold Bend ( $-20 \pm 2^{\circ}\text{C} \times 4\text{h}$ ) $8 \times \text{Cable OD}$ , no visible cracks
<b>Electrical Characteristics (20°C)</b>	Impedance ( $\Omega$ ) 1.0 – 250.0 MHz $100 \pm 15$ 250.0 – 500.0 MHz $100 \pm 22$
	1.0 – 500.0MHz Delay Skew (ns/100m) $\leq 45$
	DC Resistance ( $\Omega / 100\text{m}$ ) max 9.38
	DC Conductor Resistance Unbalance (%) max 5.0
<b>Standards</b>	ISO/IEC11801, ANSI/TIA-568.2-D

#### Technical Performance 100m:

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

**Ordering Information:**

<b>Part number</b>	<b>Description</b>
NEW-980766X	Newlink UTP Cat 6A with LSZH jacket

X = 1: Gray  
X = 2: Blue