

# CERTECH 305M Cat6A 10G U/UTP Cable, LSZH Jacket

## NCC6ALSZHXX



### DESCRIPTION

The CERTECH Cat6A U/UTP cable consists of 4 x copper conductor twisted pairs separated by a pair divider for superior AXT performance, LSZH jacket and a strength member for improved pulling tension. CERTECH Cat6A cabling solutions support data transmission speeds of up to 10 gigabits per second (10 Gbps). When combined with CERTECH Cat6A jacks and installed by a CERTECH certified installer, the permanent links exceed the performance criteria outlined is AS 11801 (1-6) and certifiable through CERTECH's 25 Year Certified Warranty Program.

### FEATURES

- 305m Cat6A U/UTP reel in a box
- 500 MHz
- 100% bare copper cable
- 23AWGx4P
- LSZH Jacket
- Integrated pair separator
- Internal strength member
- ROHS, RCM and REACH compliant
- GECA Claim Authenticated (PVC free)
- Available Colours



### STANDARDS

- AS/CA S008 (Australian)
- AS 11801 (1-6) (Australian)
- TIA/EIA-568-D (North American)
- UL444 (International)
- IEEE 802.3 (International)

PoE Table: Power over Ethernet (PoE)

Name	IEEE Standard	Power at Port	Current/Disconnection under load
PoE	IEEE 802.3af	15.5	Compliant
PoE+	IEEE 802.3at	30W	Compliant
PoE++	IEEE 802.3bt (Type 3)	60W	Compliant
PoE++	IEEE 802.3bt (Type 4)	100W	Compliant

### APPLICATIONS

- Supports 10GBASE-T Ethernet
- Backwards compatible to: 1000BASE-Tx Gigabit Ethernet, 10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3)
- 500 MHz Ultra High Bandwidth Audio Visual
- Voice, T1, ISDN
- ONVIF Security Protocol



DESIGNED AND MANUFACTURED TO AUSTRALIAN STANDARDS AND CONDITIONS

# SPECIFICATIONS

Category:	U/UTP CAT6A-4P- LSZH				
Reference Standard:	ISO/IEC11801 TIA/EIA-568-D				
Conductor:	Material:	Solid-Bare Copper			
	Nom.O.D.(mm):	0.565	up	+0.005	
			down	-0.005	
Insulation:	Material:	HDPE			
	Diameter:	1.02±0.03 mm			
Sheath:	Thickness:	0.70 ± 0.05mm (Avg)			
	External O.D:	7.1 ± 0.4mm			
	Material:	LSZH (RoHS Compliant)			
	Colour:	Multiple			
Surface Printing:	Letter height:	3.0+ 0.3mm			
	Colour:	Black			
	Print error & Space	≤±0.5%, 1m			
Rip-Cord	Yes				
Core Colour:	A. White, Blue-Blue	B. White, Orange-Orange	C. White, Green-Green	D. White, Brown-Brown	
Packing:	Reel in Box				
Length:	305±1.0m				
Operating Frequency:	500MHz				
Box Size:	33 (W) x 39 (D) x 38 (H)cm				
Sheath Physical Properties:	Before Aging:	Tensile Strength (Mpa) ≥13.5		Elongation(%) ≥150	
	Aging Period (°C) x hrs:	100°C x 24hr x7d			
	After Aging:	Tensile Strength (Mpa) ≥12.5		Elongation (%) ≥125	
	Cold Bend:(-20±2°Cx4h)	No visible cracks			
Electrical Characteristics: (20°C)	1.0-250.0MHz	Delay Shew(ns/100m)		≤45	
	1.0-250.0MHz	Impedance (Ω):		100±15	
	DC Conductor Resistance Unbalanced (%) max			in pair ≤2.0% pair to pair ≤4.0%	
Remote Power Data for RP1, RP2 and RP3 calculations:	Operating Temperature			-40°C ~ + 75°C	
	DC Resistance (pf/100m) max			9.38	
	(NVP) Nominal Velocity of Propagation			69%	
Installation Temperature:	-20°C ~ + 60°C				
Flame Test Method:	No				
Min. Bend Radius (Pulling)	8 times outer cable diameter				
Min. Bend Radius (Installed)	4 times outer cable diameter				
Dielectric Strength (Max.)	DC 1000V 1min No Breakdown				
Mutual Capacitance at Frequency	≤5.6nF/100m				