

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

NCC6AFUTPXX



DESCRIPTION

The CERTECH Cat6A F/UTP cable consists of 4 x copper conductor twisted pairs and a LSZH jacket, separated by a pair separator and wrapped in an overall foil shield. Designed with a strength member for improved pulling tension and drain wire for earth continuity. 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 in AS 11801 (1-6) and certifiable through CERTECH's 25 Year Certified Warranty Program.

FEATURES

- 305m Cat 6A F/UTP reel in a box 500 MHz
- 100% bare copper cable
- 23AWGx4P
- LSZH Jacket
- Overall foil shield
- Integrated pair separator
- Internal drain wire
- 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

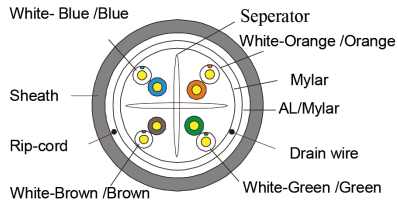
APPLICATIONS

- 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:	SD F/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:	1.12±0.04 mm			
Sheath:	Thickness:	0.60 ± 0.05mm			
	External O.D:	7.4 ± 0.5mm			
	Material:	LSZH (RoHS Compliant & GECA approved)			
	Colour:	TBD			
	Surface Printing:	Letter height:	3.0+ 0.3mm		
Core Colour:	Letter height:	3.0+ 0.3mm			
	Colour:	Black			
Core Colour:	A. White- Blue/Blue	B. White- Orange/ Orange	C. White- Green/Green	D. White- Brown/Brown	
Packing:	Reel in Box				
Box Size:	33 (W) x 39 (D) x 38 (H)cm				
Sheath Physical Properties:	Before Aging:	Tensile Strength (Mpa) ≥10.0		Elongation(%) ≥125	
	Aging Period (°C) x hrs:	100°C x 24hr x7d			
	After Aging:	Tensile Strength(Mpa) ≥8.0		Elongation (%) ≥100	
Electrical Characteristics: (20°C)	Impedance(Ω)		1.0-250.0MHz	100±15	
			251.0-500.0MHz	100±22	
	1.0-500.0MHz	Delay Skew (ns/100m)		≤45	
	DC Conductor Resistance Unbalanced (%) max			max 5.0	
	Unbalanced to ground capacitance (pf/100m) max			330	
Remote Power Data for RP1, RP2 and RP3 calculations:	DC Resistance (pf/100m) max		≤9.38		
	Operating Temperature		-20°C ~ + 75°C		
	(NVP) Nominal Velocity of Propagation		69%		
Flame Test Method:	IEC60332-1-2				
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	≤5.8nF/100m				
Operating Frequency:	500MHz				
DC Resistance Unbalanced:	in pair ≤2.0%, pair to pair≤4.0%				

