

305M Cat6 High Performance UTP External Cable

NCC6SLDEXT



DESCRIPTION

The CERTECH 305M UTP Cable is a high-performance network cable designed for outdoor above ground (not underground) use. The cable consists of 4 x copper conductor twisted pairs separated by a pair divider, PE jacket, and a strength member for improved pulling tension. With Cat6 performance, this cable guarantees data transmission speeds of up to 1 gigabit per second (1 Gbps). The PE sheath protects the cable from the harsh external elements, including UV rays, making it an ideal choice for challenging outdoor installations. The NCC6SLDEXT cable from CERTECH is supplied on a 305m wooden reel.

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

FEATURES

- 305m Cat6 Black UTP External Solid Cable Roll 250MHz
- 100% Bare Copper Cable
- 23AWGx4P
- PE Jacket
- AS/CA S008: Approved

APPLICATIONS

- External cable runs (aerial/above ground)
- Supports 1GBASE-T (1000Base-T) Ethernet
- Backwards compatible to: 10BASE-T, 100BASE-T, (IEEE 802.3)
- 250 MHz High Bandwidth Audio Visual
- Voice, T1, ISDN
- ONVIF Security Protocol



DESIGNED AND MANUFACTURED TO AUSTRALIAN STANDARDS AND CONDITIONS

SPECIFICATIONS

Category:	U/UTP CAT6-4P-PE				
Reference Standard:	ISO/IEC11801 TIA-568-C.2				
Conductor:	Material:	Solid-Bare Copper			
	Nom.O.D.(mm):	0.550	up	+0.005	
			down	-0.005	
DC Resistance/Conductor Size:	Ohms per metre	≤9.38Ω/100m			
Insulation:	Material:	HDPE			
	Diameter:	0.95 ± 0.05mm			
Sheath:	Thickness:	0.55 ± 0.05mm			
	External O.D:	6.3 ± 0.5mm			
	Material:	LDPE (RoHS Compliant & GECA approved)			
	Colour:	Black			
Surface Printing:	Letter height:	3.0+ 0.3mm			
	Colour:	White			
Core Colour:	A. Blue, White-Blue	B. Orange, White-Orange	C. Green, White-Green	D. Brown, White-Brown	
Shield:	PET Tape				
Packing:	Wooden Drum				
Box Size:	33 (W) x 39 (D) x 38 (H)cm				
Sheath Physical Properties:	Before Aging:	Tensile Strength (Mpa) ≥10.0	Elongation(%) ≥350		
	Aging Period (°C) x hrs:	100°C x 24hr x10d			
	After Aging:	Elongation (%) ≥100			
	Cold Bend: (20±2°Cx4h)	No visible cracks			
Electrical Characteristics:	Impedance (Ω):	1.0-250.0MHz	100± 15		
	1.0-250.0MHz Delay Skew (ns/100m)	≤45			
	DC Resistance (pf/100m) max	9.38			
	DC Conductor Resistance Unbalanced (%):	max 5.0			
Operating Temperature:	-40°C ~ + 75°C				
Installation Temperature:	-20°C ~ + 60°C				
Flame Test Method:	No				
DC Resistance Unbalanced:	in pair ≤2.0%, pair to pair≤4.0%				
DC Resistance (Max.):	≤9.38Ω/100m				
(NVP) Nominal Velocity of Propagation:	69%				
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				
Operating Frequency:	250MHz				

