

CERTECH 305M Cat6 U/UTP External (Underground) Cable, PE Jacket

NCC6SLDGEL



DESCRIPTION

The CERTECH 305M Cat6 U/UTP external cable is a high-performance network cable designed for outdoor and underground use. The cable consists of 4 x copper conductor twisted pairs separated by a pair divider, a PE jacket, a strength member and a dry core layer. With Cat 6 performance, this cable guarantees data transmission speeds of up to 1 gigabit per second (1 Gbps). Wrapped in a PE sheath and containing a dry core layer, this cable is protected from both UV rays and the ingress of water, making it an ideal choice for challenging outdoor installations. The NCC6SLDGEL cable from CERTECH is supplied on a 305m wooden reel.

STANDARDS

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

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 U/UTP External Solid Cable Roll 250MHz
- 100% Bare Copper Cable
- 23AWGx4P
- PE Jacket for UV protection
- Integrated pair separator
- Internal strength member
- Dry core layer for moisture protection
- ROHS, RCM and REACH compliant

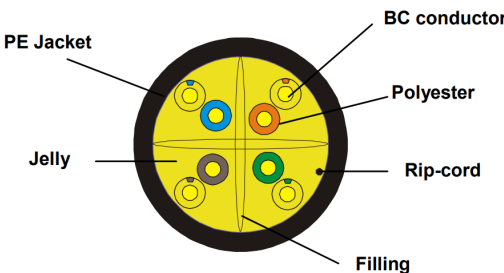
APPLICATIONS

- External cable runs (both aerial/ above ground and underground)
- 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-ZST CAT6-4P-PE				
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:	1.09 ± 0.03mm			
Sheath:	Thickness:	0.60 ± 0.05mm			
	External O.D:	6.8 ± 0.8mm			
	Material:	LDPE			
	Colour:	Black			
	Surface:	Clean, Frap, Satiation			
Surface Printing:	Letter height:	3.0 + 0.3mm			
	Colour:	White			
	Print Error & Space:	≤±0.5%, 1m			
Core Colour:	A. Blue, White-Blue	B. Orange, White-Orange	C. Green, White-Green	D. Brown, White-Brown	
Packing:	Wooden Drum				
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 (%) ≥300			
	Cold Bend:(20±2°Cx4h)	8x Cable O.D. No visible cracks			
Electrical Characteristics:	Impedance (Ω):	1.0-250.0MHz		100± 15	
	1.0-250.0MHz Delay Skew 20°C (ns/100m)		≤45		
	DC Resistance Unbalanced:		in pair ≤2.0%, pair to pair≤4.0%		
	DC Conductor Resistance Unbalance (%):		max 5.0		
Remote Power Data for RP1, RP2 and RP3 calculations:	Operating Temperature		-40 ~ +75°C		
	DC Resistance Ohms per metre		≤9.38Ω/100m		
	(NVP) Nominal Velocity of Propagation:		69%		
Installation Temperature:	-20 ~ +60°C				
Flame Test Method:	No				
Dielectric Strength (Max.)	DC 1000V 1min No Breakdown				
Mutual Capacitance at Frequency	≤5.8nF/100m				
Min. Bending Radius (Pulling)	8 times outer cable diameter				
Min. Bending Radius (Installed)	4 times outer cable diameter				
Operating Frequency:	250MHz				

