

CERTECH 305M Cat6A 10G S/FTP External (Underground) Cable, PE Jacket

NCC6ASFTPGE



DESCRIPTION

The CERTECH 305M Cat6A S/FTP external cable is a high-performance, shielded 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 and a dry core layer. Designed with a strength member for improved pulling tension and drain wire for earth continuity. The cable features an overall braid style shield, as well as individual pair foil shield for optimum noise reduction. With Cat6A performance, this cable guarantees speeds of up to 10 gigabits per second (10 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.

FEATURES

- 305m Cat6 Black S/FTP External Solid Cable Roll 500MHz
- 100% Bare Copper Cable
- 23AWGx4P
- Individual pair foil shield
- Overall braid style shield
- Internal drain wire
- Integrated pair separator
- Internal strength member
- PE Jacket for UV protection
- Dry core layer for moisture protection
- ROHS, RCM and REACH compliant

STANDARDS

- AS/CA S008 (Australian)
- AS 11801 (1-6) (Australian)
- TIA/EIA-568-E (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

- External cable runs (both aerial/ above ground and underground)
- Supports 10GBASE-T Ethernet
- Backwards compatible to 1000BASE-Tx Gigabit Ethernet, 10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3)
- 500 MHz High Bandwidth Audio Visual
- Voice, T1, ISDN
- ONVIF Security Protocol



DESIGNED AND MANUFACTURED TO AUSTRALIAN STANDARDS AND CONDITIONS

SPECIFICATIONS

Category	S/FTP.ZST-CAT6A-4P-PE-TC30																																																																																			
Reference Standard	ISO/IEC11801, ANSI/TIA-568.2-E																																																																																			
Conductor	Material	SOLID-Bare Copper																																																																																		
	Nom.O.D.(mm)	0.560	up	+0.005																																																																																
			down	-0.005																																																																																
Insulation	Material	Skin-foam-skin PE																																																																																		
	Diameter	1.330±0.05 mm																																																																																		
Inner Screening Material	Al/Mylar	Drain wire	Yes																																																																																	
Outer Screening Material	Tinned copper	Coverage	≥30%																																																																																	
Sheath	Thickness	0.55±0.05 mm			Technical Performance (100m) : <table><tr><th>Frequency (MHz)</th><th>RL ≥dB</th><th>ATT ≤dB</th><th>NEXT ≥dB</th><th>DELAY ≤ns</th></tr><tr><td>1</td><td>20.0</td><td>—</td><td>74.3</td><td>570.0</td></tr><tr><td>4.0</td><td>23.0</td><td>3.8</td><td>65.3</td><td>552.0</td></tr><tr><td>8.0</td><td>24.5</td><td>5.3</td><td>60.8</td><td>546.7</td></tr><tr><td>10.0</td><td>25.0</td><td>5.9</td><td>59.3</td><td>545.4</td></tr><tr><td>16.0</td><td>25.0</td><td>7.5</td><td>56.2</td><td>543.0</td></tr><tr><td>20.0</td><td>25.0</td><td>8.4</td><td>54.8</td><td>542.1</td></tr><tr><td>25.0</td><td>24.3</td><td>9.4</td><td>53.3</td><td>541.2</td></tr><tr><td>31.25</td><td>23.6</td><td>10.5</td><td>51.9</td><td>540.4</td></tr><tr><td>62.5</td><td>21.5</td><td>15.0</td><td>47.4</td><td>538.6</td></tr><tr><td>100</td><td>20.1</td><td>19.1</td><td>44.3</td><td>537.6</td></tr><tr><td>200</td><td>18.0</td><td>27.6</td><td>39.8</td><td>536.5</td></tr><tr><td>250</td><td>17.3</td><td>31.1</td><td>38.3</td><td>536.3</td></tr><tr><td>300</td><td>16.8</td><td>34.3</td><td>37.1</td><td>536.1</td></tr><tr><td>500</td><td>15.2</td><td>45.3</td><td>33.8</td><td>535.6</td></tr></table>					Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	1	20.0	—	74.3	570.0	4.0	23.0	3.8	65.3	552.0	8.0	24.5	5.3	60.8	546.7	10.0	25.0	5.9	59.3	545.4	16.0	25.0	7.5	56.2	543.0	20.0	25.0	8.4	54.8	542.1	25.0	24.3	9.4	53.3	541.2	31.25	23.6	10.5	51.9	540.4	62.5	21.5	15.0	47.4	538.6	100	20.1	19.1	44.3	537.6	200	18.0	27.6	39.8	536.5	250	17.3	31.1	38.3	536.3	300	16.8	34.3	37.1	536.1	500	15.2	45.3	33.8	535.6
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	External O.D.	7.6±0.5 mm																																																																																		
	Surface	Clean,Frap,Satiation																																																																																		
	Material	LDPE(complies RoHS)																																																																																		
	Color	Black																																																																																		
Surface Printing	Letter height	3.0±0.3mm																																																																																		
	Color	White																																																																																		
	Print error & Space	≤±0.5%, 1m																																																																																		
Core Color	1 White/Blue	2 White/Orange																																																																																		
	3 White/Green	4 White/Brown																																																																																		
Packing	Drum																																																																																			
Wooden Tray dimension	According to the requires																																																																																			
Packing length	305±1.0m																																																																																			
Rip-cord	Yes																																																																																			
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0																																																																																	
		Elongation(%)	≥350																																																																																	
	Aging Period(℃×hrs)	100℃×24h×10d																																																																																		
	After Aging	Elongation(%)	≥300																																																																																	
		Cold bend(-20±2℃×4h)	8×Cable O.D., No visible cracks																																																																																	
Electrical Characteristics (20℃)	Impedance(Ω)	1.0-250.0MHz	100±15																																																																																	
		250.0-500.0MHz	100±22																																																																																	
	1.0-500.0MHz	Delay Skew (ns/100m)	≤45																																																																																	
	Unbalanced-to-ground capacitance(pf/100m)max		330																																																																																	
	DC Resistance (Ω/100m) max		9.38																																																																																	
	DC Conductor Resistance Unbalance (%) max		5.0																																																																																	

