



Trident CAT6 UTP P.E. Black

Key Features

- P.E. Sheath
- 305mtr box & Cut to Length
- UTP Shield
- Metre Marked
- Solid Wire 23 AWG
- 30 Year System Warranty Available

Cable Type:

CAT6 UTP P.E.

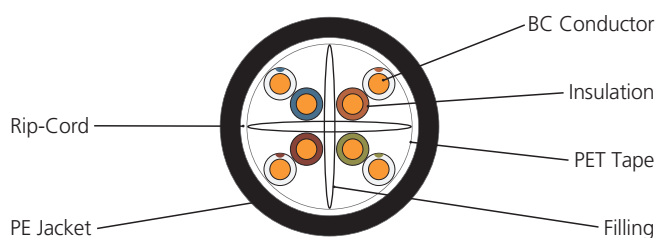
Part No: TRI-000169

General Description:

Suitable for external installations requiring performances up to 250MHz.

Relevant Standards:

ISO/IEC 11801, TIA-568-C.2



Cable Construction:

Material Breakdown:

Conductor	Solid Bare Copper	
	Nom. O.D. (mm)	0.550 up +0.005 0.550 down -0.005
Insulation	HDPE	Diameter: 0.95+0.05mm
Sheath	Thickness	0.55 + 0.05mm
	External O.D.	6.3 + 0.5mm
	Surface	Clean, Frap, Satiation
	Material	LDPE (complies RoHS)
	Colour	Black
Shield	PET Tape	
Surface Printing	Letter Height	3.0 + 0.3mm
	Colour	White
	Print Error & Space	<+ 0.5%, 1m
Core Colour	1 White-Blue /Blue	2 White-Orange /Orange
	3 White-Green /Green	4 White-Brown /Brown
Packaging	Wooden Tray & Carton	
	Packing Length: Cut to Length & 305m +/- 1.5m	
	Rip Cord: Yes	Drain Wire: No

Sheath Physical Properties:

Before Aging Tensile Strength (Mpa)		
Elongation (%)	≥10.0	≥350
Aging Period (°C x hrs.)	100°C x 24h x 7d	
After Aging Tensile Strength (Mpa)	TBC	
After Aging Elongation (%)	≥300	
Cold bend (-20±2°C x 4h)		No visible cracks

Electrical Characteristics (20°C):

1.0-250.0 MHz	Impedance (Ω) 100±15
1.0-250.0 MHz	Delay Skew (ns/100m) <45
DC Resistance (Ω/100m) max	9.38
DC Conductor Resistance Unbalance (%)max	5.0

Technical Performance (100m):

Frequency (MHz)	RL >dB	ATT (20°C) <dB	Next ≥dB	Phase Delay ≥dB
1	20.0	2.03	74.3	570.00
4	23.0	3.78	65.3	552.00
8	24.5	5.32	60.8	546.73
10	25.0	5.95	59.3	545.38
16	25.0	7.55	56.2	543.00
20	25.0	8.47	54.8	542.05
25	24.3	9.51	53.3	541.20
31.25	23.6	10.67	51.9	540.44
62.5	21.5	15.38	47.7	538.55
100	20.1	19.80	44.3	537.60
200	18.0	28.98	39.8	536.54
250	17.3	32.85	38.3	536.27

Frequency (MHz)	PSNEXT >dB	ELFEXT ≥dB	-	PSELFEXT ≥dB
1	72.3	67.8	-	64.8
4	63.3	55.8	-	52.8
8	58.8	49.7	-	46.7
10	57.3	47.8	-	44.8
16	54.2	43.7	-	40.7
20	52.8	41.8	-	38.8
25	51.3	39.8	-	36.8
31.25	49.9	37.9	-	34.9
62.5	45.4	31.9	-	28.9
100	42.3	27.8	-	24.8
200	37.8	21.8	-	18.8
250	36.3	19.8	-	16.8