



Trident Cat5e UTP PE External



Key Features

- PE Sheath
- 305mtr box & Cut to Length
- UTP Shield
- Metre Marked
- Solid Wire 24 AWG
- 30 Year System Warranty Available

Cable Type:

CAT5e UTP PE

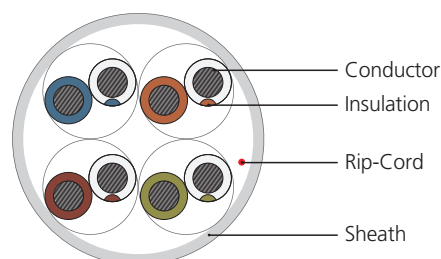
Part No: TRI-000729

General Description:

Suitable for all installations requiring performances up to 100MHz.

Relevant Standards:

ISO/IEC11801, TIA/EIA-568-C.2



Cable Construction:

Material Breakdown:

Conductor	Solid Bare Copper	
	Nom. O.D. (mm)	0.48 up +0.008 0.48 down -0.008
Insulation	HDPE	Diameter: 0.90+0.01mm
Sheath	Thickness	0.55 + 0.05mm
	External O.D.	5.0 + 0.5mm
	Material	PE (complies RoHS)
	Colour	Black
Core Colour	1 White-Blue /Blue	2 White-Orange /Orange
	3 White-Green /Green	4 White-Brown /Brown

Sheath Physical Properties:

Before Aging Tensile Strength (Mpa)	≥13.5	
Elongation (%)	≥150	
Aging Period (°C x hrs.)	100°C x 24h x 7d	
After Aging Tensile Strength (Mpa)	>12.5	
After Aging Elongation (%)	≥125	
Cold bend (-20±2°C x 4h)	8 x Cable O.D.	No visible cracks


Electrical Characteristics (20°C):

1.0-100.0 MHz	Impedance (Ω) 100 \pm 15
1.0-100.0 MHz	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

Technical Performance (100m):

Frequency (MHz)	RL >dB	ATT (20°C) <dB	Next \geq dB	Phase Delay \geq 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

Frequency (MHz)	PSNEXT >dB	ELFEXT \geq dB	-	PSELFEXT \geq 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