



TECHNICAL SPECIFICATIONS

TrueNet® C6T 4 Pair Outdoor Cable

Construction:

Conductor: 23 AWG solid bare copper
 Insulation: Polyolefin
 Filler: Polyolefin star
 Core Tape: Moisture barrier core wrap
 Jacket: Linear Low Density Polyethylene, Black 0.260" (6.6mm) nominal O.D.

Compliances:

ETL Verified TIA/EIA-568-B.2-1 Category 6 Horizontal Cable Requirements
 ISO/IEC 11801 Category 6 Horizontal Cable Requirements

Common Applications:

4/16 Mb/s Token Ring (IEEE 802.5)	100VG-Any LAN (IEEE 802.12)
10BASE-T (IEEE 802.3)	52/155 Mb/s ATM (ATM Forum)
100 Mb/s TP-PMD	622 Mb/s ATM (ATM Forum)
Broadband & Baseband Video	1000BASE-T (Gigabit Ethernet)
100BASE-T ("Fast Ethernet")	1 Gigabit Networking System (WGNA)
100BASE-T4 ("Fast Ethernet")	1.2 Gb/s ATM (ATM Forum)
100BASE-TX ("Fast Ethernet")	77 Channel Broadband Video

Thermal Characteristics:

Transport and Storage: -20°C to 75°C
 Installation: 4°C to 50°C
 Operation: -20°C to 75°C

Mechanical Characteristics:

Bend Radius:
 During Installation: 8 X O.D.
 Installed: 4 X O.D.
 Pull Tension: 25# (110N)

Electrical Characteristics:

Conductor DC Resistance @ 20°C (Max): 28.6 Ω/1000 ft (9.38 Ω/100 m)
 DC Resistance Unbalance (Max): 2%
 Mutual Capacitance @ 20°C (Max): 17 pF/ft (5.6nF/100 m)
 Operating Voltage (Max): 300 VDC
 Worst Case Cable Skew: 45 ns/100 m
 Nominal Velocity of Propagation: 66%

Ordering Information:

PRODUCT NUMBER	WEIGHT		PACKAGING
	LBS/KFT	KG/KM	
TN6TOSP-BK02	29	42.5	1,000' Reel



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FREQ MHZ	FITTED IMPEDANCE Ohms	INSERTION LOSS dB/100m		RETURN LOSS dB/100m		PAIR-PAIR NEXT dB/100m		PSNEXT dB/100m	
	Spec	Max	Spec	Min	Spec	Min	Spec	Min	Spec
1	100 +/- 3	1.7	2.0	26.2	20.0	83.9	74.3	80.8	72.3
4	100 +/- 3	3.4	3.8	33.8	22.9	80.0	65.3	76.4	63.3
8	100 +/- 3	4.8	5.3	34.5	24.5	74.0	60.8	72.3	58.8
10	100 +/- 3	5.4	6.0	37.2	25.0	68.6	59.3	67.5	57.3
16	100 +/- 3	6.8	7.6	33.5	25.0	71.0	56.2	68.8	54.2
20	100 +/- 3	7.6	8.5	34.8	25.0	62.7	54.8	62.2	52.8
25	100 +/- 3	8.6	9.5	36.1	24.3	59.1	53.3	58.6	51.3
31.25	100 +/- 3	9.6	10.7	38.8	23.6	67.2	51.9	64.7	49.9
62.5	100 +/- 3	13.6	15.4	35.2	21.5	56.8	47.4	54.1	45.4
100	100 +/- 3	17.3	19.8	35.0	20.1	53.7	44.3	52.1	42.3
155	100 +/- 3	21.7	25.2	32.8	18.8	53.6	41.4	51.9	39.4
200	100 +/- 3	24.8	29.0	32.9	18.0	47.3	39.8	45.7	37.8
250	100 +/- 3	27.8	32.8	31.3	17.3	49.1	38.3	47.2	36.3
300	100 +/- 3	30.6	-	31.3	-	49.4	-	46.5	-
350	100 +/- 3	33.1	-	30.0	-	49.1	-	46.7	-
400	100 +/- 3	35.5	-	26.6	-	41.3	-	40.6	-
550	100 +/- 3	42.1	-	22.3	-	42.1	-	40.4	-

FREQ MHZ	PAIR-PAIR ACR dB/100m		PSACR dB/100m		PAIR-PAIR ELFEXT dB/100m		PSELFEXT dB/100m		LCL dB/100m
	Min	Spec	Min	Spec	Min	Spec	Min	Spec	Min
1	82.3	72.3	79.2	70.3	79.4	67.8	75.1	64.8	40.0
4	76.6	61.5	73.1	59.5	67.7	55.8	63.3	52.8	40.0
8	69.4	55.4	67.5	53.4	61.6	49.7	57.3	46.7	40.0
10	63.4	53.3	62.2	51.3	59.4	47.8	55.2	44.8	40.0
16	64.2	48.7	62.0	46.7	54.8	43.7	51.3	40.7	38.0
20	55.3	46.3	54.7	44.3	52.5	41.8	49.6	38.8	37.0
25	50.8	43.8	50.1	41.8	49.6	39.8	47.4	36.8	36.0
31.25	57.8	41.2	55.4	39.2	47.6	37.9	45.6	34.9	35.1
62.5	43.4	32.0	40.8	30.0	42.4	31.9	39.7	28.9	32.0
100	36.9	24.5	35.3	22.5	38.3	27.8	35.5	24.8	30.0
155	32.1	16.3	30.4	14.3	37.6	24.0	34.7	21.0	28.1
200	23.0	10.8	21.0	8.8	35.1	21.8	33.3	18.8	27.0
250	21.9	5.5	20.0	3.5	27.5	19.8	26.8	16.8	26.0
300	19.8	-	16.8	-	25.3	-	23.9	-	-
350	16.3	-	14.0	-	27.3	-	25.0	-	-
400	6.2	-	5.5	-	29.4	-	27.6	-	-
550	1.0	-	-	-	23.9	-	23.7	-	-

NOTE: The above listed discrete frequency electrical performance values are provided for engineering information only. Actual compliance testing is based on swept frequency measurements. The spec values are based on TIA/EIA-568-B.2-1 specification.