

Comtran Design Specification

Category 6 Plenum UTP

(Tested to 250 MHz.)

8600 - Blue

8601 - White

Construction:

- * Conductors: 24 AWG Solid Bare Copper per ASTM B-3
- * Insulation: FEP
- * Pair Assembly: Color Coded Conductors twisted to varying lays
- * Cable Assembly: 4 Pairs cabled into web channels to form round core
- * Jacket: Complex Plenum compound
Nominal OD = .215"
- * Ripcord: Ripcord provided under jacket
(Sequential Footage Markers Provided)

Features:

- * Superior 4 pair balance for increased margins
- * Low skew and Propagation delay
- * Small compact round design
- * Complete pair isolation throughout cable length using web
- * Extended Bandwidth (increased Headroom)
- * Excellent Cross Talk characteristics
- * Custom Print legends, Put-up's and Special colors per request

Compliance's:

- * UL Verified to NEMA WC-66-1999
- * TIA/EIA-568A Cat 6 (Recent Draft)
- * UL Subject 444 Communications Cables
- * UL Listed type MPP/CMP
- * UL 910 Plenum Flame Test
- * NEC Article 800
- * c(UL) Type CMP
- * ICEA S-90-661
- * California State Fire Marshal

Common Applications:

- * Gigabit Ethernet (1000Base-T)
- * Multimedia & ISDN
- * High speed Voice/Data applications
- * 1.2 Gbps Ethernet
- * Broadband Video
- * Desktop Publishing
- * Video Conferencing/Imaging

Category 6 Electricals

(per Nema WC-66-1999)

	Char. Impedance	Return Loss	Attenuation	NEXT	PSNEXT	ELFEXT	PSELFEXT
Freq.	(Ohms)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
(MHz.)	(+/- 6)	(Min)	(Max)	(Min)	(Min)	(Min)	(Min)
1	100	19	2	74.3	72.3	67.8	64.8
4	100	21.4	3.8	65.3	63.3	55.7	52.7
8	100	22.6	5.4	60.8	58.8	49.7	46.7
10	100	23	6	59.3	57.3	47.8	44.8
16	100	23	7.7	56.3	54.3	43.7	40.7
20	100	23	8.6	54.8	52.8	41.7	38.7
25	100	22.3	9.6	53.3	51.3	39.8	36.8
31.25	100	21.6	10.8	51.9	49.9	37.9	34.9
62.5	100	19.5	15.7	47.4	45.4	31.8	28.8
100	100	18.1	20.2	44.3	42.3	27.8	24.8
125	100	17.4	22.9	42.9	40.9	25.8	22.8
155.52	100	16.8	25.8	41.4	39.4	23.9	20.9
175	100	16.4	27.6	40.7	38.7	22.9	19.9
200	100	16	29.8	39.8	37.8	21.7	18.7
250	100	15.3	33.8	38.3	36.3	19.8	16.8
ACR (min) @ 100 Mhz. = 24.1 dB/100m				Mutual Cap. = 14pf/ft		DC Res. = 7.1 Ohms/100m	
ACR (min) @ 200 Mhz. = 10.0 dB/100m				Operation Temperature: -10 Celcius to 75 Celcius			
Nominal Velocity of Propagation (NVP) = 71%				Propagation Delay Skew: 45 ns/100m (max)			

This criteria will help ensure that your cabling system has the additional headroom needed to meet application requirements of the Future!

(Information Subject to change without notice)

Comtran Corporation

One Main Street, Whitinsville, MA 01588

Phone: 508-234-6256

Fax: 508-234-7132

website: www.comtrancorp.com

Email: ctc1main@aol.com

