Comtran Cable LLC
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Design Specification
Category 6 Plenum UTP

Construction:
* Conductors: 23 AWG Solid Bare Copper per ASTM B-3
* Insulation: Fluoropolymer
* Pair Assembly: Color Coded Conductors twisted to varying lays
* Cable Assembly: 4 Pairs cabled with separator to form round core
* Jacket: Color Coded Plenum PVC
  Nominal OD = .204"
*Ripcord: Ripcord provided under jacket
(Increasing/Decreasing Footage Markers Provided)

Compliance:
* ETL Verified ANSI/TIA-568-C.2-1 Cat 6
* UL Subject 444 Communications Cables
* UL Listed type CMP
* NFPA 262 Plenum Flame Test (UL910)
* NEC Article 800
* c(UL) Type CMP
* ICEA S-90-661
* California State Fire Marshal
* RoHS Compliant

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

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 ANSI/TIA 568-C.2)

	Char. Impedance	Return Loss	Attenuation	NEXT	PSNEXT	ACRF	PSACRF
Freq.	(Ohms)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
(MHz.)	(+/-15)	(Min)	(Max)	(Min)	(Min)	(Min)	(Min)
1	100	20	2	74.3	72.3	67.8	64.8
4	100	23	3.8	65.3	63.3	55.7	52.7
8	100	24.5	5.3	60.8	58.8	49.7	46.7
10	100	25	6	59.3	57.3	47.8	44.8
16	100	25	7.6	56.3	54.3	43.7	40.7
20	100	25	8.5	54.8	52.8	41.7	38.7
25	100	24.3	9.5	53.3	51.3	39.8	36.8
31.25	100	23.6	10.7	51.9	49.9	37.9	34.9
62.5	100	21.5	15.4	47.4	45.4	31.8	28.8
100	100	20.1	19.8	44.3	42.3	27.8	24.8
125	100	19.4	22.4	42.9	40.9	25.8	22.8
155.52	100	18.8	25.2	41.4	39.4	23.9	20.9
175	100	18.4	26.9	40.7	38.7	22.9	19.9
200	100	18	29	39.8	37.8	21.7	18.7
250	100	17.3	32.8	38.3	36.3	19.8	16.8
ACR (min) @ 100 MHz = 24.1dB/100m				Mutual Cap. = 14pf/ft		DC Res.= 7.1 Ω/100m	
ACR (min) @ 200 MHz = 10.0 dB/100m				Operating Temperature: -10c to 75c			
Nominal Velocity of Propagation (NVP) = 72%				Propagation Delay Skew: 45 ns/100m (max)			

Part#	Color
34277	Green
34481	Yellow
34932	Gray
35334	Red
35675	Violet
38600	Blue
38601	White

(Information Subject to change without notice)

DRAWING	REV.	DATE	DRWN.	APP.	REMARKS	38601
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38601	.13	2/11/11	2me	RHW	Revised Format	