



Comtran Cable LLC
330A Turner Street
South Attleboro, MA 02703-7714
(P) 508-399-7004
(F) 508-399-7360
www.ComtranCorp.com

Design Specification Category 6 Riser UTP

Construction:

- * Conductors: 23 AWG Solid Bare Copper per ASTM B-3
- * Insulation: Polyethylene
- * Pair Assembly: Color Coded Conductors twisted to varying lays
- * Cable Assembly: 4 Pairs cabled to form round core
- * Jacket: Color coded FR-PVC
Nominal OD = .200"
- * Ripcord: Ripcord provided under jacket
(Increasing/Decreasing Footage Markers Provided)

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

Compliance:

- * ETL Verified ANSI/TIA-568-C.2 Cat 6
- * UL Subject 444 Communications Cables
- * UL Listed type CMR
- * UL 1666 Riser Flame Test
- * NEC Article 800
- * c(UL) Type CMR
- * ICEA S-90-661
- * California State Fire Marshal
- * RoHS Compliant
- * Voltage Rating 300

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.2-1)

	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)			

35184	Yellow
35697	Violet
38677	Blue
38678	White
35882	Gray

(Information Subject to change without notice)

JACKET PRINT LEGEND: COMTRAN CABLE LLC CAT6 250 MHz 23 AWG CMR C(UL)US ETL=VERIFIED TO
ANSI/TIA-568-C.2 CATEGORY 6 RoHS (01-12345) 0/1000



DRAWING	REV.	DATE	DRWN.	APP.	REMARKS	38678
38677	13	10/30/12	BAL	JB	Removed tape	
38678	12	10/03/12	BAL	JB	Added Voltage Rating	
38678	.11	3/17/11	2me	RHW	Revise PNs/Add Violet PN	
38678	.10	12/7/10	2me	RHW	Revised Format	Page 1 of 1



A Marmon Wire & Cable/Berkshire Hathaway Company