



Comtran Cable LLC
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Design Specification Category 6 Plenum F/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 cross web separator to form round core
- * Binder: Polyester core wrap
- * Drain Wire: 24 AWG tinned copper
- * Shield: Aluminum/Polyester (aluminum side in)
- * Jacket: Flame-Retardant-PVC
Nominal OD = .280"

Compliance:

- * ETL Verified ANSI/TIA-568-C.2 Cat 6
- * UL Subject 444 Communications Cables
- * UL Listed type CMP
- * UL 910 Plenum Flame Test
- * NEC Article 800
- * c(UL)us Type CMP
- * ICEA S-102-700
- * California State Fire Marshal
- * RoHS Compliant
- * Voltage Rating 300

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

Common Applications:

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

Category 6 Electricals

(Per ANSI/TIA 568-C.2)

	Char. Impedance	Return Loss	Attenuation	NEXT	PSNEXT	ACRF	PSACRF
Freq. (MHz.)	(Ohms) (+/-15)	(dB) (Min)	(dB/100m) (Max)	(dB/100m) (Min)	(dB/100m) (Min)	(dB/100m) (Min)	(dB/100m) (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	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

(Information Subject to change without notice)

Color	Part#
BLUE	35941
WHITE	35940
GRAY	35942
GREEN	35939

JACKET PRINT LEGEND:

COMTRAN CABLE LLC COM-Link CAT 6 250MHZ 23 AWG SHIELDED CMP C(UL)US
ETL VERIFIED TO ANSI/TIA-568-C.2 CATEGORY 6 RoHS (01-12345) 0/1000

DRAWING	REV.	DATE	DRWN.	APP.	REMARKS	35941
35941	01	6/26/13	BAL	JB	Initial Release	Page 1 of 1



A Marmon Wire & Cable/Berkshire Hathaway Company