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Design Specification

Category 5e Power Sum Plenum

(Tested to 100 MHz.)

35480 – Blue

Description: 24 AWG, 25 Pair CMP Category 5e Power Sum Communications Cable

Compliance:

- * UL 444 Communications Cables
- * ETL Verified TIA568-B.2 (Cat 5e)
- * UL Listed type CMP
- * C(UL) Listed type CMP
- * NFPA 262 Plenum Flame Test (UL910)
- * NEC Article 800
- * CSA C22.2 No.214
- * ICEA S-80-576
- * California State Fire Marshal
- * Reduction of Hazardous Substances (RoHS)

Construction:

- * Conductors: 24 AWG Solid Bare Copper per ASTM B-3
- * Insulation: Fluoropolymer
Nominal OD = .037"
- * Pair Assembly: Color Coded Conductors twisted to varying lays
- * Cable Assembly: 25 Pairs cabled to form round core
- * Jacket: Blue Plenum Thermoplastic
Nominal OD = .455"
- * Ripcord: Ripcord provided under jacket
(Sequential Footage Marker Provided)

SURFACE PRINT: COMTRAN CAT 5E POWER SUM CABLE (01-12345) CMP C(UL)US 25 PR 24 AWG -
 ETL VERIFIED TO TIA-568-B.2 CAT 5E RoHS 000002

Common Applications:

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> * Gigabit Ethernet (1000Base-T) * High speed Voice/Data applications * 100Base-TX | <ul style="list-style-type: none"> * Video to the Desktop * ISDN * 100Base-T | <ul style="list-style-type: none"> * Multimedia * 55/155 Mbps ATM * 100Base VG-AnyLan |
|---|---|--|

Category 5e Electricals

(per TIA-568-B.2)

	Characteristic Impedance	Return Loss	Attenuation	NEXT	PSNEXT	ELFEXT	PSELFEXT
Freq. (MHz.)	(Ohms)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
	(+/-15)	(Min)	(Max)	(Min)	(Min)	(Min)	(Min)
1	100	20	2	65.3	62.3	63.8	60.8
4	100	23	4.1	56.3	53.3	51.7	48.7
8	100	24.5	5.8	51.8	48.8	45.7	42.7
10	100	25	6.5	50.3	47.3	43.8	40.8
16	100	25	8.2	47.2	44.3	39.7	36.7
20	100	25	9.3	45.8	42.8	37.7	34.7
25	100	24.3	10.4	44.3	41.3	35.8	32.8
31.25	100	23.6	11.7	42.9	39.9	33.9	30.9
62.5	100	21.5	17	38.4	35.4	27.8	24.8
100	100	20.1	22	35.3	32.3	23.8	20.8
Temp. Rating: 75c				Mutual Cap. = 14pf/ft		DC Res. = 9.38Ω/100m	
Nominal Velocity of Propagation (NVP) = 70%				Propagation Delay Skew: 45 ns/100m (max)			

Information Subject to change without notice

DRAWING	REV.	DATE	DRWN.	APP.	REMARKS	35480
5480	.02	3/26/10	2me	RHW	Revise Print	
5480	.01	08/28/09	2me	RHW	Initial spec	Page 1 of 1