



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 5e Power Sum PVC

(Tested to 100 MHz.)

35302 – Gray

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

Compliance:

- * UL 444 Communications Cables
- * ETL Verified TIA568-B.2 (Cat 5e)
- * UL Listed type CMR
- * C(UL) Listed type CMR
- * UL 1666 Riser Flame Test
- * 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: Polyethylene
Nominal OD = .038"
- * Pair Assembly: Color Coded Conductors twisted to varying lays
- * Cable Assembly: 25 Pairs cabled to form round core
- * Jacket: Medium Gray Flame Retardant PVC
Nominal OD = .520"
- * Ripcord: Ripcord provided under jacket
(Sequential Footage Marker Provided)

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

Common Applications:

- | | | |
|--------------------------------------|------------------------|---------------------|
| * Gigabit Ethernet (1000Base-T) | * Video to the Desktop | * Multimedia |
| * High speed Voice/Data applications | * ISDN | * 55/155 Mbps ATM |
| * 100Base-TX | * 100Base-T | * 100Base VG-AnyLan |

Category 5e Electricals

(per TIA-568-B.2)

	Characteristic Impedance	Return Loss	Attenuation	NEXT	PSNEXT	ELFEXT	PSELFEXT
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	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	35302
5302	.04	10/29/09	2me	RHW	Revise ODs	
5302	.03	12/05/08	rhw	RHW	Corrected drawing number	
5302	.02	06/30/08	rhw	RHW	Add RoHS	
5302	.01	05/01/08	2me	RHW	Initial spec	
Page 1 of 1						