



# PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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**PART NUMBER:** 977964  
**DESCRIPTION:** 23 AWG /4 Pair PLENUM CATEGORY 6 DATA CABLE  
**COMPLIANCE:**

- UL Listed Type CMP
- C(UL) listed CMP FT6
- ETL Verified to TIA/EIA 568B.2-1
- Meets or exceeds TIA/EIA 568B-B.2-1

**APPLICATION:** Utilizes a small round filler design providing a smaller diameter and greater flexibility for easier handling.

## Construction Parameters:

Conductor	23 AWG Solid Bare Copper	<b>DIAMETER*</b>
Dielectric	Solid FEP	0.023
Assembly	Each pair has different lay length for cross-talk prevention and ripcord added.	0.040
Jacket	PVC	0.210

\* = Nominal value

## Product Electrical Characteristics:

Freq (MHZ)	Attn. (dB/100m) Max	Next Loss (dB) Min	PSNEXT Loss (dB) Min	ACR (Db@100m) Min	PSACR (dB@100m) Min	ELFEXT (dB@100m) Min	PS-ELFEXT (dB@100m) Min	Ret. Loss (dB)
1	2	74.3	72.3	72.3	70.3	67.8	64.8	20.0
10	6	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.6	46.6	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32.0	30.0	31.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
200	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0
250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3
350	40.0	36.2	34.2	-----	-----	16.9	13.9	16.3
400	43.2	35.3	33.3	-----	-----	15.7	12.7	15.9

Mutual Capacitance (nf / 100m) Nominal	4.4
DC Resistance (Ohms / 100 m) Maximum	8.9
Delay Skew (ns / 100 m) Maximum	25
Velocity of Prop. (1%)	72
Input Impedance (Ohms @ 1-100 Mhz)	100+/-15
(Ohms @ 100-500 Mhz)	100+/-32

**Pair Colors:** W/BL with BL, W/OR with O, W/GR with GR, W/BR with BR  
**Jacket Color:** Standard colors are Blue and Gray

**Legend (Ink Print)** CAT 6 COLEMAN CABLE 977964 CAT 6 23 AWG 4P (UL) E118964-G TYPE CMP OR C(UL) FT6 (UL) VERIFIED TO TIA/EIA-568-B.2-1 CAT 6 TESTED TO 600 MHZ CAT 6  
*(Also printed with sequential footage & date code)*

**Flame Rating:** NFPA 262 Steiner Tunnel Smoke and Flame Test  
 CSA FT6 Horizontal Flame and Smoke Test

**Applicable NEC Article:** 800  
**Applicable NEMA Spec:** WC-66 (Category 6)  
**Approx. Weight (Lb/1000 ft):** 24

*This product complies with European Directive 2002/95/EC (RoHS)*

On special orders, the customer will accept all mil lengths and +/- 10 percent of total order requested.

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Customer Name \_\_\_\_\_

Customer Approval \_\_\_\_\_

Specification Issue Date: May 1, 2006