



PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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PART NUMBER: 977964
DESCRIPTION: 23 AWG /4 Pair Category 6 CMP
COMPLIANCE:
➤ (UL) Listed Type CMP
➤ C(UL) Listed CMP FT6
➤ (UL) Verified to TIA/EIA 568-C.2
➤ Tested to 600 MHz

Construction Parameters:

Conductor	23 AWG Solid Bare Copper	DIAMETER*
Dielectric	FEP and FRPO	0.022"
Assembly	Each pair has different lay length for cross-talk prevention and ripcord added.	0.039"
Jacket	PVC	0.200"

* = Nominal value

Product Electrical Characteristics:

Max Capacitance (nF/100m @ 1 kHz)	Max DC Resistance (Ω/100m @ 20°C)	Max Delay Skew (ns/100m)	Nom Velocity of Propagation (%)	Characteristic Impedance (Ω @ 1-100 MHz)	Characteristic Impedance (Ω @ 100-250 MHz)
5.6	9.38	45	71	100 +/- 15	100 +/- 22

Freq (MHz)	Max Insertion Loss (dB/100m)	Min NEXT Loss (dB)	Min PSNEXT Loss (dB)	Min ACR (dB/100m)	Min PSACR (dB/100m)	Min ACRF (dB/100m)	Min PSACRF (dB/100m)	Min Return Loss (dB)
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25
16	7.6	56.2	54.2	48.6	46.6	43.7	40.7	25
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25
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	30	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
300	36.4	37.1	35.1	0.7	-	18.3	15.3	16.8
400	43.0	35.3	33.3	-	-	15.8	12.8	15.9
500	48.9	33.8	31.8	-	-	13.8	10.8	15.2
600	54.5	32.6	30.6	-	-	12.2	9.2	14.7

* Note that values above 250 MHz are not guaranteed and are for engineering reference only.

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

Legend (Ink Print) CAT6 COLEMAN CABLE 977964 CAT6 23 AWG 4 PR UL C(UL) CMP--- FT6 TESTED TO 600 MHZ---
VERIFIED (UL) ANSI/TIA 568C.2 CAT6
(Also printed with sequential footage & date code)

This product complies with European Directive 2011/65/EU (RoHS-2)

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 _____

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