



PRODUCT DATA SHEET

Controlled Document – Engineering Drive

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PART NUMBER: 996212
DESCRIPTION: 24 AWG / 12 PAIR RISER CATEGORY 3 DATA CABLE *Com-Lan 3*
RATING: C(UL)US DUAL LISTED CMR, CMR-FT4

Construction Parameters:

		<u>DIAMETER*</u>
Conductors:	Solid Copper	0.020
Dielectric:	Solid PVC	0.035
Pair lays:	Each pair has different lay length for cross-talk prevention	-
Ripcord:	Polyester	-
Jacket:	PVC	0.320

Electrical Properties:

DC Resistance Max.(ohms/m @ 20° C):	9.38	Attenuation Max.(db/100m):	256 kHz	1.3
DC Resistance Unbalance Max.(%):	5		512 kHz	1.8
Characteristic Impedance (ohms):	1-16 MHz 85-115		772kHz	2.2**
Pair-to-Ground Cap. Unbal. Max.(pF/100m):	330		1.0 MHz	2.6**
Worst-Pair NEXT Min (dB):	772 kHz 43**		4.0 MHz	5.6**
	1.0 MHz 41**		8.0 MHz	8.5**
	4.0 MHz 32**		10.0 MHz	9.7**
	8.0 MHz 27**		16.0 MHz	13.1*
	10.0 MHz 26**			*
	16.0 MHz 23**			

The (**) values are for information only. The min. NEXT coupling loss for any pair combination at room temp. is to be greater than the value determined using the formula $NEXT(F_{MHz}) \geq NEXT(0.772) - 15 \log_{10}(F_{MHz}/0.772)$ for all freq. in the range of 772 MHz-100 MHz for a min. length of 100 m.

The (**) values are for information only. The Max Att. Loss for any pair at room temp. is determined using the formula:
 $Att_F = 0.2 \cdot 32[SQR(f)] + 0.238[SQR(f)]$

Structural Return	1.0- 10.0 MHz	12
Loss Min. (dB):	16.0 MHz	10**

The (**) values are for information only. The SRL is to be determined using the formula $SRL_F \geq SRL_{20} - 10 \log_{10}(F/20)$

Miscellaneous Information:

Pair Colors: Standard Telephone Color Code with Bandmarks (W/BI, W/O, etc)
 Jacket Color: Typical Gray or Beige (others available)
 Jacket Print: CAT 3 COLEMAN CABLE 996212 E118963T 24 AWG TYPE CMX OUTDOOR
 CMR C(UL)US CAT3 SEQ FTG FT4 DATE CODE REEL# CAT3
 CAT3
 Flame rating: UL-1666 Vertical Shaft Flame Test
 CSA FT4 Vertical Flame Test
 Applicable NEC Article: 800
 Applicable TIA/EIA: 568-A
 Approx. Weight (lb/1000 ft): 46

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

On special orders the customer will accept all factory lengths and $\pm 10\%$ of total order requested.

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Company Name: _____

Customer Approval: _____

Date: _____

Issued: 09/11/06

* = Nominal value
 By: PEP