

PLEN-LAN 3 DATA CABLE

PART NO.	CBL-24/8NAT-PLN
Description	24 AWG 4-pair plenum Category 3 data cable
Ratings	UL Standard 444, ICEA S-90-661, EIA/TIA-568-B.2 UL & c(UL) Type CMP
Certifications	Category 3

CONSTRUCTION PARAMETERS

	Information	Diameter (in.)
Conductors	Solid bare copper	0.020
Insulation	Low smoke PVC	0.035
Pair Lays	Each pair has different lay length for crosstalk prevention.	
Rip cord	Polyester	
Jacket	Low smoke PVC	0.15

ELECTRICAL AND ENVIRONMENTAL PROPERTIES

DC Resistance Maximum	9.38 (ohms/100 m @ 20 °C)	
Mutual Capacitance (nominal)	18 pF/ft @ 1 kHz	
Characteristic Impedance (ohms)	1–16 MHz	85-115 (minimum-maximum)
Worst-pair Near-end Crosstalk Minimum	Hz	dB
	772 kHz	43**
	1.0 MHz	41**
	4.0 MHz	32**
	8.0 MHz	27**
	10.0 MHz	26**
	16.0 MHz	23**

The (**) values are for information only. The minimum NEXT coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula $NEXT (F\text{MHz})^2 \geq NEXT(0.772) - 15 \log_{10}(F\text{MHz}/0.772)$ for all frequencies in the range of 772 kHz to 16 MHz for a minimum length of 100 m.

Attenuation Maximum (db/100 m)	Hz	dB
	772 kHz	2.2*
	1.0 MHz	2.6*
	4.0 MHz	5.6*
	8.0 MHz	8.5*
	10.0 MHz	9.7*
	16.0 MHz	13.1*

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

Continued on next page >>

PLEN-LAN 3 DATA CABLE (CONTINUED)

APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white, white/brown with brown/white
Jacket Color	Natural
Jacket Print	CAT3 JOHNSON CONTROLS-METASTAT CABLE (PLENUM) 24 AWG TYPE CMP OR MPP VERIFIED (UL) CAT 3 C(UL) (ETL) VERIFIED TO CAT3 FT6 CAT3 NORTHFLEX (also printed with sequential footage, date code and reel #)
Flame Rating	UL: UL-910 c(UL): FT6
Applicable NEC Article	800
Applicable TIA/EIA	568-B.2
Approximate Cable Weight	17 lbs/1,000 ft
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.