# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 88109 Multi-Conductor - Low Cap. Computer Cable for EIA RS-232/422/485 Applications



For more Information please call

1-800-Belden1



#### **General Description:**

**Operating Temperature Range:** 

CEC/C(UL) Specification:

EU Directive 2011/65/EU (ROHS II):

24 AWG stranded (7x32) tinned copper conductors, plenum, foam FEP insulation, twisted pairs, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, fluorocopolymer jacket.

### **Physical Characteristics (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material 24 | 7x32 TC - Tinned Copper **Total Number of Conductors:** 18 Insulation Insulation Material: **Insulation Material** Wall Thickness (in.) FFEP - Foam Fluorinated Ethylene Propylene 0.015 **Outer Shield** Outer Shield Material: Outer Shield Trade Name Type Outer Shield Material Coverage (%) Tape | Aluminum Foil-Polyester Tape | 100 Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material 24 7x32 TC - Tinned Copper **Outer Jacket Outer Jacket Material:** Outer Jacket Material Nom. Wall Thickness (in.) PVDF - Fluorocopolymer | 0.014 **Overall Cable Overall Nominal Diameter:** 0.352 in. Pair Pair Color Code Chart: Number Color White/Blue & Blue/White White/Orange & Orange/White White/Green & Green/White White/Brown & Brown/White White/Gray & Gray/White Red/Blue & Blue/Red Red/Orange & Orange/Red Red/Green & Green/Red Red/Brown & Brown/Red **Mechanical Characteristics (Overall)**

# Bulk Cable Weight: 65 lbs/1000 ft. Max. Recommended Pulling Tension: 104 lbs. Min. Bend Radius/Minor Axis: 3.750 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMP

-20°C To +150°C

CMP

Yes

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Yes
Yes
Yes
04/01/2005
Yes
Yes
Yes
Yes
NFPA 262
FT6
Yes

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 100

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft) 23.3

Nominal Velocity of Propagation:

Nominal Delay:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

1.1 Amps per conductor @ 25°C

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
88109 0081000	1,000 FT	74.000 LB	GRAY	С	9#24 PR FS SOLEF
88109 008500	500 FT	36.500 LB	GRAY	С	9#24 PR FS SOLEF

Notes: C = CRATE REEL PUT-UP.

Revision Date: 09-20-2012 Revision Number: 2

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