# **Detailed Specifications & Technical Data**

## METRIC MEASUREMENT VERSION





88107 Multi-Conductor - Low Cap. Computer Cable for EIA RS-232/422/485 Applications

For more Information please call

1-800-Belden1



# **General Description:**

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:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
1	7	24	7x32	TC - Tinned Copper

Total Number of Conductors:

15

### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (mm)
FFEP - Foam Fluorinated Ethylene Propylene	0.381

## **Outer Shield**

## **Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

#### **Outer Shield Drain Wire AWG:**

AWG	Stranding	<b>Drain Wire Conductor Material</b>
24	7x32	TC - Tinned Copper

## **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVDF - Fluorocopolymer	0.356

## **Overall Cable**

Overall Nominal Diameter: 7.747 mm

#### Pair

#### **Pair Color Code Chart:**

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White
3	White/Green & Green/White
4	White/Brown & Brown/White
5	White/Gray & Gray/White
6	Red/Blue & Blue/Red
7	Red/Orange & Orange/Red
Single Conductor	White

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +150°C
Bulk Cable Weight:	81.851 Kg/Km
Max. Recommended Pulling Tension:	364.752 N

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Min. Bend Radius/Minor Axis: 82.550 mm

#### **Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs** NEC/(UL) Specification: **CMP** CEC/C(UL) Specification: CMP EU Directive 2011/65/EU (ROHS II): Yes EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes

#### Flame Test

UL Flame Test:	NFPA 262		
CSA Flame Test:	FT6		

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance	(Ohm)
100	

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:

Capacitance	(pF/m)
42.489	

Nom. Capacitance Cond. to Other Conductor & Shield:



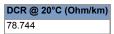
**Nominal Velocity of Propagation:** 



**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 45.934

Max. Operating Voltage - UL:

Voltage 300 V RMS

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#### Max. Recommended Current:

**Current** 1.54 Amps per conductor @ 25°C

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
88107 0081000	1,000 FT	59.000 LB	GRAY	С	7 PR #24 + 1#24 FS SOLEF
88107 008500	500 FT	31.000 LB	GRAY	С	7 PR #24 + 1#24 FS SOLEF

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 09-20-2012

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