# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 8164 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital



For more Information please call

1-800-Belden1



#### **General Description:**

Max. Recommended Pulling Tension:

Min. Bend Radius/Minor Axis:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil + TC braid shield (65% coverage), drain wire, PVC jacket.

#### **Physical Characteristics (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material TC - Tinned Copper 24 7x32 **Total Number of Conductors:** 8 Insulation Insulation Material: **Insulation Trade Name Insulation Material** Wall Thickness (in.) Datalene® FPE - Foam Polyethylene | 0.019 **Inner Shield** Inner Shield Material: Inner Shield Trade Name Type Inner Shield Material Coverage (%) Beldfoil® (Z-Fold®) Tape | Aluminum Foil-Polyester Tape | 100 Inner Shield Drain Wire AWG: 24 7x32 Inner Shield Drain Wire Stranding: Inner Shield Drain Wire Conductor Material: TC - Tinned Copper **Outer Shield** Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shield Material Coverage (%) Tape | Aluminum Foil-Polyester Tape | 100 Braid TC - Tinned Copper 65 Outer Jacket Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (in.) PVC - Polyvinyl Chloride 0.048 **Overall Cable Overall Nominal Diameter:** 0.388 in. Pair Pair Color Code Chart: Number Color Black & Red Black & White Black & Green Black & Blue **Mechanical Characteristics (Overall) Operating Temperature Range:** -40°C To +60°C 60°C **UL Temperature Rating: Bulk Cable Weight:** 72 lbs/1000 ft.

111 lbs.

4 in

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NEC/(UL) Specification:	CM				
NEO/(OL) Opecification.	OW				
CEC/C(UL) Specification:	CM				
AWM Specification:	UL Style 2493 (300 V 60°C)	UL Style 2493 (300 V 60°C)			
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):	01/01/2004				
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				
num/Non-Plenum					
Plenum (Y/N):	No				

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

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
12.5

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
22

Nominal Velocity of Propagation:

**VP (%)** 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 24.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 3.2

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:

18 Ohm/1000 ft

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
2.5 Amps per conductor @ 25°C

### Notes (Overall)

Notes: Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

# Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8164 060100	100 FT	8.200 LB	CHROME		4 FS PR #24 FHDPE SH PVC
8164 0601000	1,000 FT	77.000 LB	CHROME	С	4 FS PR #24 FHDPE SH PVC
8164 060500	500 FT	39.500 LB	CHROME	С	4 FS PR #24 FHDPE SH PVC

### Notes:

C = CRATE REEL PUT-UP.

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Revision Number: 2 Revision Date: 08-16-2012

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