## **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 8138FO Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/485



For more Information please call

1-800-Belden1



### **General Description:**

28 AWG stranded (7x36) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil shield (100% coverage), 28 AWG stranded TC drain wire, PVC jacket.

#### **Physical Characteristics (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material TC - Tinned Copper 28 7x36 **Total Number of Conductors:** 16 Insulation Insulation Material: Insulation Trade Name Insulation Material Wall Thickness (in.) Datalene® FPE - Foam Polyethylene 0.015 **Outer Shield** Outer Shield Material: Outer Shield Trade Name Type Outer Shield Material Coverage (%) Beldfoil® (Z-Fold®) Tape | Aluminum Foil-Polyester Tape | 100 Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material 28 7x36 TC - Tinned Copper **Outer Jacket Outer Jacket Material:** Outer Jacket Material Nom. Wall Thickness (in.) PVC - Polyvinyl Chloride 0.040 **Overall Cable Overall Nominal Diameter:** 0.310 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

# Mechanical Characteristics (Overall)

Red/Orange & Orange/Red Red/Green & Green/Red

Operating Temperature Range:	-30°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	37 lbs/1000 ft.
Min. Bend Radius/Minor Axis:	3.250 in.

## Applicable Specifications and Agency Compliance (Overall)

NEC/(UL) Specification:	CL2	
AWM Specification:	UL Style 2919 (30 V 80°C)	
EU Directive 2011/65/EU (ROHS II):	Yes	
EU CE Mark:	Yes	

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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		
Flame Test			
UL Flame Test:	UL1685 UL Loading		
Plenum/Non-Plenum			
Plenum (Y/N):	No		

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

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

**VP** (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 65

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

Voltage Description 30 V RMS UL AWM Style 2919 150 V RMS CL2

Max. Recommended Current:

Current .7 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
8138FO 0601000	1,000 FT	42.000 LB	CHROME	С	8 PR #28 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 11-13-2012

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by di

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