Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



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



For more Information please call

1-800-Belden1



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
8	28	7x36	TC - Tinned Copper

Total Number of Conductors:

16

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material
Datalene®	FPE - Foam Polyethylene

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

		Drain Wire Conductor Material		
28	7x36	TC - Tinned Copper		

Outer Jacket

Outer Jacket Material:

Outer Jacket Material PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 7.874 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
8	Red/Green & Green/Red

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)		
22.352	44.622		

Mechanical Characteristics (Overall)

Operating Temperature Range:

-30°C To +80°C

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Non-UL Temperature Rating:	80°C (UL AWM Style 2919)			
Bulk Cable Weight:	86.316 Kg/Km			
Min. Bend Radius/Minor Axis:	82.550 mm			
plicable Specifications and Agency Compliance (Overall)				

Applicable Specifications and Agency Compliance (Overall)

App

olicable Standards & Environmental Programs				
NEC/(UL) Specification:	CL2			
AWM Specification:	UL Style 2919 (30 V 80°C)			
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			
me Test				
UL Flame Test:	UL1685 UL Loading			
enum/Non-Plenum				

Flar

Plei

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance	(Ohm)
120	

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)	
36.091	

Nom. Capacitance Cond. to Other Conductor & Shield:



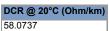
Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
213.265

Nominal Outer Shield DC Resistance:



Max. Operating Voltage - UL:

30 V RMS (UL AWM Style 2919); 150 V RMS

Max. Recommended Current:

.7 Amps per conductor @ 25°C

Notes (Overall)

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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	305 MT	19.051 KG	CHROME	С	8 PR #28 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-16-2008

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