Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION





8142FO 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:

#	Conductors	# Pairs	AWG	Stranding	Conductor Material
1		12	28	7x36	TC - Tinned Copper

Total Number of Conductors: 25

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.381

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:

AWG	Stranding	Drain Wire Conductor Material
28	7x36	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

Overall Cable

Overall Nominal Diameter: 9.779 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
9	Red/Brown & Brown/Red
10	Red/Gray & Gray/Red
11	Black/Blue & Blue/Black
12	Black/Orange & Orange/Black
Single Conductor	Gray

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Me	Mechanical Characteristics (Overall)					
	Operating Temperature Range:	-30°C To +80°C				
	Non-UL Temperature Rating:	80°C (UL AWM Style 2919)				
	Bulk Cable Weight:	69.945 Kg/Km				
	Min. Bend Radius/Minor Axis:	101.600 mm				
Ap	Applicable Specifications and Agency Compliance (Overall)					
Ap	Applicable Standards & Environmental Programs					
	NEC/(UL) Specification:	CL2				

NEC/(OL) Specification.	GLZ
AWM Specification:	UL Style 2919 (30 V 80°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
ame Test	

Fla

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

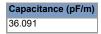
Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



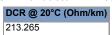
Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 58.0737

Max. Operating Voltage - UL:

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

Max. Recommended Current:

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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
8142FO 0601000	1,000 FT	54.000 LB	CHROME	С	12 PR + 1 #28 FHDPE SH PVC
8142FO 060500	500 FT	27.500 LB	CHROME	С	12 PR + 1 #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 2014/35/EU).

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