

Product: <u>8142FO</u> ⊠ RS232/485 Low Cap, #28-12.5pr, FPO, O/A Foil, PVC Jkt, CL2, 120Ω

Product Description

Computer EIA RS-232/485 Cable, 28 AWG stranded (7x36) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 28 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	rs-232 extended distance applications; rs-423 applications; computer communications; low voltage analog signals (4-20ma, 0-10v,); low voltage digital control (24v,); line level audio; panel wiring
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
28	7x36	TC - Tinned Copper		12
			1	
Condu	ctor Count:	:	25	

Insulation

Material	Material Trade Name	Nominal Wall Thickness
PE - Polyethylene (Foam)	Datalene®	0.015 in

Color 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

Outer Shield Material

Ту	e Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Тар	e Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	100%	TC - Tinned Copper	28	7x36

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.385 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
65 Ohm/1000ft	17.7 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
11 pF/ft	20 pF/ft

Impedance

Nominal Characteristic Impedance 120 Ohm

Delay

Max. Delay Skew

78 ns/100m

Current

Max. Recommended Current [A]

0.7 Amps per Conductor at 25°C

Voltage

UL Description	UL Voltage Rating
UL AWM Style 2919	30 V RMS (UL AWM Style 2919)
CL2	150 V RMS (CL2)

Temperature Range

Operating Temp Range:	-30°C To +80°C	

Mechanical Characteristics

Bulk Cable Weight:	47 lbs/1000ft
Min Bend Radius/Minor Axis:	4 in

Standards

NEC/(UL) Compliance:	CL2
UL AWM Style Compliance:	2919 (30 V 80°C)

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	30 V RMS (UL AWM Style 2919)
Plenum/Non-Plenum	

Plenum (Y/N): No

Part Number

Variants

Item #	Color	UPC
8142FO 0601000	Chrome	612825195467
8142FO 060500	Chrome	612825195474

Footnote:

C - CRATE REEL PUT-UP.

Product Notes

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.
History	
Update and Revision:	Revision Number: 0.261 Revision Date: 09-30-2020

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