

**Part Number: 8135FO**



RS232/485 Low Cap, #28-5pr, 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

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
28	7x36	TC - Tinned Copper	5

Conductor Count:	10
Conductor Size:	28 AWG

#### Insulation

Material	Material Trade Name	Nominal Wall Thickness
FPE - Foamed Polyethylene	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

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	28	7x36 mm

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.28 in

### Construction and Dimensions

#### Stranding

Lay Length	Twists
0.83 in	14.4 twist/ft

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
65 Ohm/1000ft	20 Ohm/1000ft

#### Capacitance

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

Shielding:	Foil(s) or Copper Tape(s)
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#### Impedance

<b>Nominal Characteristic Impedance</b>
120 Ohm

#### Delay

<b>Max. Delay Skew</b>	<b>Nominal Velocity of Propagation (VP) [%]</b>
78 ns/100m	78 %

#### Current

<b>Max. Recommended Current [A]</b>
0.9 Amps per conductor @ 25°C A

#### Voltage

<b>UL Voltage Rating</b>
30V RMS (UL AWM Style 2919)
150V RMS (CL2)

#### Temperature Range

Operating Temp Range:	-30°C To +80°C
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#### Mechanical Characteristics

Bulk Cable Weight:	43 lbs/1000ft
Min Bend Radius/Minor Axis:	3 in

#### Standards

NEC/(UL) Specification:	CL2
UL AWM Style:	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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Part Number

#### Variants

Item #	Color	Footnote
8135FO 0601000	CHROME	C
8135FO 060500	CHROME	C

Footnote:	C - CRATE REEL PUT-UP.
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