



**Product:** [8155](#)

RS232/485 Low Cap, #28-25pr, FPO, O/A Foil+Braid, PVC Jkt, CL2, 120Ω

**Product Description**

Computer EIA RS-232/485 Cable, 28 AWG stranded (7x36) tinned copper conductors, Datalene® insulation, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% 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	25

Conductor Count:	50
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**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
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
13	Black/Green & Green/Black
14	Black/Brown & Brown/Black
15	Black/Gray & Gray/Black
16	Yellow/Blue & Blue/Yellow
17	Yellow/Orange & Orange/Yellow
18	Yellow/Green & Green/Yellow
19	Yellow/Brown & Brown/Yellow
20	Yellow/Gray & Gray/Yellow
21	Purple/Blue & Blue/Purple
22	Purple/Orange & Orange/Purple
23	Purple/Green & Green/Purple
24	Purple/Brown & Brown/Purple
25	Purple/Gray & Gray/Purple

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	28	7x36 mm
Braid	2	TC - Tinned Copper		65 %			

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.565 in	0.044 in

## Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
65 Ohm/1000ft	2.3 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	Nominal Velocity of Propagation (VP) [%]
78 ns/100m	78 %

#### Current

Max. Recommended Current [A]
0.5 Amps per conductor @ 25°C A

#### Voltage

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

## Temperature Range

UL Temp Rating:	80°C (UL AWM Style 2919)
Operating Temp Range:	-30°C To +80°C

## Mechanical Characteristics

Bulk Cable Weight:	111 lbs/1000ft
Min Bend Radius/Minor Axis:	5.75 in

## Standards

NEC/(UL) Specification:	CL2
UL AWM Style:	2919 (30 V 80°C)
CPR Euroclass:	Eca

## 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, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
ISO/IEC Flammability:	IEC 60332-1-2

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

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

### Variants

Item #	Color	UPC	Length	Footnote
8155 060100	Chrome	612825195511	100 ft	C
8155 0601000	Chrome	612825195528	1,000 ft	C
8155 060500	Chrome	612825195535	500 ft	C

Footnote:	C - CRATE REEL PUT-UP.
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## 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.
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## History

Update and Revision:	Revision Number: 0.245 Revision Date: 02-01-2020
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