

## 8118 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information  
please call

1-800-Belden1

**Description:**

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 24 AWG stranded TC drain wire, PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
18	24	7x32	TC - Tinned Copper

**Insulation****Insulation Material:**

Insulation Trade Name	Insulation Material
Datalene®	FPE - Foam Polyethylene

**Outer Shield****Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100
2		Braid	TC - Tinned Copper	65

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

**Overall Nominal Diameter:** 0.537 in.

**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
13	Black/Green & Green/Black
14	Black/Brown & Brown/Black
15	Black/Gray & Gray/Black
16	Yellow/Blue & Blue/Yellow

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17	Yellow/Orange & Orange/Yellow
18	Yellow/Green & Green/Yellow

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	141 lbs/1000 ft.
Max. Recommended Pulling Tension:	203.500 lbs.
Min. Bend Radius (Install)/Minor Axis:	5.500 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
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

**Flame Test**

UL Flame Test:	UL1685 UL Loading
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
100

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)
12.5

**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/ft)
22

**Nominal Velocity of Propagation:**

VP (%)
78

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
24

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
2.1

**Max. Operating Voltage - UL:**

Voltage
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## 8118 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

30 V RMS (UL AWM Style 2919)
300 V RMS

**Max. Recommended Current:**

<b>Current</b>
.88 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.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8118 060100	100 FT	13.300 LB	CHROME	C	18 PR #24 FHDPE SH PVC
8118 0601000	1,000 FT	141.000 LB	CHROME	C	18 PR #24 FHDPE SH PVC
8118 060500	500 FT	70.500 LB	CHROME	C	18 PR #24 FHDPE SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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