

## 8110 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information  
please call

1-800-Belden1



### General 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
10	24	7x32	TC - Tinned Copper

Total Number of Conductors: 20

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Datalene®	FPE - Foam Polyethylene	0.013

#### 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	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.035

#### Overall Cable

Overall Nominal Diameter: 0.427 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

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

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UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	82 lbs/1000 ft.
Max. Recommended Pulling Tension:	115.500 lbs.
Min. Bend Radius/Minor Axis:	4.500 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 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

#### 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)

2.4

#### Max. Operating Voltage - UL:

Voltage	Description
30 V RMS	UL AWM Style 2919
300 V RMS	CM

#### Max. Recommended Current:

Current

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1.1 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
8110 060100	100 FT	9.900 LB	CHROME	C	10 PR #24 FHDPE SH PVC
8110 0601000	1,000 FT	91.000 LB	CHROME	C	10 PR #24 FHDPE SH PVC
8110 0602000	2,000 FT	178.000 LB	CHROME		10 PR #24 FHDPE SH PVC
8110 0603000	3,000 FT	288.000 LB	CHROME		10 PR #24 FHDPE SH PVC
8110 060500	500 FT	46.000 LB	CHROME	C	10 PR #24 FHDPE SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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