

8107 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 Application



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
7	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: 0.341 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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	62.500 lbs/1000 ft.
Max. Recommended Pulling Tension:	82.500 lbs.

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Min. Bend Radius (Install)/Minor Axis: 3.500 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

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	88107

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)
 3.5

Max. Operating Voltage - UL:

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

Max. Recommended Current:

 Current
 1.5 Amps per conductor @ 25°C

Notes (Overall)

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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
8107 060100	100 FT	6.800 LB	CHROME		7 PR #24 FHDPE SH PVC
8107 0601000	1,000 FT	63.000 LB	CHROME	C	7 PR #24 FHDPE SH PVC
8107 060500	500 FT	33.000 LB	CHROME	C	7 PR #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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