Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION





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

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.

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Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Trade Name		Insulation Material	Wall Thickness (mm)
	Datalene®	FPE - Foam Polyethylene	0.330

Outer Shield

Outer Shield Material:

Layer # Outer Shield Trade Name		Туре	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 (mm)
PVC - Polyvinyl Chloride	0.889

Overall Cable

Overall Nominal Diameter: 8.661 mm

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:	87.804 Kg/Km	

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Max. Recommended Pulling Tension:	366.977 N
Min. Bend Radius/Minor Axis:	88.900 mm

Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC(IIII) Specification: CM

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

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

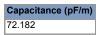
Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



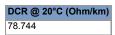
Nom. Capacitance Cond. to Other Conductor & Shield:



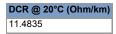
Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Max. Operating Voltage - UL:

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

Max. Recommended Current:

Current
1.5 Amps per conductor @ 25°C

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

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-31-2012

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