# **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	<b>Conductor Material</b>
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 Type		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:**

	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/(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
ame Test	

## **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:



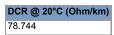
Nom. Capacitance Cond. to Other Conductor & Shield:



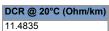
Nominal Velocity of Propagation:



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	CM

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	30 MT	3.084 KG	CHROME		7 PR #24 FHDPE SH PVC
8107 0601000	305 MT	28.576 KG	CHROME	С	7 PR #24 FHDPE SH PVC
8107 060500	152 MT	14.969 KG	CHROME	С	7 PR #24 FHDPE SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

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