Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION





9933 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423

For more Information please call

1-800-Belden1



General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
8	24	7x32	TC - Tinned Copper

Total Number of Conductors:

8

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.381

Outer Shield

Outer Shield Material:

Outer Shield Trade Name Type		Outer Shield Material	Coverage (%)	
Beldfoil® Tap		Aluminum Foil-Polyester Tape	100	
Braid		TC - Tinned Copper	65	

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	Stranded	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow

Overall Nominal Diameter: 7.112 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C	
UL Temperature Rating:	80°C (UL AWM Style 2919)	
Bulk Cable Weight:	62.504 Kg/Km	

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Min. Bend Radius/Minor Axis: 76.200 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

ı	NEC/(UL) Specification:	CM
(CEC/C(UL) Specification:	CM
7	AWM Specification:	UL Style 2919 (30 V 80°C)
i	EU Directive 2011/65/EU (ROHS II):	Yes
E	EU CE Mark:	Yes
E	EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS): Yes		Yes
E	EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
E	EU Directive 2002/96/EC (WEEE):	Yes
E	EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable): Yes		Yes
ı	MII Order #39 (China RoHS):	Yes
Flan	ne Test	
ι	UL Flame Test:	UL1685 UL Loading

No

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 39.372

Plenum/Non-Plenum Plenum (Y/N):

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 72.182

Nominal Velocity of Propagation:

VP (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 14.4364

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

Notes (Overall)

Notes: Datalene® insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Put Ups and Colors:

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Item #	Putup	Ship Weight	Color	Notes	Item Desc
9933 060Z500	500 FT	23.000 LB	CHROME		8 #24 FHDPE SH PVC
9933 060100	100 FT	4.900 LB	CHROME		8 #24 FHDPE SH PVC
9933 0601000	1,000 FT	46.000 LB	CHROME	С	8 #24 FHDPE SH PVC
9933 060500	500 FT	22.500 LB	CHROME	С	8 #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-17-2012

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