Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8163 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

For more Information please call

1-800-Belden1



General Description:

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

Physical Characteristics (Overall) Conductor AWG: # Pairs AWG Stranding Conductor Material TC - Tinned Copper 24 7x32 **Total Number of Conductors:** 6 Insulation Insulation Material: **Insulation Trade Name Insulation Material** Wall Thickness (in.) Datalene® FPE - Foam Polyethylene | 0.019 Inner Shield Inner Shield Material: Inner Shield Trade Name Type Inner Shield Material Coverage (%) Beldfoil® (Z-Fold®) Tape | Aluminum Foil-Polyester Tape | 100 Inner Shield Drain Wire AWG: 24 7x32 Inner Shield Drain Wire Stranding: Inner Shield Drain Wire Conductor Material: TC - Tinned Copper **Outer Shield** Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shield Material Coverage (%) Tape | Aluminum Foil-Polyester Tape | 100 Braid TC - Tinned Copper 65 Outer Jacket Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (in.) PVC - Polyvinyl Chloride 0.048 **Overall Cable Overall Nominal Diameter:** 0.359 in. Pair Pair Color Code Chart: Number Color Black & Red Black & White Black & Green **Mechanical Characteristics (Overall) Operating Temperature Range:** -40°C To +60°C

60°C (UL AWM Style 2493)

62 lbs/1000 ft

84 lbs.

3 750 in

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

Non-UL Temperature Rating:
Bulk Cable Weight:

Min. Bend Radius/Minor Axis:

Max. Recommended Pulling Tension:

NEC/(UL) Specification: CM

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CEC/C(UL) Specification:	СМ	
AWM Specification:	UL Style 2493 (300 V 60°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	
lame Test		
UL Flame Test:	UL1581 Vertical Tray	
Plenum/Non-Plenum		
Plenum (Y/N):	No	

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:

VP (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 24.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 4.4

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 18 Ohm/1000 ft

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
1.6 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
8163 060100	100 FT	7.000 LB	CHROME		3 FS PR #24 FHDPE SH PVC
8163 0601000	1,000 FT	66.000 LB	CHROME	С	3 FS PR #24 FHDPE SH PVC
8163 060500	500 FT	34.000 LB	CHROME	С	3 FS PR #24 FHDPE SH PVC
8163 0605000	5,000 FT	730.000 LB	CHROME	С	3 FS PR #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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