Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



8164 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:** 8 Insulation Insulation Material: Insulation Trade Name Insulation Material Wall Thickness (mm) FPE - Foam Polyethylene 0.483 Datalene® **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 (mm) PVC - Polyvinyl Chloride | 1.219 **Overall Cable Overall Nominal Diameter:** 9.855 mm Pair Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue

echanical Characteristics (Overall)			
Operating Temperature Range: -40°C To +60°C			
UL Temperature Rating:	60°C		
Bulk Cable Weight:	107.150 Kg/Km		
Max. Recommended Pulling Tension:	493.750 N		
Min. Bend Radius/Minor Axis:	101.600 mm		

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Applicable Specifications and Agency Compliance	(Overall)			
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	CM			
CEC/C(UL) Specification:	CM			
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			
Plenum/Non-Plenum				
Plenum (Y/N):	No			

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 41.0125

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) 10.4992

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 59.058 Ohm/km

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
2.5 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
8164 060100	100 FT	8.200 LB	CHROME		4 FS PR #24 FHDPE SH PVC
8164 0601000	1,000 FT	77.000 LB	CHROME	С	4 FS PR #24 FHDPE SH PVC
8164 060500	500 FT	39.500 LB	CHROME	С	4 FS PR #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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Revision Number: 2 Revision Date: 08-16-2012

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