Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8168 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 24 7x32 TC - Tinned Copper **Total Number of Conductors:** 16 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: AWG 24 Inner Shield Drain Wire Stranding: Stranded Inner Shield Drain Wire Conductor Material: TC - Tinned Copper **Outer Shield** Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shield Material Coverage (%) Beldfoil® 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: 0.479 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C	
UL Temperature Rating:	60°C (UL AWM Style 2493)	
Bulk Cable Weight:	108 lbs/1000 ft.	
Max. Recommended Pulling Tension:	184 lbs.	

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Min. Bend Radius/Minor Axis:	5 in.						
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						
Flame 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:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

VP (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:

18 Ohm/1000 ft

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

1.1 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8168 060100	100 FT	12.500 LB	CHROME	С	8 FS PR #24 FHDPE SH PVC
8168 0601000	1,000 FT	115.000 LB	CHROME	С	8 FS PR #24 FHDPE SH PVC
8168 060500	500 FT	61.500 LB	CHROME	С	8 FS PR #24 FHDPE SH PVC

Notes: C = CRATE REEL PUT-UP.

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