Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



8185 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:** 50 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 (%) 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 (%) 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 | 1.651 **Overall Cable**

20.879 mm

Overall Nominal Diameter:

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				
9	Red & Green				
10	Red & Blue				
11	Red & Yellow				
12	Red & Brown				
13	Red & Orange				
14	Green & White				
15	Green & Blue				

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16	Green & Yellow
17	Green & Brown
18	Green & Orange
19	White & Blue
20	White & Yellow
21	White & Brown
22	White & Orange
23	Blue & Yellow
24	Blue & Brown
25	Blue & Orange

Mechanical Characteristics (Overall)				
Operating Temperature Range:	-40°C To +60°C			
Non-UL Temperature Rating:	60°C (UL AWM Style 2493)			
Bulk Cable Weight:	433.066 Kg/Km			
Max. Recommended Pulling Tension:	2166.273 N			
Min. Bend Radius/Minor Axis:	209.550 mm			
Applicable Specifications and Agency Compliance	e (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				

No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Plenum (Y/N):

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) 7.8744

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

Max. Operating Voltage - UL:

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Voltage 300 V RMS

Max. Recommended Current:

Current 1 Amp per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8185 060100	100 FT	32.300 LB	CHROME	С	25 FS PR #24 FHDPE SH PVC
8185 0601000	1,000 FT	356.000 LB	CHROME	С	25 FS PR #24 FHDPE SH PVC
8185 060500	500 FT	160.500 LB	CHROME	С	25 FS PR #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 10-01-2012

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