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.

50

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs AWG		Stranding	Conductor Material			
25	24	7x32	TC - Tinned Copper			

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.483

Inner Shield

Inner Shield Material:

Inner Shield Trade Name Typ		Inner Shield Material	Coverage (%)
Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

La	Layer # Outer Shield Trade Name		Type	Outer Shield Material	Coverage (%)	
1		Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100	
2			Braid	TC - Tinned Copper	65	

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.651

Overall Cable

Overall Nominal Diameter: 20.879 mm

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

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

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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 (Overall)

Applicable Standards & Environmental Programs

ame Test	
MII Order #39 (China RoHS):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU CE Mark:	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
AWM Specification:	UL Style 2493 (300 V 60°C)
CEC/C(UL) Specification:	CM
NEC/(UL) Specification:	CM

Fla

UL Flame Test: UL1581 Vertical Tray

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

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41.0125

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 72.182

Nominal Velocity of Propagation:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 7.8744

Ind. Pair Nominal Shield DC Resistance @ 20

59.058 Ohm/km

Deg. C:

Max. Operating Voltage - UL:

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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