# **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:**

Black & Brown

Black & Orange

6 7

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 Characteris	tics (Ov	erall)	•	0,	
Conductor		c. any			
AWG:					
<b># Pairs AWG Strandin</b> 25 24 7x32	-				
25 24 7x32	TC - Tinn	ed Copper			
Total Number of Con	Total Number of Conductors:		50		
Insulation Insulation Material:					
Insulation Trade Name	Insulation Trade Name Insulation Material		Wall Thickness (mm)		
Datalene®	Datalene® FPE - Foam Polyethylene		0.483		
Inner Shield Inner Shield Material:					
Inner Shield Trade Nam				Coverage	e (%)
Beldfoil®	Tape A	luminum Foil-Po	lyester Tape	100	
<b>AWG</b> 24			_		
Inner Shield Drain W	ire Stranc	ling:	Stra	anded	
Inner Shield Drain W	ire Condu	ctor Material	: тс	- Tinned (	Copper
Outer Shield					
Outer Shield Material: Layer # Outer Shield T	rado Namo	Type Outer S	hield Materi	al	Coverage (%)
1 Beldfoil®		Tape Aluminu			100
2		Braid TC - Tin	ned Copper		65
Outer Jacket					
Outer Jacket Material:					
Outer Jacket Material		ll Thickness (m	ım)		
PVC - Polyvinyl Chloride	1.651				
Overall Cable					
Overall Nominal Diar	neter:		20.8	879 mm	
Pair					
Pair Color Code Chart	:				
Number Color					
1 Black & Red					
2 Black & White 3 Black & Green	_				
3 Black & Green 4 Black & Blue	_				
5 Black & Yellow	-				
	_				

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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

### **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 (Overall)

**Applicable Standards & Environmental Programs** NEC/(UL) Specification: СМ 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 **Flame Test** UL Flame Test: UL1581 Vertical Tray Plenum/Non-Plenum Plenum (Y/N): No **Electrical Characteristics (Overall)** 

#### Nom. Characteristic Impedance:

#### Impedance (Ohm)

100

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:

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 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.

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