Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8165 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital



For more Information please call

1-800-Belden1



General Description:

Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis:

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	
5 24 7x32 TC - Tinned Copper	
Total Number of Conductory	40
Total Number of Conductors:	10
Insulation Insulation Material:	
Insulation Trade Name Insulation Material Wall Thickness (i	1
Datalene® FPE - Foam Polyethylene 0.019	
Inner Shield Inner Shield Material:	
	arage (%)
Beldfoil® (Z-Fold®) Tape Aluminum Foil-Polyester Tape 100	
Inner Shield Drain Wire AWG:	
AWG	
24	
Inner Shield Drain Wire Stranding:	7x32
Inner Shield Drain Wire Conductor Material:	TC - Tinned Copper
Outer Shield	
Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shield Material	
Layer # Outer Shield Trade Name Type Outer Shield Material 1 Beldfoil® Tape Aluminum Foil-Polyester Ta	Coverage (%)
2 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:	0.413 in.
Pair	
Pair Color Code Chart:	
Number Color	
1 Black & Red	
2 Black & White	
3 Black & Green 4 Black & Blue	
4 Black & Blue 5 Black & Yellow	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-40°C To +60°C
Non-UL Temperature Rating:	60°C (UL AWM Style 2493)
Bulk Cable Weight:	81 lbs/1000 ft.
Max. Recommended Pulling Tension:	127 lbs.

4.250 in.

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Applicable Specifications and Agency Compliance (Applicable Standards & Environmental Programs	Jverall)
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
100 Nom. Capacitance Conductor to Conductor: Capacitance (pF/ft) 12.5 Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/ft) 22 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 24.0 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 3.4	
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:	18 Ohm/1000 ft
Max. Operating Voltage - UL: Voltage 300 V RMS Max. Recommended Current: Current	
1.6 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
8165 060100	100 FT	9.100 LB	CHROME		5 FS PR #24 FHDPE SH PVC
8165 0601000	1,000 FT	90.000 LB	CHROME	С	5 FS PR #24 FHDPE SH PVC
8165 060500	500 FT	45.500 LB	CHROME	С	5 FS PR #24 FHDPE SH PVC

Notes: C = CRATE REEL PUT-UP.



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