Detailed Specifications & Technical Data



METRIC 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:

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	stics (Ove	erall)		
Conducto			,		
AWG:					
	s AWG Strandin	-			
5	24 7x32	TC - Tinne	d Copper		
Total	Number of Co	nductors:		10	
nsulatio	n				
Insulati	on Material:				
	ation Trade Name			Wall Thickness (mm)	
Datale	ene®	FPE - Foam	Polyethylene	0.483	
nner Shi	eld				
	hield Material:				
Inner	Shield Trade Na	me Type Inr	er Shield Mate	rial Coverag	e (%)
Beldfo	il® (Z-Fold®)	Tape Alu	minum Foil-Pol	yester Tape 100	
Inner Sl	hield Drain Wir	e AWG:			
AWG					
24					
Inner	Shield Drain W	/ire Strandi	na.	7x32	
			-		0
	Shield Drain W	nre Conduc	tor material:	TC - Tinned	Copper
Outer Sh					
	hield Material:			iald Matarial	Coverage (0/)
Layer	# Outer Shield			neld Material	Coverage (%) 100
2			Braid TC - Tinr	, ,	65
Duter Ja					
	acket Material: Jacket Material		Thickness (mr	n)	
	Polyvinyl Chlorid		mickness (mi		
		- 1.2 13			
Overall C	able				
Overa	II Nominal Dia	meter:		10.490 mm	
Pair					
Pair Co	lor Code Chart	:			
Numb	er Color				
1	Black & Red				
2	Black & White	_			
3	Black & Green	l			
4	Black & Blue				

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lechanical Characteristics (Overall)								
Operating Temperature Range:	-40°C To +60°C							
Non-UL Temperature Rating:	60°C (UL AWM Style 2493)							
Bulk Cable Weight:	120.544 Kg/Km							
Max. Recommended Pulling Tension:	564.921 N							
Min. Bend Radius/Minor Axis:	107.950 mm							
pplicable Specifications and Agency Co	ompliance (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							
lectrical Characteristics (Overall)								
Nom. Characteristic Impedance:								
Impedance (Ohm) 100								
Nom. Capacitance Conductor to Conductor:								
Capacitance (pF/m) 41.0125								
Nom. Capacitance Cond. to Other Conductor & Sh Capacitance (pF/m) 72.182	ield:							
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)

11.1554

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



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Max. Operating Voltage - UL:

METRIC MEASUREMENT VERSION

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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