Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8164 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.

	(0 11	、				
Physical Characteristic	cs (Overall)				
Conductor AWG:						
# Pairs AWG Stranding (Conductor Mat	arial				
	TC - Tinned Cop					
4 24 77.52		pper				
Total Number of Condu	uctors:	8				
Insulation						
Insulation Material:						
Insulation Trade Name In	sulation Materi	ial Wall Thickness (mm)				
Datalene® FI	PE - Foam Polye	ethylene 0.483				
Inner Shield						
Inner Shield Material:						
Inner Shield Trade Name	Type Inner Sh	ield Material Coverag	je (%)			
Beldfoil® (Z-Fold®)	Tape Aluminur	m Foil-Polyester Tape 100				
Inner Shield Drain Wire A	AWG:	· · ·				
AWG						
24						
Inner Shield Drain Wire	Stranding:	7x32				
Inner Shield Drain Wire	Conductor N	Material: TC - Tinned	Copper			
Outer Shield					 	
Outer Shield Material:						
Layer # Outer Shield Trac	de Name Type	Outer Shield Material	Coverage (%)	%)		
1 Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100	7		
2	Braid	TC - Tinned Copper	65	-		
Outer Jacket			·			
Outer Jacket Material:						
	Nom. Wall Thick	kness (mm)				
PVC - Polyvinyl Chloride 1						
L						
Overall Cable						
Overall Nominal Diame	ter:	9.855 mm				
Pair					 	
Pair Color Code Chart:						
Number Color						
1 Black & Red						
2 Black & White						
3 Black & Green						
4 Black & Blue						
lechanical Characteri	stics (Over	rall)				

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Operating Temperature Range:	-40°C To +60°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	107.150 Kg/Km
Max. Recommended Pulling Tension:	493.750 N
Min. Bend Radius/Minor Axis:	101.600 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

CEC/C(UL) Specification:CMAWM Specification:UL Style 2493 (300 V 60°C)EU Directive 2011/65/EU (ROHS II):YesEU CE Mark:YesEU Directive 2000/53/EC (ELV):Yes
EU Directive 2011/65/EU (ROHS II): Yes EU CE Mark: 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
Plenum/Non-Plenum
Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

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)

10.4992

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

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2.5 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
8164 060100	100 FT	8.200 LB	CHROME		4 FS PR #24 FHDPE SH PVC
8164 0601000	1,000 FT	77.000 LB	CHROME	С	4 FS PR #24 FHDPE SH PVC
8164 060500	500 FT	39.500 LB	CHROME	С	4 FS PR #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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