Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8125 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 24 AWG stranded TC drain wire, PVC jacket.

vsical (Characteristics (Ove	rall)			
nductor		. any			
WG:					
# Pairs	s AWG Stranding Conduc	tor Material			
25	24 7x32 TC - Tin	ned Copper			
				50	
	lumber of Conductors:			50	
sulation					
	n Material:				
	tion Trade Name Insulation		Wall Thickness	s (mm)	
Datale	new FPE - Foa	m Polyethyle	ine 0.381		
iter Shie	eld				
	ield Material:				
-	# Outer Shield Trade Name				Coverage (%)
1	Beldfoil®			r Tape w/Shorting Fold	
2		Braid TC ·	Tinned Copper		65
Outer Shi	ield Drain Wire AWG:				
AWG	Stranding Drain Wire Conc	ductor Mater	ial		
24	7x32 TC - Tinned Cop	per			
iter Jacl					
erall Ca Overall	ible I Nominal Diameter:			16.053 mm	
r Pair Colo	r Code Chart:				
	er Color				
1	White/Blue & Blue/White				
2	White/Orange & Orange/V	White			
3	White/Green & Green/Wh				
4	White/Brown & Brown/Wh				
5	White/Gray & Gray/White				
6	Red/Blue & Blue/Red				
7	Red/Orange & Orange/Re	d			
8	Red/Green & Green/Red				
9	Red/Brown & Brown/Red				
10	Red/Gray & Gray/Red				
11	Black/Blue & Blue/Black				
12	Black/Orange & Orange/B	Black			
13	Black/Green & Green/Blac				
14	Black/Brown & Brown/Bla	ck			
15	Black/Gray & Gray/Black				
16	Yellow/Blue & Blue/Yellow	v			
17	Yellow/Orange & Orange/	Yellow			
18	Yellow/Green & Green/Ye	llow			
19	Yellow/Brown & Brown/Ye				
20	Yellow/Gray & Gray/Yellov	w			
21	Purple/Blue & Blue/Purple				
22	Purple/Orange & Orange/	Purple			
23	Purple/Green & Green/Pu	irple			

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24 Purple/Brown & Brown/Purple	
25 Purple/Gray & Gray/Purple	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	260.435 Kg/Km
Max. Recommended Pulling Tension:	1247.720 N
Min. Bend Radius/Minor Axis:	165.100 mm
Applicable Specifications and Agency Con	
Applicable Standards & Environmental Program	
NEC/(UL) Specification:	СМ
CEC/C(UL) Specification:	СМ
AWM Specification:	UL Style 2919 (30 V 80°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:	UL1685 UL Loading
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	88125
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) 6.562	
Max. Operating Voltage - UL:	
Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM	
Max. Recommended Current:	
Current 1 Amp per conductor @ 25°C	

Detailed Specifications & Technical Data



8125 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

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
8125 060100	100 FT	20.700 LB	CHROME	С	25 PR #24 FHDPE SH PVC
8125 0601000	1,000 FT	191.000 LB	CHROME	С	25 PR #24 FHDPE SH PVC
8125 060500	500 FT	95.000 LB	CHROME	С	25 PR #24 FHDPE SH PVC

Notes

C = CRATE REEL PUT-UP

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