Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8105 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.

hysical Characteristics (Overall) conductor	
AWG:	
# Pairs AWG Stranding Conductor Material 5 24 7x32 TC - Tinned Copper	
Total Number of Conductors:	10
nsulation Insulation Material:	
Insulation Trade Name Insulation Material Wall Thicknes	ss (in.)
Datalene® FPE - Foam Polyethylene 0.013	
Outer Shield Outer Shield Material:	
Layer # Outer Shield Trade Name Type Outer Shield Material	
1 Beldfoil® Tape Aluminum Foil-Polyeste	
2 Braid TC - Tinned Copper	65
Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material	
24 7x32 TC - Tinned Copper	
Outer Jacket Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (in.)	
PVC - Polyvinyl Chloride 0.035	
overall Cable	
Overall Nominal Diameter:	0.303 in.
air	
Pair Color Code Chart:	
Number Color 1 White/Blue & Blue/White	
2 White/Orange & Orange/White	
3 White/Green & Green/White	
4 White/Brown & Brown/White	
5 White/Gray & Gray/White	
echanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	43 lbs/1000 ft.
Max. Recommended Pulling Tension:	60.500 lbs.
Min. Bend Radius/Minor Axis:	3.250 in.
pplicable Specifications and Agency Compliance (Overall)
pplicable Standards & Environmental Programs	
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

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8105 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

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:	88105			
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				
Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 4.2 Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS Max. Recommended Current: Current 1.5 Amps per conductor @ 25°C				
Notes (Overall)	nt and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush			

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
8105 060100	100 FT	5.200 LB	CHROME		5 PR #24 FHDPE SH PVC
8105 0601000	1,000 FT	47.000 LB	CHROME	С	5 PR #24 FHDPE SH PVC
8105 060500	500 FT	25.000 LB	CHROME	С	5 PR #24 FHDPE SH PVC
8105 0605000	5,000 FT	240.000 LB	CHROME	CZ	5 PR #24 FHDPE SH PVC

Notes: C = CRATE REEL PUT-UP. Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.



8105 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

Revision Number: 3 Revision Date: 08-15-2012

© 2015 Belden, Inc All Rights Reserved

All hough Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, is deleden's knowledge, information, and belief at the date of its publication. The information provided to the best of Belden's howledge, information, and belief or the one that it becomes a part of. This Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product tusers are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.