Detailed Specifications & Technical Data



METRIC 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.

coverage) - To braid shield (03/6 coverage), 24 Avvo stranded To drain wire, T vo jacket.
Physical Characteristics (Overall)
Conductor
AWG:
Pairs AWG Stranding Conductor Material 5 24 7x32 TC - Tinned Copper
5 24 7x32 TC - Tinned Copper
Total Number of Conductors: 10
Insulation Insulation Material:
Insulation Trade Name Insulation Material Wall Thickness (mm)
Datalene® FPE - Foam Polyethylene 0.330
Outer Shield Outer Shield Material:
Layer # Outer Shield Trade Name Type Outer Shield Material Coverage (%)
1 Beldfoil® Tape Aluminum Foil-Polyester Tape w/Shorting Fold 100 2 Braid TC - Tinned Copper 65
Outer Shield Drain Wire AWG:
AWG StrandingDrain Wire Conductor Material247x32TC - Tinned Copper
Outer Jacket Outer Jacket Material:
Outer Jacket Material Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride 0.889
Overall Cable
Overall Nominal Diameter: 7.696 mm
Pair
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
Mechanical Characteristics (Overall)
Operating Temperature Range: -30°C To +80°C

Operating reinperature Kange.			
UL Temperature Rating:	80°C (UL AWM Style 2919)		
Bulk Cable Weight:	63.993 Kg/Km		
Max. Recommended Pulling Tension:	269.116 N		
Min. Bend Radius/Minor Axis:	82.550 mm		



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NEC/(UL) Specification:	CM
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
lame Test	
UL Flame Test:	UL1685 UL Loading
lenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	88105
om. Capacitance Conductor to Conductor: Capacitance (pF/m) 41.0125 om. Capacitance Cond. to Other Conductor & SI Capacitance (pF/m) 72.182	nield:
ominal Velocity of Propagation: VP (%) 78 om. Conductor DC Resistance:	
DCR @ 20°C (Ohm/km) 78.744	
ominal Outer Shield DC Resistance:	
DCR @ 20°C (Ohm/km) 13.7802	
-	

Notes (Overall)



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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	30 MT	2.359 KG	CHROME		5 PR #24 FHDPE SH PVC
8105 0601000	305 MT	21.319 KG	CHROME	С	5 PR #24 FHDPE SH PVC
8105 060500	152 MT	11.340 KG	CHROME	С	5 PR #24 FHDPE SH PVC
8105 0605000	1,524 MT	108.863 KG	CHROME	CZ	5 PR #24 FHDPE SH PVC

Notes:

C = CRATE REFL PUT-UP

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

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