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.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
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	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

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)

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Operating Temperature Range:	-30°C To +80°C
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

Page 1 of 3 11-08-2019

Detailed Specifications & Technical Data





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Applicable Specifications and Agency Compliance (Overall)				
Applicable Standards & Environmental Programs				
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			
Flame Test				
UL Flame Test:	UL1685 UL Loading			
Plenum/Non-Plenum				
Plenum (Y/N):	No			
Plenum Number:	88105			

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



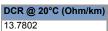
Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



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)

Page 2 of 3 11-08-2019

Detailed Specifications & Technical Data





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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	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.

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

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