Detailed Specifications & Technical Data



8102 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

8-*31*0

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 (Ove							
Conductor							
AWG:	ater Material						
# Pairs AWG Stranding Conduct 2 24 7x32 TC - Tin	nned Copper						
Total Number of Conductors: 4							
Insulation Insulation Material:							
Insulation Trade Name Insulation							
Datalene® FPE - Foa	am Polyethylene 0.330						
Outer Shield Outer Shield Material:							
Layer # Outer Shield Trade Name	ne 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 Cond 24 7x32 TC - Tinned Cop							
Outer Jacket Outer Jacket Material:							
Outer Jacket Material Nom. Wa	/all Thickness (mm)						
PVC - Polyvinyl Chloride 0.889							
Overall Cable							
Overall Nominal Diameter:	6.858 mm						
Pair Bair Calas Cada Charta							
Pair Color Code Chart: Number Color							
1 White/Blue & Blue/White							
2 White/Orange & Orange/	White						
Mechanical Characteristics (C	Quarall)						
Operating Temperature Range:	-30°C To +80°C						
UL Temperature Rating:	80°C (UL AWM Style 2919)						
Bulk Cable Weight:	50.599 Kg/Km						
Max. Recommended Pulling Tens							
Min. Bend Radius/Minor Axis:	69.850 mm						
	d Agency Compliance (Overall)						
Applicable Standards & Environm	-						
NEC/(UL) Specification:	CM						
CEC/C(UL) Specification:	CM						
AWM Specification:	UL Style 2919 (30 V 80°C)						
EU Directive 2011/65/EU (ROHS II	II): Yes						
EU CE Mark:	Yes						
EU Directive 2000/53/EC (ELV):	Yes						

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METRIC MEASUREMENT VERSION

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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:	88102
Electrical Characteristics (Overall)	
Nom. Characteristic Impedance:	
Impedance (Ohm) 100	
Nom. Inductance:	
Inductance (μΗ/m) 0.659481	
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) 15.0926	
Max. Operating Voltage - UL:	
VoltageDescription30 V RMSUL AWM Style 2919300 V RMSCM	
Max. Recommended Current:	
Current 1.8 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
8102 060100	100 FT	4.100 LB	CHROME		2 PR #24 FHDPE SH PVC
8102 0601000	1,000 FT	38.000 LB	CHROME	С	2 PR #24 FHDPE SH PVC
8102 06010000	10,000 FT	380.000 LB	CHROME	CY	2 PR #24 FHDPE SH PVC
8102 060500	500 FT	18.500 LB	CHROME	С	2 PR #24 FHDPE SH PVC
8102 0605000	5,000 FT	185.000 LB	CHROME	С	2 PR #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP. Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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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.