Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8107 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 Applicatio



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) + 10 braid shield (05% coverage); 24 Avvo stranded 10 drain wire; 1 vo jacket.						
Physical Characteristics (Overall)						
Conductor AWG:						
# Pairs AWG Stranding Conductor Mater	lal					
7 24 7x32 TC - Tinned Copp						
Total Number of Conductors:	14					
Insulation						
Insulation Material:	Mell Thisburger (b)					
Insulation Trade Name Insulation Material Datalene® FPE - Foam Polyeth						
Outer Shield						
Outer Shield Material: Layer # Outer Shield Trade Name Type (Duter Shield Material Coverage (%)					
	Juminum Foil-Polyester Tape w/Shorting Fold 100					
	C - Tinned Copper 65					
Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Ma	torial					
24 7x32 TC - Tinned Copper						
Outer Jacket Outer Jacket Material:						
Outer Jacket Material Nom. Wall Thickn						
PVC - Polyvinyl Chloride 0.035	133 (II.)					
Overall Cable						
Overall Nominal Diameter:	0.341 in.					
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						
6 Red/Blue & Blue/Red						
7 Red/Orange & Orange/Red						
·						
Mechanical Characteristics (Overall)						
Operating Temperature Range:	-30°C To +80°C					
UL Temperature Rating:	80°C (UL AWM Style 2919)					
Bulk Cable Weight:	59 lbs/1000 ft.					
Max. Recommended Pulling Tension:	82.500 lbs.					
Min. Bend Radius/Minor Axis:	3.500 in.					
Applicable Specifications and Agence						
Applicable Standards & Environmental P NEC/(UL) Specification:	rograms CM					
CEC/C(UL) Specification:	CM					
AWM Specification:	UL Style 2919 (30 V 80°C)					

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EU Directive 201165EU (ROHS II): Yes EU Directive 200298/EC (ROHS): Yes CA Prop 55 (C) for Wire & Cable): Yes U Rame Test: UL 1085 UL Loading Plenum Number: 0 Plenum Number: 0 Ruma Statistics (Overall) Non-Cospectance Definition Non-Cospectance Definition Non-Cospectance Definition Non-Cospectance Definition Non-Cospectance Definition 2					
EU Directive 2000/ESHEC (ELV): Yes EU Directive 2002/ESHEC (RoHS): Yes EU ARIS Compliance Date (mm/ddyyyy): 01/01/20/4 EU Directive 2002/ESHEC (RoHS): Yes EU Directive 2002/ESHEC (ROHS): Yes EU Directive 2002/ESHEC (ROHS): Yes EU Directive 2002/ESHEC (ROHE): Yes EU Directive 2002/ESHEC (ROHE): Yes MI Order #39 (China RoHS): Yes View 2007/ESHEC (ELV): Yes MI Order #39 (China RoHS): Yes View 2007/ESHEC (ROHE): Yes MI Order #39 (China RoHS): Yes Planum (Non-Florum Planum (Non-Florum Planum (Non-Florum Bi/07 Planum (Non-Florum Bi/07 Non-Capacitance Conductor to Conductor: Capacitance (Frift) Non-Capacitance Conductor to Conductor: Capacitance Conductor to Conductor & Shield: Capacitance Cond. to Other Conductor & Shield: Capacitance (Frift) Non-Capacitance Cond. to Other Conductor & Shield: Capacitance (Frift) Yes Shield: Capacitance (Frift) Yes Conductor DC Resistanc	EU Directive 2011/65/EU (ROHS II):	Yes			
EU Directive 200298/EC (R0H5): Yes EU Reids Compliance Date (mm/ddyyyy): 010/12004 EU Directive 200298/EC (WEEE): Yes MID Order #38 (China RoH8): Yes U. Flame Test: UL 1885 UL Loading Plenum Number: No Plenum Number: 88107 Electrical Charactoristic (S Overall) Nom. Characteristic Impedance: Impediance (Chin) Impediance Conductor to Conductor: Egacetiance Conductor to Conductor & Shield: Cipacetiance (Orff) 12:2 Statiance: Directive 2000 (Directive 2000) Statiance: Ver (%) To 24 Statiance: Directive 2000 (Dire Conductor & Shield: Statiance:	EU CE Mark:	Yes			
EU RoitS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 20029/EEC (WEEE): Yes EU Directive 20039/EEC (WEEE): Yes MII Order #38 (china Rolds): Yes Plane Test: UL 1885 UL Loading Plenum Number: 83107 Plenum Number: 83107 Nom. Characteristics (Overall) Nom. Characteristics (Overall) Nom. Characteristics (Overall) Nom. Characteristics (Overall) Nom. Characteristics (Overall) Nom. Characteristics (Overall) Nom. Characteristics (Overall) Nom Characteristics (Overall) Nom Characteristics (Overall) <t< th=""><th>EU Directive 2000/53/EC (ELV):</th><th>Yes</th></t<>	EU Directive 2000/53/EC (ELV):	Yes			
EU Directive 2002/94/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 68 (CJ for Mine & Cabia): Yes Mil Order #39 (China RoHS): Yes Flame Test UL 1665 UL Loading Plenum/Non-Plenum Plenum/Non-Plenum Plenum Non-Plenum 83107 Electrical Characteristics (Overall) No Nom. Characteristic Impedance: Bill Oracteristic Impedance: Impedance (Dim) Sastiance Conductor: Capacitance Conductor to Conductor: Capacitance (Diff) Zo Nom. Conductor & Shield: Differed 202*** (Dimini/1000 fi) Nom. Capacitance (Dimini Vietor) of Propagation: V0 (YG YG) Nom. Capacitance (Dimini Vietor) of Propagation: V0 (YG YG) Nom. Capacitance (Dimini Vietor) of Propagation: V0 (YG YG) Nom. Capacitance (Dimini Vietor) So YG XG (ULA MM Syle 2019) Nom YG	EU Directive 2002/95/EC (RoHS):	Yes			
EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes Mill Order #39 (China RoHS): Yes Flame Test UL Base Test: UL 1085 UL Loading Plenum (YN): No Plenum (YN): No Plenum (YN): No Plenum (YN): No Plenum (YN): No Plenum (YN): No Plenum Number: 88107 No No Constraintsic Impedance: Mind Anarchinistic Impedance: No No Nom. Capacitance Conductor to Conductor: Constraintsic Impedance: No No Inspectance Conductor to Conductor: Consectance (offit) 25 No No 25 Test No No No No Nom. Conductor D Censistance: Decemption No No No No Nom. Conductor D Resistance: Decemption No	EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004			
CA Prop 45 (CJ for Wire & Cable): Yes MII Order #39 (China RoH3): Yes Flame Test: UL 1085 UL Loading Plenum Nom-Plenum Bill Order #39 (China RoH3): Plenum Y(Yi): No Plenum Y(Yi): No Plenum Number: 88 107 Electrical Characteristics (Overall) Nom. Characteristics (Overall) Nom. Characteristic Inpedance: Impedance (Orim) Nom. Characteristic Inpedance: Section (Diff) Nom. Capacitance Conductor to Conductor & Shield: Capacitance (Diff) 12.5 Nom. Capacitance Conductor & Shield: Capacitance (Diff) Section (Diff) 12.5 Nom. Capacitance Conductor & Shield: Capacitance (Diff) Section (Diff) 12.5 Nom. Conductor DC Resistance: VP (20) Nom. Conductor DC Resistance: DCR grade (Dimit Vide) Market (Dimit Vide)	EU Directive 2002/96/EC (WEEE):	Yes			
MII Order #39 (China RoHS): Yes Flame Test UL 1885 UL Loading UR UL 1885 UL Loading Plenum Number: No Plenum Number: 88 107 Electrical Characteristics (Overall) Non Nom. Characteristic Impedance: Impedance (Original Control Conductor to Conductor: Cospectance Control Cospectance (pf/fi) 12.5 State of the Conductor & Shield: Capacitance (pf/fi) State of the Conductor & Shield: 22 State of the Conductor & Shield: Capacitance Cont. to Other Conductor & Shield: Capacitance (pf/fi) 23 State of the Conductor & Shield: Capacitance (pf/fi) State of the Conductor & Shield: State of the Conductor of the Conductor & Shield: State of the Conductor & Shield: State of the Conductor of the Conductor & Sh	EU Directive 2003/11/EC (BFR):	Yes			
UL Flame Test UL 1685 UL Loading UL Flame Test: UL 1685 UL Loading Plenum/Non-Plenum Plenum (Y/N): Plenum Number: 08107 Contractoristics (Overall) Non. Characteristics (Overall) Nom. Characteristics (Overall) Non. Characteristics (Overall) Nom. Capacitance Conductor to Conductor: Cipacitance (Piff) 12.5 Capacitance Conductor & Shield: Capacitance Conductor of Shield: Cipacitance (Piff) 22 Nom. Capacitance Conductor & Shield: Capacitance Conductor DC Resistance: Vef (Sig) Via Solution (Sig) Via Solution (Sig) Nom. Conductor DC Resistance: DeR @ 20*C (Ohm/1000 f) 24 Solution (Sig) Nom. Solution (Sig) Solution (Sig) 33 V FMS UL AWM Style 2019 330 V FMS CM 330 V FMS CM Max. Recommended Current: Signer (Signer) 1.5 Amps per conductor @ 25*C Signer (Signer)	CA Prop 65 (CJ for Wire & Cable):	Yes			
UL Flame Test: UL 1085 UL Loading Plenum Yumber: No Plenum Yumber: 83107 Comparing Comparing No Electrical Characteristics (Overall) No Nom. Characteristics (noterall) No Demon Yumber: Satisfie Demon Yumber: No Demon Yumber: Satisfie Satisfie Satisfie Satisfie Satisfie Satisfie Satisfie Satisfie Satisfie Satisfie Satisfie	MII Order #39 (China RoHS):	Yes			
Plenum/Non-Plenum Plenum (YiN): No Plenum Number: 88107 Electrical Characteristics (Overall) Nom. Characteristics (Inpedance: Impedance (Ohm) 100 Nom. Capacitance Conductor to Conductor: Capacitance (pf:ft) I2.5 Nom. Capacitance (pf:ft) Nom. Capacitance (pf:ft) Shield: Capacitance (pf:ft) Capacitance (pf:ft) Nom. Capacitance (pf:ft) Shield: VF (%) Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) Shield: Shimal Voltage - UL: Yottage Description Sour RMS GAM Sour RMS CAM Sour RMS	Flame Test				
Pieum (Yi):: No Pieum Number: 88107 Contracteristics (Overall) Contracteristics (noverall) Nom. Characteristics (noverall) Contracteristics (noverall) Nom. Capacitance (pf/fi) Conductor to Conductor & Shield: Capacitance (pf/fi) Conductor of Conductor & Shield: Capacitance (pf/fi) Conductor of Propagation: Nom. Capacitance (pf/fi) Conductor of Propagation: Nom. Capacitance (pf/fi) Conductor Propagation: Sontendice (pf/fi)	UL Flame Test:	UL1685 UL Loading			
Plenum Number: 88107 Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 00 100 Nom. Characteristic Impedance: Impedance (Ohm) 00 Nom. Capacitance Conductor to Conductor: Capacitance (of/ff) 12.5 Nom. Capacitance (of/ff) 22 Nom. Capacitance (of/ff) 23 Nom. Compacitance: DCR @ 20°C (Ohm/1000 ff) A 3.5 Nom. Scapacitance: DCR @ 20°C (Ohm/1000 ff) A 3.5 Max. Operating Voltage - UL: Voltage Description Syle 2919 300 V RMS (LL AWM Syle 2919 Solution MS 300 V RMS (M Max. Recommended Current: Torrent Torrent 1.5 Amps per conductor @ 25°C Solution (Solution (Solutio	Plenum/Non-Plenum				
Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 100 100 Nom. Capacitance Conductor to Conductor: Capacitance Conductor to Conductor & Shield: Capacitance (pFff) 12.5 Nom. Capacitance (of Propagation: VP (%) Nom. Conductor DC Resistance: DCR 20°C (Ohm/1000 ft) 24 Nominal Outer Shield DC Resistance: DCR 20°C (Ohm/1000 ft) 3.5 Max: Operating Voltage - UL: Voltage Description 30 V RMS [UL AVM Spie 2919] 300 V RMS [UL AVM Spie 2919] 300 V RMS [CM	Plenum (Y/N):	No			
Nom. Characteristic Impedance: Impedance (Ohm) 100 Nom. Capacitance Conductor to Conductor: Capacitance (pF/ft) 12.5 Nom. Capacitance (pF/ft) 22 Nom.inal Velocity of Propagation: VF (%) 7a Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 2.4 Nominal Outer Shield DC Resistance: DR @ 20°C (Ohm/1000 ft) 3.5 Max. Operating Voltage - UL: Voltage Description 30 V RMS CM 300 V RMS CM 300 V RMS CM Max. Recommended Current: Current 1.5 Amps per conductor @ 25°C	Plenum Number:	88107			
Nom. Characteristic Impedance: Impedance (OPm) 100 Nom. Capacitance Conductor to Conductor: Capacitance (pF/ft) 12.5 Nom. Capacitance (pF/ft) 22 Nom. Capacitance (pF/ft) 23 Nom. Conductor DC Resistance: VP (%) 78 Nom. Conductor DC Resistance: VP (%) 3.5 Nominal Outer Shield DC Resistance: Variation Outer Shield DC Resistance:	Electrical Characteristics (Overall)				
1.5 Amps per conductor @ 25°C	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) 3.5 Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM				
Notes (Overall)	Current				
	Notes (Overall)				

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
8107 060100	100 FT	6.800 LB	CHROME		7 PR #24 FHDPE SH PVC
8107 0601000	1,000 FT	63.000 LB	CHROME	С	7 PR #24 FHDPE SH PVC
8107 060500	500 FT	33.000 LB	CHROME	С	7 PR #24 FHDPE SH PVC

Notes: C = CRATE REEL PUT-UP.



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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.