Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9L28325 Flat - Shielded Jacketed 9L283XX Series







Description:

The shielded jacketed 9L283XX series provides shielding from external electrical interference and allows for greater flexibility, ease of termination, while providing exterior protection from the environment.

Physical Characteristics (Overall)	
Conductor	
AWG: # Conductors AWG Stranding Conductor Material	
25 28 7x36 TC - Tinned Copper	
Conductor Spacing Center to Center:	.050 +/002
Conductor Spacing Outside Center to Outside Center:	1.20 +/008
Insulation Insulation Material:	
Insulation Material Wall Thickness (in.)	
PVC - Polyvinyl Chloride .010	
Insulation Resistance:	>10, 000 Megaohms
Outer Shield Outer Shield Material:	
Outer Shield Trade Name Type Outer Shield Material	Coverage (%)
Beldfoil® Tape Aluminum Foil-Polyester	Tape (Foil Side In) 100.000
Outer Shield Drain Wire AWG:	
AWG Stranding Drain Wire Conductor Material 2-28 7x36 TC - Tinned Copper	
Outer Jacket Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (in.)	
PVC - Polyvinyl Chloride .038	
Overall Cabling	
Overall Nominal Thickness:	.122 +/012
Overall Nominal Width:	1.35
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +105°C
Bulk Cable Weight:	97 lbs/1000 ft.
Applicable Specifications and Agency Com	pliance (Overall)
Applicable Standards & Environmental Program	
UL AWM Style:	20081
UL Rating:	105°C, 300 V RMS, VW-1
CSA Specification:	AWM II A 105°C 300 V, FT1

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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9L28325 Flat - Shielded Jacketed 9L283XX Series

EU CE Mark: Yes EU Directive 2000/SJEC (ELV): Yes EU Directive 2002/96/EC (WEEE): Yes EU Robit Sconpliance Date (mwiddyyyy): 10/01/2005 EU Directive 2002/96/EC (WEEE): Yes EU Arpo 56 (CJ for Wire & Cable): Yes MI Order Staf S (Chins Roths): Yes Flame Test: WV-1 CSA Flame Test: WV-1 Surface Printing: No Surface Printing (Overall) Nom. Characteristic Impedance: Nom. Characteristic Impedance: Capacitance (PMT) @ 1 Mint (cSS0) with shaled grounded [11] Nom. Characteristic Impedance (PMT) @ 1 Mint (cSS0) with shaled grounded [12] Nom. Characteristic Impedance (PMT) @ 1 Mint (cSS0) with shaled grounded [12] Nom. Characteristic Impedance (PMT) @ 1 Mint (cSS0) with shaled grounded [13] Nom. Characteristic Impedance (PMT) @ 1 Mint (cSS0) with shaled grounded [12] Nom. Characteristic Impedance (PMT) @ 1 Mint (cSS0) with shaled grounded [13]	CSA Rating:			105°C, 300 V RMS, FT1		
EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mmidd/yyyy): 1001/2005 EU Directive 2002/96/EC (WEEE): Yes MIL Graine Tost: Yes UL Flame Tost: WU-1 CSA Flame Tost: FT1 Plenum(YNN): No Surface Printing: BELDEN: 728 AWG SCSA AWM II A 105*C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 Er2083 Nom. Characteristic Inpedance: Secretion Electrical Characteristic Overall) AWM STYLE 20081 VW-1 Er2083 Nom. Characteristic Impedance (DMT) AWM STYLE 20081 VW-1 Er2083 Versition: Impedance (DMT) @ 1 Mix (SGS) with shind grounded 13 AWM STYLE 20081 VW-1 Er2083 Nom. Inductance: Impedance (DMT) @ 2 Mix (SGS) with shind grounded 170 G @ 1 Mix (SGS) with shind grounded 170 G @ 2 Mix (SGS) with shind grounded 171 G @ 2 Mix (SGS) with shind grounded 172						
EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mmidd/yyyy): 100/1/2005 EU Directive 2002/96/EC (WEEE): Yes MI Order #39 (China RoHS): Yes MI Order #39 (China RoHS): Yes Flame Test: UL Flame Test: UL Flame Test: FT1 Plenum (Y/N): No Surface Printing: BELDEN: 7 28 AWG CSA AWM II A 105'C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 WH: 161 205'C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 WH: 161 205'C 300 V FT-1 LL7874 (UL LOGO) Mon: Characteristics (Overall) Non: Characteristics (Overall) Nom: Inductance: Description Mol Characteristics (Overall) Nom: Characteristics (Impedance (IMT) (@ 1 M4// CIGSI) with shield grounded [17 Nom: Inductance: Description Mol Characteristics (Impedance (IMT) @ 1 M4// CIGSI) with shield grounded [70 (@ 1 M4// CIGSI) with shield grounded [70 (@ 1 M4// CIGSI) with shield grounded [71 (@ 1 M4// CIGSI) with shield grounded [70 (@ 2 China/YOB1)		EC (ELV):				
EU RoHS Compliance Date (mm/dd/yyyy): 10/01/2005 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2002/96/EC (WEEE): Yes EU Directive 2002/96/EC (WEEE): Yes CA Prop 65 (CJ for Wire & Cable): Yes MI Order #39 (China RoH5): Yes Flame Test UL Flame Test: VW-1 CSA Flame Test: VW-1 Plenum (VN): No Surface Printing (Overall) Nov Surface Printing (Overall) BELDEN: 728 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristics (Overall) Nov. Inductance: Description in Impedance: Description in Inductance (uWIN) © 1 MHz (CSG) with shield grounded [45 Nov. Inductance: Description in Capacitance (offit) © 1 MHz (CSG) with shield grounded [30 Norm. Inductance: Description in Inductance (uWIN) © 1 MHz (CSG) with shield grounded [30 Nov. Nome Inductive C Propagation: Description in Inductance (uWIN) © 1 MHz (CSG) with shield grounded [30 Nov. Nome Inductive C Propagation: Description In Inductance (uWIN)				Ves		
EU Directive 2002/86/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes Mill Order #39 (Chine RoH5): Yes Flame Test: VW-1 CSA Flame Test: F11 Plenum/Non-Plenum Plenum (Yk): No Surface Printing (Ovorall) Burface Printing (Ovorall) BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12883 Electrical Characteristics (Overall) No Nom. Characteristic Impedance (OMM) Electrical Characteristic goverall) Nom. Characteristic goverall) Nom. Characteristic Impedance (OMM) Value (SGS) with sheld grounded 10 Televeral (SGS) Øscription Capacitance (Griff) Ø 1 MHz (SGS) with sheld grounded 50 Øscription Capacitance (Griff) Ø 1 MHz (SGS) with sheld grounded 50 Nominal Vei Ki (SGS) with sheld grounded 50 Nominal Vei Ki (SGS) with sheld grounded 50 Nominal Vei Ki (SGS) with sheld grounded 50 Bit (SGS) with sheld grounded 50 Sign (SGS) with sheld grounded 50 Bit (SGS) with sheld grounded 50 Bit (SGS) with sheld grounded 50 <				10/01/2005		
EU Directive 2003/11/EC (BFR): Yes GA Prop 65 (GJ for Wire & Cable): Yes MU Flame Test: Yes UL Flame Test: WV-1 CSA Flame Test: FT1 Plenum (YN): No Surface Printing (Overall) Surface Printing (Overall) Surface Printing (Overall) BELDEN.7 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 WV-1 E12683 Electrical Charactoristics (Overall) Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 14 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 15 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 16 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 170 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 10 (GSS) with sheld grounded 11 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 10 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 10 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 10 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 10 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 10 Nom. Charactoristic Impedance (MMT) (0.1 MAR (SGS) with sheld grounded 10 SGS Nom. Charactoristic Imp						
CA Prop 65 (CJ for Wire & Cablo): Yes Mill Order #39 (China RoHS): Yes Flame Test: W/1 CSA Flame Test: FT1 Plenum(YNon-Plenum FT1 Plenum(YN): No Surface Printing (Overall) Butter Plenum (YN): Nom. Characteristics (Overall) AWM STYLE 20081 VW-1 E12683 Nom. Inductance: Description Description (CSG) with shield grounded [45 Nom. Inductance: Nom. Algostiance Conductor to Conductor: Description (CSG) with shield grounded [50 Nominal Velocity of Propagation: Description [50 [61] [70] Nominal Velocity of Propagation: Description [50] [62] [70] Nom. Conductor DC Resistance: Description [50] [63] [72] [63] [63] [63] [72]		EU Directive 2002/96/EC (WEEE):				
Mill Order #39 (China RoHS): Yes Flame Test W-1 LL Flame Test: W-1 CSA Flame Test: FT1 Plenum/Non-Plenum Plenum (Y/N): No Surface Printing (Overall) Surface Printing (Overall) BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 WW-1 E12683 Electrical Characteristics (Overall) Nom. Characteristic Impedance: Description Impadance (DMM) (CSG) with shield grounded [45 Nom. Inductance: Description Inductance (PFM) @ 1 MHz (CSG) with shield grounded [11 Nom. Capacitance Conductor to Conductor: Description Capacitance (PFM) @ 1 MHz (CSG) with shield grounded [50 Nominal Volocity of Propagation: Description Gapacitance (PFM) @ 1 MHz (CSG) with shield grounded [50 Nominal Volocity of Propagation: Description Freq. (MHz) Attenuation (dB/100 ft) @ 1 MHz (CSG) with shield grounded [50 Nominal Volocity of Propagation: Description Freq. (MHz) Attenuation (dB/100 ft) @ 60 Nominal Volocity of Propagation: @ 60 So		. ,				
Flame Test VW-1 GSA Flame Test: FT1 Plenum/Non-Plenum Plenum/Non-Plenum Plenum/Non-Plenum Plenum/Non-Plenum Plenum/Non-Plenum Plenum/Non-Plenum Surface Printing (Overall) Surface Printing (Overall) Surface Printing (Overall) BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristics (Overall) Mom Characteristic Impedance (Ohm) (CSSG) with shield grounded 45 Nom. Inductance: Description Description Inductance (pHft) (@ 1 M#z (SSG) with shield grounded 10 @ 1 M#z (SSG) with shield grounded 10 Impedance (Pfft) (@ 1 M#z (SSG) with shield grounded 10 @ 1 M#z (SSG) with shield grounded 10 Impedance (Pfft) (@ 1 M#z (SSG) with shield grounded 10 @ 1 M#z (SSG) with shield grounded 10 Impedance (Pfft) (@ 1 M#z (SSG) with shield grounded 10 Mominal Velocity of Propagation: Description (B 2 Or (Dhm 1000 ft) (B 2 Or MS 1000 ft) (D 2 Or S) (SS 0) (M 1 shield grounded 10 1 0 (D 2 Or S) (SS 0) (M 1 shield grounded 10 1 12.5 (SS 0) (M 1 shield grounded 10 1 12.5 (SS 0) (M 1 shield grounded 10 12.5 (S	CA Prop 65 (CJ for Wi	re & Cable):	Yes		
UL Fiame Test: VW-1 CSA Fiame Test: FT1 Plenum (Y/N): No Surface Printing (Overall) Surface Printing (Overall) Surface Printing: BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristic (Overall) BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristic (Overall) Becorption Impedance (Mrf) (GSG) with shield grounded [45 Immediate (GMR) Description Impedance (Mrf) (GSG) with shield grounded [11 Immediate (GMR) Description Capacitance (GMR) (GSG) with shield grounded [11 Immediate (GMR) Description Capacitance (GMR) (GSG) with shield grounded [11 Immediate (GMR) Description Capacitance (GMR) (GSG) with shield grounded [11 Immediate (GMR) Nom. Inductance Immediate (GMR) (GSG) with shield grounded [11 Immediate (GMR) Nominal Velocity of Propagation: Secription (GSG) with shield grounded [10 1 (SMR) Mishield grounded [10	MII Order #39 (China F	RoHS):		Yes		
CSA Flame Test: FT1 Plenum/Non-Plenum Plenum (YIN): No Surface Printing (Overall) BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristics (Overall) BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Non. Characteristic Impedance: Description Impedance (DMD) (CSG) with shield grounded [45 Nom. Inductance: Description Impedance (DMD) (CSG) with shield grounded [11 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ff) (0 1 MHz (CSG) with shield grounded [50] Nominal Velocity of Propagation: Description (Pf (%)) (0 1 MHz (CSG) with shield grounded [50] Nominal Delay: Disty (nsff) (1 7 NSFT. (CSG) with shield grounded [30] ISA Nominal Delay: Disty (nsff) (CSG) with shield grounded [30] 12.5 (CSG) with shield grounded [30] Nom. Attenuation: Rescription FT (MX) (CSG) with shield grounded [30] 12.5 Nom. Attenuation [30] 12.5 (CSG) with shield grounded [30] Nom. Attenuation [30] 12.5 (CSG) with shield grounded [30] Nom. Attenuation [30] 12.5 (CSG) with shield grounded [30] (CSG) with	Flame Test					
Description Image: Conductor to Conductor: Description Conductor to Conductor: Description C	UL Flame Test:			VW-1		
Plenum (YIN): No Surface Printing (Overall) Bufface Printing: BELDEN-T 28 AWG CSA AWM II A 105'C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristics (Overall) Contracteristic Impedance: Impedance (Ohm) (CSG) with shield grounded [45 Nom. Inductance: Impedance (Ohm) (CSG) with shield grounded [11 Impedance (Ohm) (CSG) with shield grounded [11 Nom. Capacitance Conductor to Conductor: Impedance (Ohm) (0 1 MHz (CSG) with shield grounded [10 Nom. Capacitance Conductor to Conductor: Impedance [0 ft] (0 1 MHz (CSG) with shield grounded [10 Nom. Capacitance Conductor to Conductor: Impedance [0 ft] (0 1 MHz (CSG) with shield grounded [10 Description Capacitance (Off) (0 1 MHz (CSG) with shield grounded [10 Nom. Capacitance (Dr Propagation: Impedance [0 ft] (0 1 MHz (CSG) with shield grounded [11 Nom. Conductor DC Resistance: Impedance [0 ft] (0 1 MHz (CSG) with shield grounded [11 Nom. Conductor DC Resistance: Impedance [0 ft] (0 1 MHz (CSG) with shield grounded [11 Nom. Conductor DC Resistance: Impedance [0 ft] (0 1 MHz (CSG) with shield grounded [11 Nom. Conductor DC Resistance: Impedance [0 ft] (0 1 MHz (CSG) with shield grounded [11 Nom. Conductor DC Resistance: Impedance [0 ft] (0 1 MHz (CSG) with shield grounded [12 ft	CSA Flame Test:			FT1		
Surface Printing (Overall) Surface Printing: BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristics (Overall) Non. Characteristic Impedance: Description Impedance (0hm) (CSS) with shield grounded 45 Nom. Inductance: Description Inductance (uP/f1) ① 1 MHz (CSG) VIII shield grounded 70 ① 1 MHz (CSG) VIII shield grounded 70 ② 1 MHz (CSG) VIII shield grounded 70 ③ 1 MHz (CSG) VIII shield grounded 70 ③ 1 MHz (CSG) VIII shield grounded 70 ④ 1 MHz (CSG) VIII shield 70 O MEZ (CINII NIII)	Plenum/Non-Plenum					
Burface Printing: BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristics (Overall) Nom. Characteristic Impedance: Description Impedance (0hm) (GSG) with shield grounded [45 Nom. Inductance: Description Impedance (0H/ft) @ 1 MHz (GSG) with shield grounded [70 @ 1 MHz (GSG) with shield grounded [70 Capacitance Conductor to Conductor: @ 2 MHz (GSG) with shield grounded [50 Consciption Capacitance (pF/ft) [60] Nominal Velocity of Propagation: Description [70] Capacitance (DF/ft) [70] Delay (ns/ft) Delay: Description [70] Capacitance (DF/ft) [70] Nom. Conductor DC Resistance: DCR @ O'C (Ohm/f000 ft) [82 OHMS/1000 FT: MAX Description [70] G Nom. Attenuation Description [70] 0 0 0 Description [632 OHM shield grounded [20] 0.5 0 0 Diag (ns/ft) District (SSG) with shield grounded [20] 0.5 0 Diag (ns/ft) District (SSG) with shield grounded [20] 0.5 0 Diag (ns/ft) District (SSG) with shield grounded [20] 0.5 0	Plenum (Y/N):			No		
Burface Printing: BELDEN-T 28 AWG CSA AWM II A 105°C 300 V FT-1 LL7874 (UL LOGO) AWM STYLE 20081 VW-1 E12683 Electrical Characteristics (Overall) Nom. Characteristic Impedance: Description Impedance (0hm) (GSG) with shield grounded [45 Nom. Inductance: Description Impedance (0H/ft) @ 1 MHz (GSG) with shield grounded [70 @ 1 MHz (GSG) with shield grounded [70 Capacitance Conductor to Conductor: @ 2 MHz (GSG) with shield grounded [50 Consciption Capacitance (pF/ft) [60] Nominal Velocity of Propagation: Description [70] Capacitance (DF/ft) [70] Delay (ns/ft) Delay: Description [70] Capacitance (DF/ft) [70] Nom. Conductor DC Resistance: DCR @ O'C (Ohm/f000 ft) [82 OHMS/1000 FT: MAX Description [70] G Nom. Attenuation Description [70] 0 0 0 Description [632 OHM shield grounded [20] 0.5 0 0 Diag (ns/ft) District (SSG) with shield grounded [20] 0.5 0 Diag (ns/ft) District (SSG) with shield grounded [20] 0.5 0 Diag (ns/ft) District (SSG) with shield grounded [20] 0.5 0	Surface Printing (Over	rall)				
Nom. Characteristic Impedance: Description Inductance (pF/ft) @ 1 MHz (GSG) with shield grounded 11 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft) @ 1 MHz (GSG) with shield grounded 70 @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation: Description VP (%) @ 0 Num Capacitance (pF/ft) @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation: Description VP (%) @ 0 Num Capacitance Def (MHz) Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX. Nom. Attenuation: Pescription Freq. (MHz) Attenuation (dB/100 ft) 63.5 OHM shield grounded 20.5 Si (GSG) with shield grounded 20.5 Si 12.5 Si 12.5 Si 12.5 Si (GSG) with shield grounded 20.5 Si 12.5 Si 12.5 Si 12.5 Si 12.5 Si (GSG) with shield grounded 20.5 Si 12.5 Si		ianj				
Nom. Characteristic Impedance: Description Impedance (Ohm) (GSG) with shield grounded 45 Nom. Inductance: Description Inductance (µH/f) @ 1 MHz (GSG) with shield grounded 11 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/f) @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation: Description P(%) Nom. Conductor DC Resistance: Decarision DCR @ 20*C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX. Nom. Attenuation Description Freq. (MHz) Attenuation (db/100 ft) (GSG) with shield grounded 10 6 DCR @ 20*C (Ohm/1000 ft) Bescription Freq. (MHz) Attenuation (db/100 ft) (GSG) with shield grounded 10 6 Scription Freq. (MHz) Attenuation (db/100 ft) (GSG) with shield grounded 12.5 <		·····				
Description Impedance (Ohm) (GSG) with shield grounded 45 Nom. Inductance: Impedance (µH/t) @ 1 MHz (GSG) with shield grounded 11 Nom. Capacitance Conductor to Conductor: Capacitance (PF/t) @ 1 MHz (GSG) with shield grounded 70 @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation: Description Description VP (%) 60 Nominal Delay: Description VP (%) Babay 60 Nom. Attenuation: Prescription VP (%) DSC 20° (Ohm/1000 ft) 82 20° (MS/1000 ft) Babay Velocity of Propagation: DCR @ 20°C (Ohm/1000 ft) 83 20° (MS/100 ft) T/X NSFT. (GSG) with shield grounded 0 DCR @ 20°C (Ohm/1000 ft) 84 20° (MS/100 ft) (GSG) with shield grounded 0 9.5 Nom. Attenuation: Impediation (dB/100 ft) 17.2 (GSG) with shield grounded 0 21.5 <th></th> <th></th> <th>erall)</th> <th></th>			erall)			
Image:	· .		(Ohm)			
Nom. Inductance: Description Inductance (µH/ft) @ 1 MHz (GSG) with shield grounded .11 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft) @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation:		-				
Description Inductance (µH/f) @ 1 MHz (GSG) with shield grounded 1.1 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/f) @ 1 MHz (GSG) with shield grounded 70 @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation: Eastription Page (ns/f)						
@ 1 MHz (GSG) with shield grounded 11 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft) @ 1 MHz (GSG) with shield grounded 70 @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation: Description Description For pagation: 0 60 Nominal Delay: Description VP (%) 0 1.7 NS/FT. (GSG) with shield grounded DEC @ 20°C (Dim/1000 ft) 68.2 OHMS/1000 FT. MAX. Nom. Attenuation: Description Dec @ 20°C (Dim/1000 ft) 6 (GSG) with shield grounded 10 0 9.5 (GSG) with shield grounded 10 0 12.5 (GSG) with shield grounded 10 (GSG) with shield grounded 10 0 17.2 (GSG) with shield grounded 17.2 (GSG) with shield grounded 19 (GSG) with shield grounded 19 (GSG) with shield grounded 23 (GSG) with shield grounded 24.5		In	ductance (µH/ft)			
Description Capacitance (pF/f) @ 1 MHz (GSG) with shield grounded 70 @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation: Description VP (%) 60 60 Nominal Delay: Delay (ns/ft) Dialy (ns/ft) T.7 Ns/FT. (GSG) with shield grounded Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX 8 Nom. Attenuation: Exerciption Freq. (MHz) Attenuation (dB/100 ft.) (GSG) with shield grounded 10 6 (GSG) with shield grounded 9.5 6 (GSG) with shield grounded 10 14.9 (GSG) with shield grounded 10 14.9 (GSG) with shield grounded 10 17.2 (GSG) with shield grounded 10 14.9 (GSG) with shield grounded 10 19 (GSG) with shield grounded 10 19 (GSG) with shield grounded 10 14.9 (GSG) with shield grounded 10 14.9 (GSG) with shield grounded 10 14.9 (GSG) with shield grounded	@ 1 MHz (GSG) with shield	grounded .1	1			
@ 1 kHz (GSG) with shield grounded 70 @ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation:	Nom. Capacitance Conduc	ctor to Con	ductor:			
@ 1 MHz (GSG) with shield grounded 50 Nominal Velocity of Propagation:	· · · · · · · · · · · · · · · · · · ·		apacitance (pF/ft)			
Nominal Velocity of Propagation: Description VP (%) 60 Nominal Delay: Delay (ns/ft) 1.7 NS/FT. (GSG) with shield grounded Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX. Nom. Attenuation: Description Freq. (MH2) Attenuation (dB/100 ft.) (GSG) with shield grounded 10 6 (GSG) with shield grounded 12.5 (GSG) with shield grounded 12.5 (GSG) with shield grounded 17.2 (GSG) with shield grounded 19 (GSG) with shield grounded 19 (GSG) with shield grounded 23 (GSG) with shield grounded 24.5			-			
Description VP (%) 60 Nominal Delay: Delay (ns/ft) 1.7 NS/FT. (GSG) with shield grounded Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX. Nom. Attenuation: Description Freq. (MHz) Attenuation (dB/100 ft.) (GSG) with shield grounded 10 6 (GSG) with shield grounded 10 12.5 (GSG) with shield grounded<			U			
Bominal Delay: Delay (ns/ft) 1.7 NS/FT. (GSG) with shield grounded Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX. Nom. Attenuation: Description Freq. (MHz) Attenuation (dB/100 ft.) (GSG) with shield grounded 10 6 6 (GSG) with shield grounded 12.5 (GSG) with shield grounded 17.2 (GSG) with shield grounded 17.2 (GSG) with shield grounded 12.5 (GSG) with shield grounded 17.2 (GSG) with shield grounded 10 (GSG) with shield grounded 17.2 (GSG) with shield grounded 17.2 (GSG) with shield grounded 12.5 (GSG) w		gation:				
Delay (ns/ft) 1.7 NS/FT. (GSG) with shield grounded Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX. Nom. Attenuation: Cisco with shield grounded 10 6 (GSG) with shield grounded 20 9.5 (GSG) with shield grounded 30 12.5 (GSG) with shield grounded 40 14.9 (GSG) with shield grounded 50 17.2 (GSG) with shield grounded 60 19 (GSG) with shield grounded 70 21.5 (GSG) with shield grounded 80 23 (GSG) with shield grounded 80 23 (GSG) with shield grounded 80 23 (GSG) with shield grounded 90 24.5						
1.7 NS/FT. (GSG) with shield grounded Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX. Nom. Attenuation: Nom. Attenuation: Oscription Freq. (MHz) Attenuation (dB/100 ft.) (GSG) with shield grounded 10 6 (GSG) with shield grounded 20 9.5 (GSG) with shield grounded 30 12.5 (GSG) with shield grounded 30 12.5 (GSG) with shield grounded 50 17.2 (GSG) with shield grounded 60 19 (GSG) with shield grounded 70 21.5 (GSG) with shield grounded 80 23 (GSG) with shield grounded 80 23 (GSG) with shield grounded 90 24.5						
DCR @ 20°C (Ohm/1000 ft)68.2 OHMS/1000 FT. MAX.Nom. Attenuation:Description Freq. (MHz) Attenuation (dB/100 ft.)(GSG) with shield grounded 106(GSG) with shield grounded 209.5(GSG) with shield grounded 3012.5(GSG) with shield grounded 4014.9(GSG) with shield grounded 5017.2(GSG) with shield grounded 6019(GSG) with shield grounded 7021.5(GSG) with shield grounded 8023(GSG) with shield grounded 9024.5		d grounded				
B8.2 OHMS/1000 FT. MAX. Description Freq. (MHz) Attenuation (dB/100 ft.) (GSG) with shield grounded 10 6 (GSG) with shield grounded 20 9.5 (GSG) with shield grounded 30 12.5 (GSG) with shield grounded 50 17.2 (GSG) with shield grounded 50 17.2 (GSG) with shield grounded 60 19 (GSG) with shield grounded 70 21.5 (GSG) with shield grounded 80 23 (GSG) with shield grounded 90 24.5	Nom. Conductor DC Resis	tance:				
DescriptionFreq. (MHz)Attenuation (dB/100 ft.)(GSG) with shield grounded106(GSG) with shield grounded209.5(GSG) with shield grounded3012.5(GSG) with shield grounded4014.9(GSG) with shield grounded5017.2(GSG) with shield grounded6019(GSG) with shield grounded7021.5(GSG) with shield grounded8023(GSG) with shield grounded9024.5						
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(GSG) with shield grounded 90 24.5			21.5			
			23			
(GSG) with shield grounded 100 26						
	(GSG) with shield grounded	100	26			

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9L28325 Flat - Shielded Jacketed 9L283XX Series

Max. Operating Voltage - UL:

Voltage 300 V RMS

=

Max. Recommended Current:

Current

1 Amp per conductor @ 20°C

Dielectric Withstand Voltage:

2, 000 V RMS

Typical Unbalanced Crosstalk:

Description	Pulse Rise Time (NS) (MHz)	Near End % (MHz)	Far End % (MHz)
10 ft. sample length with ground connected to shield	3	1.5	2
10 ft. sample length with ground connected to shield	5	.9	1.5
10 ft. sample length with ground connected to shield	7	.7	1.2

Notes (Overall)

Notes: GSG=Ground-Signal-Ground Mode

Polarity Identification (Overall)

Polarity Identification:

RED POLARITY STRIPE ON #1 CONDUCTOR

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9L28325 010100	100 FT	9.300 LB	BLACK	E	25 #28 PVC FS PVC RIBBON

Notes:

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Shielded Jacketed 9L283XX Series

.050" Pitch, 28 AWG, PVC

Product Description

Belden's shielded jacketed 9L283XX series was designed to help meet the FCC EMI/RFI requirements. In addition, the cable provides shielding from external electrical interference along with excellent crosstalk attenuation. The thin extruded jacket allows for greater flexibility, ease of termination, and reduced space requirements, while providing exterior protection from the environment. The core cable is Belden's 9L280XX PVC series allowing easy termination to any standard IDC connector. All cables are 100% shielded with a Duofoil® shield (aluminum/polyester/aluminum) and can be terminated with the two 28 AWG drain wires. Thirteen various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

Color Code: Gray with Red polarity stripe.

Application: External interconnection or internal wiring of electronic equipment.

Physical Specifications

Conductor	28 AWG (7x36) Tinned Copper
Insulation	.010" Nom. Wall Gray PVC
Pitch	.050" ± .002"
Shielding	Duofoil Shield (Aluminum/Polyester/Aluminum)
Drain Wires	Two 28 AWG (7x36) Tinned Copper
Jacket	.038" Nom. Wall Black PVC
Temperature Rating	-20 to +105°C
Flammability Rating	UL: VW-1; CSA: FT1
UL Approval	File #E12683, Style 20081
CSA Approval	File #LL7874, CSA AWM II A 105°C 300V FT1
Packaging	100

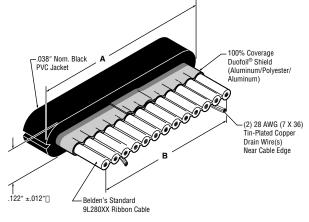
Electrical Specifications

Voltage Rating	300V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10¹⁰Ω • 10 ft. (3m)
Impedance*	45Ω
Capacitance* (@ 1 MHz)	50 pF/ft. (164 pF/m)
Inductance* (@ 1 MHz)	.11 μH/ft. (.36 μH/m)
Propagation Delay*	1.70 ns/ft. (5.6 ns/m)

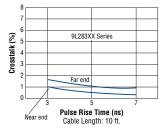
*Test Configuration: G-S-G (ground-signal-ground), with shield grounded.

	No.	Dimensions				
Part No.	of Cond.	Width "A"		Span "B"		
		Inch	mm	Inch	mm	
9L28309	9	.55	13.97	.40 ±.008	10.16 ±.20	
9L28310	10	.60	15.24	.45 ±.008	11.43 ±.20	
9L28315	15	.85	21.59	.70 ±.008	17.78 ±.20	
9L28320	20	1.10	27.94	.95 ±.008	24.13 ±.20	
9L28325	25	1.35	34.29	1.20 ±.008	30.48 ±.20	
9L28326	26	1.40	35.56	1.25 ±.008	31.75 ±.20	
9L28334	34	1.80	45.72	1.65 ±.008	41.91 ±.20	
9L28337	37	1.95	49.53	1.80 ±.012	45.72 ±.30	
9L28340	40	2.10	53.34	1.95 ±.012	49.53 ±.30	
9L28350	50	2.60	66.04	2.45 ±.012	62.23 ±.30	
9L28360	60	3.10	78.74	2.95 ±.012	74.93 ±.30	



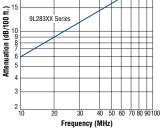


Unbalanced Crosstalk*





Attenuation*



7 • Flat Cable

7.11

BELDEN