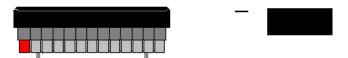
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9L28310 Flat - Shielded Jacketed 9L283XX Series



For more Information please call

1-800-Belden1



General Description:

EU Directive 2003/11/EC (BFR):

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 28 7x36 TC - Tinned Copper **Total Number of Conductors:** 10 **Conductor Spacing Center to Center:** .050 +/- .002 **Conductor Spacing Outside Center to Outside Center:** .45 +/- .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 Tape | Aluminum Foil-Polyester Tape (Foil Side In) | 100.000 Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material TC - Tinned Copper 2-28 7x36 **Outer Jacket Outer Jacket Material:** Outer Jacket Material Nom. Wall Thickness (in.) PVC - Polyvinyl Chloride | .038 **Overall Cable Overall Nominal Thickness:** .115 +/- .015 **Overall Nominal Width:** .570 +/- .035 **Mechanical Characteristics (Overall)** -20°C To +105°C Operating Temperature Range: **Bulk Cable Weight:** 47 lbs/1000 ft Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs **UL Rating:** UL AWM Style 2651, 20081 CSA Specification: AWM II A 105°C 300 V **CSA Rating:** 105°C, 300 V RMS, FT1 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): EU RoHS Compliance Date (mm/dd/yyyy): 10/01/2005 EU Directive 2002/96/EC (WEEE): Yes

Yes

Page 1 of 3 01-09-2015

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9L28310 Flat - Shielded Jacketed 9L283XX Series

	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes
Fla	me Test	
	UL Flame Test:	VW-1
	CSA Flame Test:	FT1
Ple	num/Non-Plenum	
	Plenum (Y/N):	No

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Description	Impedance (Ohm)	
(GSG) with shield grounded	45	

Nom. Inductance:

Description	Inductance (µH/ft)	
@ 1 MHz (GSG) with shield grounded	.11	

Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/ft)
@ 1 kHz (GSG) with shield grounded	70
@ 1 MHz (GSG) with shield grounded	50

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. (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	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	90	24.5
(GSG) with shield grounded	100	26

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
1 Amp per conductor @ 20°C

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

Page 2 of 3 01-09-2015

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9L28310 Flat - Shielded Jacketed 9L283XX Series

9L28310 010100	100 FT	5.200 LB	BLACK	E	10 #28 PVC FS PVC RIBBON
----------------	--------	----------	-------	---	--------------------------

Notes:

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

Revision Number: 3 Revision Date: 11-08-2012

© 2015 Belden, Inc All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its bublication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the 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.