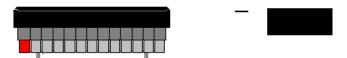
# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 9L28309 Flat - Shielded Jacketed 9L283XX Series



For more Information please call

1-800-Belden1



#### **General Description:**

EU Directive 2002/96/EC (WEEE):

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:** 9 **Conductor Spacing Center to Center:** .050 +/- .002 **Conductor Spacing Outside Center to Outside Center:** .40 +/- .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:** .520 +/- .035 **Mechanical Characteristics (Overall)** Operating Temperature Range: -20°C To +105°C **Bulk Cable Weight:** 44 lbs/1000 ft Min. Bend Radius/Minor Axis: 1.250 in. **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 FU CF Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 10/01/2005

Yes

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## 9L28309 Flat - Shielded Jacketed 9L283XX Series

	EU Directive 2003/11/EC (BFR):	Yes		
	CA Prop 65 (CJ for Wire & Cable):	Yes		
	MII Order #39 (China RoHS):	Yes		
Fla	Flame Test			
	UL Flame Test:	VW-1		
	CSA Flame Test:	FT1		
Ple	Plenum/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:**

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# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 9L28309 Flat - Shielded Jacketed 9L283XX Series

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9L28309 010100	100 FT	4.800 LB	BLACK	E	9 #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

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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