

## 9L28360 Flat - Shielded Jacketed 9L283XX Series



For more Information  
please call

1-800-Belden1



## General 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
60	28	7x36	TC - Tinned Copper

Total Number of Conductors: 60

Conductor Spacing Center to Center: .050 +/- .002

Conductor Spacing Outside Center to Outside Center: 2.95 +/- .012

## Insulation

## Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.010

Insulation Resistance: >10,000 Mega Ohms

## Outer Shield

## Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100

## 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 Cable

Overall Nominal Thickness: .122 +/- .012

Overall Nominal Width: 3.10

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +105°C

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

UL AWM Style:	20081
UL Rating:	105°C, 300 V RMS, VW-1
CSA Specification:	AWM II A 105°C 300 V, FT1
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):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

## 9L28360 Flat - Shielded Jacketed 9L283XX Series

CA Prop 65 (CJ for Wire & Cable):	Yes
-----------------------------------	-----

MIL Order #39 (China RoHS):	Yes
-----------------------------	-----

**Flame Test**

UL Flame Test:	VW-1
----------------	------

CSA Flame Test:	FT1
-----------------	-----

**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

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:**



9L28360 Flat - Shielded Jacketed 9L283XX Series

Item #	Putup	Ship Weight	Color	Notes	Item Desc
--------	-------	-------------	-------	-------	-----------

Revision Number: 1    Revision Date: 05-14-2007

© 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, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. 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.