

# Shielded Jacketed Vari-Twist® 9V283XX Series

.050" Pitch, 28 AWG, PVC

## Product Description

Belden's shielded jacketed 9V283XX 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. As with the 9V280XX series, the cable supplies the electrical benefits of twisted pairs, but can be mass-terminated in the programmed flat sections. The thin extruded jacket allows for greater flexibility, ease of termination, reduced space requirements, and identification of the flat sections while providing exterior protection from the environment. The core cable is Belden's 9V280XX PVC series to allow 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. Ten various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

**Color Code:** Each pair consists of a Tan conductor paired with a color-coded conductor. *Color Sequence Each Terminating Section:* Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Purple/Tan, Gray/Tan, White/Tan, Black/Tan. Sequence is repeated as necessary.

**Application:** External interconnection or internal wiring of electronic equipment.

## Physical Specifications

<b>Conductor</b>	28 AWG (7x36) Tinned Copper
<b>Insulation</b>	.010" Nom. Wall Color-coded PVC
<b>Substrate</b>	.010" Nom. Wall Clear PVC
<b>Pitch</b>	
Twisted Pair Centers:	.100" Nom.
Conductor Centers in Flat:	.050" ± .005"
<b>Pairs</b>	1/2" Nom. Lay
	Adjacent Pairs have Opposite Direction Lay
<b>Construction</b>	18" of Twisted Pairs 2" of Flat Section
<b>Shielding</b>	Duofoil Shield (Aluminum/Polyester/Aluminum)
<b>Drain Wires</b>	Two 28 AWG (7x36) Tinned Copper
<b>Jacket</b>	.038" Nom. Wall Black PVC
<b>Temperature Rating</b>	-20 to +105°C
<b>Flammability Rating</b>	UL: VW-1
<b>UL Approval</b>	File #E12683, Style 20081
<b>CSA Approval</b>	Available Upon Request
<b>Packaging</b>	100

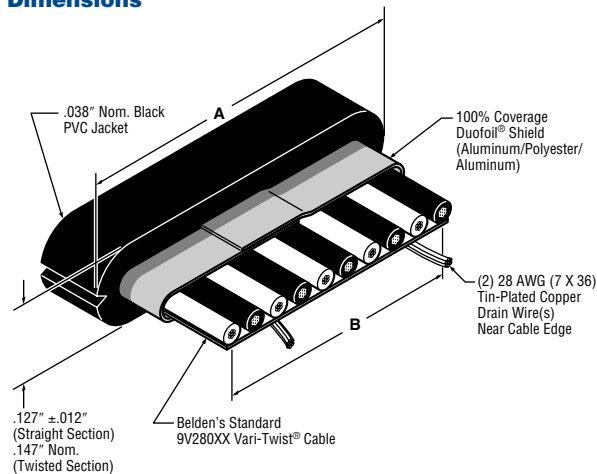
## Electrical Specifications

<b>Voltage Rating</b>	300V RMS
<b>Current Rating</b>	1A
<b>Conductor Resistance</b>	68.2Ω/1000 ft.
<b>Insulation Resistance</b>	>1 x 10 <sup>10</sup> Ω • 10 ft. (3m)
<b>Impedance (Balanced)</b>	100Ω
<b>Impedance* (Unbalanced)</b>	60Ω
<b>Capacitance* (@ 1 MHz)</b>	29 pF/ft. (95 pF/m)
<b>Inductance* (@ 1 MHz)</b>	.13 μH/ft. (.43 μH/m)
<b>Propagation Delay*</b>	1.60 ns/ft. (5.25 ns/m)

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

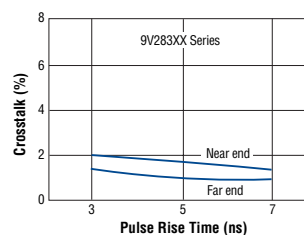
Part No.	No. of Pairs	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9V28310	5	.60	15.24	.45 ±.012	11.43 ±.30
9V28314	7	.80	20.32	.65 ±.012	16.51 ±.30
9V28326	13	1.40	35.56	1.25 ±.015	31.75 ±.38
9V28334	17	1.80	45.72	1.65 ±.015	41.91 ±.38
9V28350	25	2.60	66.04	2.45 ±.017	62.23 ±.43

## Dimensions



NOTE: the transition area is included in the twisted section to assure a full 2 Inches of flat termination area.

## Unbalanced Crosstalk\*



## Attenuation\*

