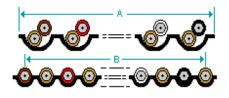
Detailed Specifications & Technical Data





9V28026 Flat - Vari-Twist® 9V280XX Series





For more Information please call

1-800-Belden1



Description:

Belden^s PVC Vari-Twist series was designed to reduce crosstalk in the balanced mode by twisting the pairs, but can be mass-terminated in the flat sections with standard IDC connectors.

Physical Characteristics (Overall)	
Conductor AWG:	
# Pairs AWG Stranding Conductor Material	
13287x36TC - Tinned Copper	
Conductor Spacing Center to Center Flat Section	a: .050 +/005
Conductor Spacing Outside Center to Outside Center:	1.25 +/015
Insulation	
Insulation Material:	
Insulation Material Wall Thickness (in.)	
PVC - Polyvinyl Chloride .010	
Substrate Thickness and Material:	.005
Outer Shield	
Outer Shield Material:	
Outer Shield Material Unshielded	
Overall Cable	
Overall Nominal Thickness Flat Section:	.042 +/003
Overall Nominal Thickness Twisted Section:	.080
Overall Nominal Width:	1.326
Overall Flat Section Length:	2
Overall Twisted Length:	18 in.
Flat Section Center to Center Spacing:	20 +/50
Pair	

Pair

Pair Color Code Chart:

Number	Color				
1	Brown/Tan				
2	Red/Tan				
3	Orange/Tan				
4	Yellow/Tan				
5	Green/Tan				
6	Blue/Tan				
7	Purple/Tan				
8	Gray/Tan				
9	White/Tan				
10	Black/Tan				
Over 10 pair	Repeat as required				

Detailed Specifications & Technical Data





9V28026 Flat - Vari-Twist® 9V280XX Series

Applicable Standards & Environmental Programs UL AWM Style: 2693 and 2697 UL Rating: 105°C, 300 V RMS, VW- 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 EU Directive 2003/11/EC (BFR): Yes MII Order #39 (China RoHS): Yes VUL Flame Test: VW-1 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): No Idectrical Characteristics (Overall) Iom. Inductance: Description Inductance (µH/ft) @ 1 MHz .24					
Buik Cable Weight: 42 lbs/1000 ft. Pplicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs UL AWM Style: 2693 and 2697 UL Rating: 105°C, 300 V RMS, VW- EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU Directive 2002/95/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes MII Order #39 (China RoHS): Yes Flame Test VW-1 Plenum (Y/N): No No No Idectrical Characteristics (Overall) Vov-1 Vom. Inductance: Description Inductance (µH/ft) @ 1 MHz .24					
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UL Rating: 105°C, 300 V RMS, VW- 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 EU Directive 2003/11/EC (BFR): Yes MIl Order #39 (China RoHS): Yes Flame Test VW-1 VL Flame Test: VW-1 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): No Cascription Inductance (µH/ft) @ 1 MHz .24 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft) Euseription Capacitance (pF/ft)					
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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 EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test VW-1 Plenum/Non-Plenum VW-1 Plenum (Y/N): No Stectrical Characteristics (Overall) No Nom. Inductance: Description Inductance (µH/ft) @ 1 MHz .24 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft)	105°C, 300 V RMS, VW-1				
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 CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test VW-1 Plenum/Non-Plenum VW-1 Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Inductance: Description Inductance (µH/ft) @ 1 MHz .24 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft)					
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MII Order #39 (China RoHS): Yes Flame Test VW-1 Plenum/Non-Plenum VW-1 Plenum (Y/N): No Electrical Characteristics (Overall) No Nom. Inductance: Description Inductance (µH/ft) @ 1 MHz .24 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft)					
Flame Test VW-1 Plenum/Non-Plenum No Plenum (Y/N): No Silectrical Characteristics (Overall) No Nom. Inductance: Description Inductance (µH/ft) @ 1 MHz .24 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft)					
Plenum/Non-Plenum Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Inductance: Description Inductance (µH/ft) @ 1 MHz .24 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft)					
Plenum/Non-Plenum Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Inductance: Description Inductance (µH/ft) @ 1 MHz .24 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft)					
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Description Inductance (μH/ft) @ 1 MHz .24 Nom. Capacitance Conductor to Conductor: Description Capacitance (pF/ft)					
@ 1 MHz 16					
Nominal Velocity of Propagation:					
Description VP (%) 64					
Nominal Delay:					
Delay (ns/ft) 1.6 NS/FT.					

68.2 OHMS/1000 FT. MAX.

Nom. Attenuation:

Freq. (MHz)	Attenuation	(dB/100 ft.)

10	3.5	
20	5.5	
30	7.2	
40	8.8	
50	10.2	
60	12	
70	13	

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ENGLISH MEASUREMENT VERSION

9V28026 Flat - Vari-Twist® 9V280XX Series

	00	110							
	80	14.2							
	90	15							
	100	16							
Ма	ax. Operatii	ng Volta	ge - UL:						
	Voltage								
	300 V RMS								
Ma	ax. Recomr	nended	Current:						
	Current								
	1 Amp per c	onductor	<u>ର ୧୦°C</u>						
No	ominal Bala	inced Cl	naracteris	tic Impedance:					
	Description Impedance (Ohm)								
		115							
No	Nominal Unbalanced Characteristic Impedance:								
	Description Impedance (Ohm)								
	100								
	Dielectric	c Withst	and Volta	je:	2, 000	V RMS			
Ту	pical Balar	nced Cro	osstalk - d	B Suppression:					
	Description	F	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Crosstalk	(dB)		
	10 ft. sample	e length		10	100	35			
Ту	Typical Unbalanced Crosstalk:								
	Description				Pulse Rise Time	(NS) (MHz)	Near End % (MHz)	Far End % (MHz)	
	10 ft. sample	e length al	I grounds co	onnected together.	3		5.8	5.2	1
	10 ft. sample	e length al	I grounds co	onnected together.	5		4	3.2	1
	10 ft. sample	e length al	I grounds co	onnected together.	7		2.5	2.8	1

Notes (Overall)

Notes: The transition area is included in the twisted length to assure a full 2 inches of flat termination area.

Kennedy Information (Overall)

Construction:

18" of Twisted Pairs, 2" of Flat Section

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9V28026 000H100	100 FT	4.300 LB	NONE	E	13 PR #28 PVC VARI-TWIST

Notes:

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

Revision Number: 2 Revision Date: 08-19-2009

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9V28026 Flat - Vari-Twist® 9V280XX Series

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