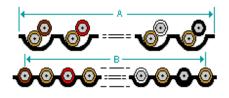
Detailed Specifications & Technical Data





9V28010 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	
5 28 7x36 TC - Tinned Copper	
Conductor Spacing Center to Center Flat Section	on: .050 +/005
Conductor Spacing Outside Center to Outside Center:	.45 +/012
Insulation	
Insulation Material:	
Insulation Material Wall Thickness (in.)	
PVC - Polyvinyl Chloride .010	
Substrate Thickness and Material:	.010" Clear PVC
Insulation Resistance:	>10, 000 Mega Ohms
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:	.50
Overall Flat Section Length:	2 +.5/0
Overall Twisted Length:	18 in.
Flat Section Center to Center Spacing:	20 +/50
Pair	
Pair Color Code Chart:	
Number Color	

Number	Color
1	Brown/Tan
2	Red/Tan
3	Orange/Tan
4	Yellow/Tan
5	Green/Tan

Spacing

Twisted Pair Spacing Center to Center: .100

Detailed Specifications & Technical Data





9V28010 Flat - Vari-Twist® 9V280XX Series

Mechani	cal Characteristics (Overall)	
Opera	ating Temperature Range:	-20°C To +105°C
Applicab	le Specifications and Agency (Compliance (Overall)
	le Standards & Environmental Pro	
UL A	WM Style:	2693 and 2697
UL Ra	ating:	105°C, 300 V RMS, VW-1
EU C	E Mark:	Yes
EU Di	rective 2000/53/EC (ELV):	Yes
EU D	rective 2002/95/EC (RoHS):	Yes
EU R	oHS Compliance Date (mm/dd/yyyy):	10/01/2005
EU Di	rective 2002/96/EC (WEEE):	Yes
EU Di	rective 2003/11/EC (BFR):	Yes
CA P	rop 65 (CJ for Wire & Cable):	Yes
MII O	rder #39 (China RoHS):	Yes
Flame Te	est	
UL FI	ame Test:	VW-1
	Non-Plenum	
Plenu	im (Y/N):	No
Electrica	I Characteristics (Overall)	
Nom. Indu		
Descrip @ 1 MH	tion Inductance (μH/ft) z .24	
-	acitance Conductor to Conductor:	
	tion Capacitance (pF/ft)	
@ 1 kHz		
@ 1 MH	z 16	
	/elocity of Propagation:	
Descrip	tion VP (%) 64	
Nominal [
Delay (r		
1.6 NS/		
Nom. Cor	ductor DC Resistance:	
	20°C (Ohm/1000 ft)	
	MS/1000 FT. MAX.	
Nom. Atte	nuation: IHz) Attenuation (dB/100 ft.)	
10	3.5	
20	5.5	
30	7.2	
40	8.8	

30	7.2
40	8.8
50	10.2
60	12
70	13
80	14.2
90	15
100	16

Max. Operating Voltage - UL:

Detailed Specifications & Technical Data



9V28010 Flat - Vari-Twist® 9V280XX Series

ENGLISH MEASUREMENT VERSION

		5		
Voltage				
300 V RMS				
Max. Recommended Current:				
Current				
1 Amp per conductor @ 20°C				
Nominal Balanced Characteristic Impedance	:			
Description Impedance (Ohm)				
115				
Nominal Unbalanced Characteristic Impedan	ce:			
Description Impedance (Ohm)				
100				
Dielectric Withstand Voltage:	2, 000 V	RMS		
Typical Balanced Crosstalk - dB Suppression	1:			
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) C	Crosstalk (dB)		
10 ft. sample length 10	100 3	35		
Typical Unbalanced Crosstalk:				
Description	Pulse Rise Time (N	NS) (MHz) Near End % (M	Hz) Far End % (MHz)	
10 ft. sample length all grounds connected together		5.8	5.2	
10 ft. sample length all grounds connected together		4	3.2	
10 ft. sample length all grounds connected together	. 7	2.5	2.8	
Notes (Overall)				
Notes (Overall)				

Kennedy Information (Overall)

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
9V28010 000H100	100 FT	2.800 LB	NONE	E	5 PR #28 PVC VARI-TWIST

Notes:

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

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

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