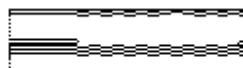
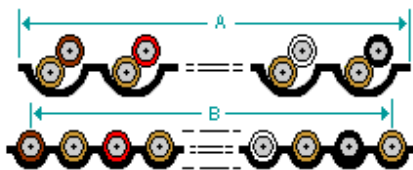


## 9V28050 Flat - Vari-Twist® 9V280XX Series



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
25	28	7x36	TC - Tinned Copper

Total Number of Conductors: 50

Conductor Spacing Center to Center Flat Section: .050 +/- .005

Conductor Spacing Outside Center to Outside Center: 2.45 +/- .017

**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: 2.50

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
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

**Spacing**

Twisted Pair Spacing Center to Center: .100

**Mechanical Characteristics (Overall)**

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

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

UL AWM Style: 2693 and 2697

UL Rating: 105°C, 300 V RMS, VW-1

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

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

MII Order #39 (China RoHS): Yes

**Flame Test**

UL Flame Test: VW-1

**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)
@ 1 kHz	20
@ 1 MHz	16

**Nominal Velocity of Propagation:**

Description	VP (%)
	64

**Nominal Delay:**

Delay (ns/ft)
1.6 NS/FT.

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 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

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70	13
80	14.2
90	15
100	16

## Max. Operating Voltage - UL:

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 Impedance:

Description	Impedance (Ohm)
	100

Dielectric Withstand Voltage: 2, 000 V RMS

## Typical Balanced Crosstalk - dB Suppression:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Crosstalk (dB)
10 ft. sample length		10	100	35

## Typical Unbalanced Crosstalk:

Description	Pulse Rise Time (NS) (MHz)	Near End % (MHz)	Far End % (MHz)
10 ft. sample length all grounds connected together.	3	5.8	5.2
10 ft. sample length all grounds connected together.	5	4	3.2
10 ft. sample length all grounds connected together.	7	2.5	2.8

## 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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9V28050 000H100	100 FT	7.400 LB	NONE	E	25 PR #28 PVC VARI-TWIST

## Notes:

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

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

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## 9V28050 Flat - Vari-Twist® 9V280XX Series

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)