

Vari-Twist® 9V280XX Series

.050" Pitch, 28 AWG, PVC

Product Description

Belden's PVC Vari-Twist 9V280XX series was designed to reduce crosstalk in the balanced mode by twisting the pairs, but can be mass-terminated in the programmed flat sections with any standard IDC connector. To further reduce crosstalk, each adjacent pair is twisted in the opposite direction. The standard twist length is 18 inches followed by a 2 inch flat section of .050" spaced conductors. The cable consists of stranded 28 AWG (7x36) tinned copper, color-coded PVC pre-insulated singles — laminated to a single clear PVC substrate. Eleven 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.

Upon your request, Vari-Twist can also be manufactured to your own specific requirements whether that be longer or shorter twist sections and/or flat sections.

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: Internal interconnection or internal wiring of electronic equipment.

Physical Specifications

Conductor	28 AWG (7x36) Tinned Copper
Insulation	.010" Nom. Wall Color-coded PVC
Substrate	.010" Nom. Wall Clear PVC
Pitch	
Twisted Pair Centers:	.100" Nom.
Conductor Centers in Flat:	.050" ± .005"
Pairs	1/2" Nom. Lay
	Adjacent Pairs have Opposite Direction Lay
Construction	18" of Twisted Pairs
	2" of Flat Section
Temperature Rating	-20 to +105°C
Flammability Rating	UL: VW-1
UL Approval	File #E12683,
	Style Dual Rated 2693 & 2697
CSA Approval	Available Upon Request
Packaging	H100

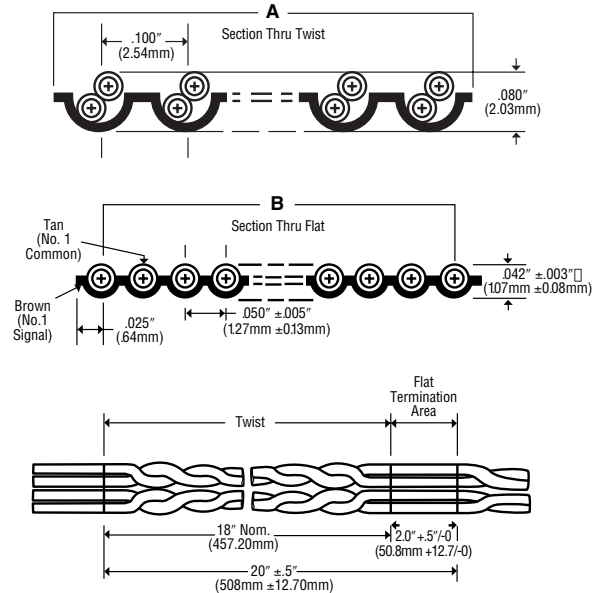
Electrical Specifications

Voltage Rating	300V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10 ¹⁰ Ω • 10 ft. (3m)
Impedance (Balanced)	115Ω
Impedance* (Unbalanced)	100Ω
Capacitance* (@ 1 MHz)	16 pF/ft. (52 pF/m)
Inductance* (@ 1 MHz)	.24 μH/ft. (.79 μH/m)
Propagation Delay*	1.60 ns/ft. (5.25 ns/m)

*Test Configuration: G-S (ground-signal), unbalanced.

Part No.	No. of Pairs	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
9V28010	5	.50	12.70	.45 ± .012	11.43 ± .31
9V28014	7	.70	17.78	.65 ± .012	16.51 ± .30
9V28016	8	.80	20.32	.75 ± .012	19.05 ± .30
9V28020	10	1.00	25.40	.95 ± .015	24.13 ± .38
9V28026	13	1.30	33.02	1.25 ± .015	31.75 ± .38
9V28034	17	1.70	43.18	1.65 ± .015	41.91 ± .38
9V28036	18	1.80	45.72	1.75 ± .017	44.45 ± .43
9V28040	20	2.00	50.80	1.95 ± .017	49.53 ± .43
9V28050	25	2.50	63.50	2.45 ± .017	62.23 ± .43
9V28060	30	3.00	76.20	2.95 ± .020	74.93 ± .51
9V28064	32	3.20	81.28	3.15 ± .020	80.01 ± .51

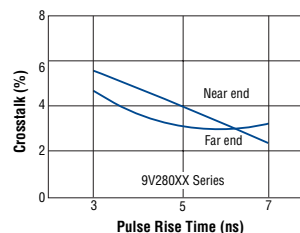
Dimensions



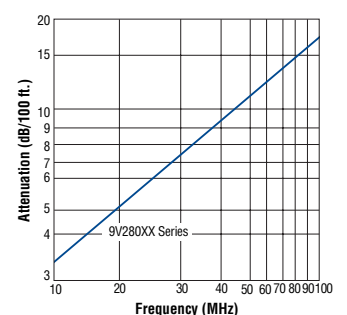
NOTE: the transition area is included in the twisted section to assure a full 2 inches of flat termination area.

Unbalanced Crosstalk*

(See page 7.14 for Balanced Crosstalk)



Attenuation*



Vari-Twist® 8V280XX Series

.050" Pitch, 28 AWG, FEP (High Temperature)

Product Description

Belden's FEP Vari-Twist 8V280XX series allows for high and low temperature, low out-gassing, and chemical resistant applications, improved electricals, and provides quick identification and circuit tracing. The cable was designed to reduce crosstalk in the balanced mode by twisting the pairs but can be mass-terminated in the programmed flat sections with any standard IDC connector. To further reduce crosstalk, each adjacent pair is twisted in the opposite direction. The standard twist length is 18 inches followed by a 2 inch flat section of .050" spaced conductors. The cable consists of stranded 28 AWG (7x36) silver-plated copper, color-coded FEP pre-insulated singles — laminated to a single clear FEP substrate. Eight various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved and passes the IEEE 383-1974 70,000 BTU Flame Test.

Upon your request, Vari-Twist can also be manufactured to your own specific requirements whether that be longer or shorter twist sections and/or flat sections.

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: Internal wiring of appliances or electronic equipment. May be additionally marked "For 300V Peak Electronic Use Only."

Physical Specifications

Conductor	28 AWG (7x36) Silver-plated Copper
Insulation	.010" Nom. Wall Color-coded FEP
Substrate	.010" Nom. Wall Clear FEP
Pitch	
Twisted Pair Centers:	.100" Nom.
Conductor Centers in Flat:	.050" ± .005"
Pairs	1/2" Nom. Lay
	Adjacent Pairs have Opposite Direction Lay
Construction	18" of Twisted Pairs
	2" of Flat Section
Temperature Rating	-70 to +150°C
Flammability Rating	UL: VW-1; IEEE 383-1974 70,000 BTU
UL Approval	File #E12683, Style 20468
Packaging	100

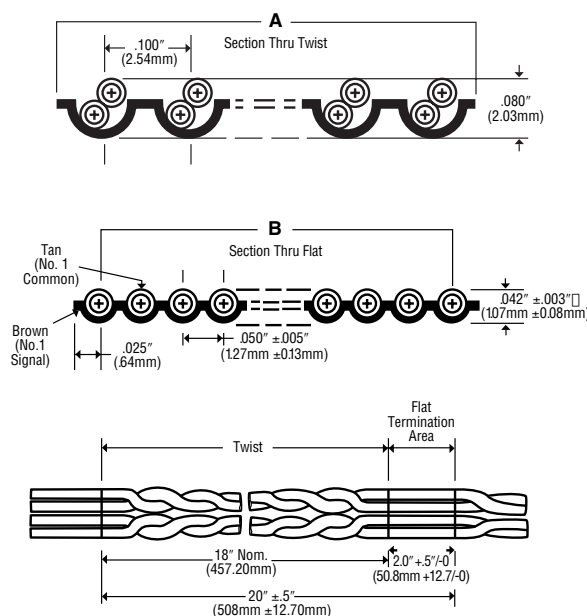
Electrical Specifications

Voltage Rating	150V RMS
Current Rating	1A
Conductor Resistance	68.2Ω/1000 ft.
Insulation Resistance	>1 x 10 ¹¹ Ω • 10 ft. (3m)
Impedance (Balanced)	145Ω
Impedance* (Unbalanced)	130Ω
Capacitance* (@ 1 MHz)	10.6 pF/ft. (34.78 pF/m)
Inductance* (@ 1 MHz)	.22 μH/ft. (.72 μH/m)
Propagation Delay*	1.32 ns/ft. (4.33 ns/m)

*Test Configuration: G-S (ground-signal), unbalanced.

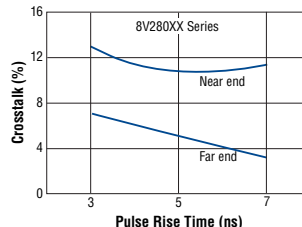
Part No.	No. of Pairs	Dimensions			
		Width "A"		Span "B"	
		Inch	mm	Inch	mm
8V28010	5	.50	12.70	.45 ±.012	11.43 ±.31
8V28014	7	.70	17.78	.65 ±.012	16.51 ±.31
8V28020	10	1.00	25.40	.95 ±.015	24.13 ±.38
8V28026	13	1.30	33.02	1.25 ±.015	31.75 ±.38
8V28036	18	1.80	45.72	1.75 ±.017	44.45 ±.43
8V28040	20	2.00	50.80	1.95 ±.017	49.53 ±.43
8V28060	30	3.00	76.20	2.95 ±.020	74.93 ±.51

Dimensions

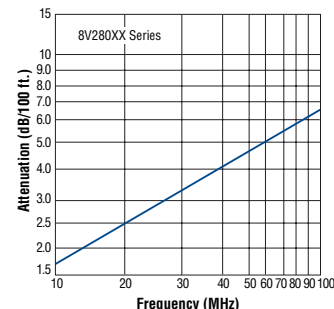


NOTE: the transition area is included in the twisted section to assure a full 2 inches of flat termination area.

Unbalanced Crosstalk*



Attenuation*





**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331