Belden

Product: 9V28026

Flat Vari-Twist Cable .050" Pitch, 9V280XX Series, #28-26c, PVC Ins on PVC Substrate

Product Description

Flat Vari-Twist Cable .050" Pitch, 9V280XX Series, 26 Conductors, 28 AWG (7x36) Tinned Copper, PVC Insulated Conductors on PVC Substrate

Technical Specifications

Product Overview

Suitable Applications:	Internal interconnection, internal wiring of electronic equipment, reduced crosstalk in balanced mode, can be mass-terminatable in flat sections with standard IDC connectors

Construction Details

Conductor

Size	Stranding	Material
28	7x36	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Color Code
PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Purple/Tan, Gray/Tan, White/Tan, Black/Tan, Repeat as required

Conductor Spacing Center-Center Outside:	1.250 +/- .015 in
Conductor Spacing Center-Center Flat Section:	.050 +/- .005 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Delay	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
68.2 Ohm/1000ft (224 Ohm/km)	20 pF/ft (66 pF/m)	115 Ohm	1.6 ns/ft	0.24 µH/ft (0.79 µH/m)	64%	1 Amp per Conductor at 20ºC
	16 pF/ft (52 pF/m)	110 Ohm				

Balanced Crosstalk

Description	Start Frequency	Stop Frequency	dB Suppression
10 ft. sample length	10 MHz	100 MHz	35 dB

Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time
10 ft. sample length all grounds connected together.	5.8	5.2	3 ns
10 ft. sample length all grounds connected together.	4	3.2	5 ns
10 ft. sample length all grounds connected together.	2.5	2.8	7 ns

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss (Attenuation)
10	3.5 dB/100ft
20	5.5 dB/100ft
30	7.2 dB/100ft
40	8.8 dB/100ft
50	10.2 dB/100ft
60	12 dB/100ft
70	13 dB/100ft

80	14.2 dB/100ft
90	15 dB/100ft
100	16 dB/100ft

High Frequency Table (Nominal/Typical) Notes:	18" of twisted pairs and 2" of flat section. The transition area is included in the twisted length to assure a full 2 inches of flat termination area.

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating
-20°C to +105°C

Bulk Cable Weight:	42 lbs/1000ft (63 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	VW-1
AWM Compliance:	AWM 2693, AWM 2697
CEC / C(UL) Compliance:	.
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.317 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Length	UPC	Footnote
9V28026 000H100	None	100 ft	612825222149	E

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

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