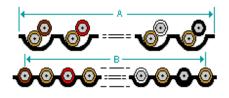
Detailed Specifications & Technical Data





9V28064 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 | |
| 32 28 7x36 TC - Tinned Copper | |
| Conductor Spacing Center to Center Flat Section | n: .050 +/005 |
| Conductor Spacing Outside Center to Outside Center: | 3.15 +/020 |
| 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: | 3.20 |
| Overall Flat Section Length: | 2 +.5/0 |
| Overall Twisted Length: | 18 in. |
| Flat Section Center to Center Spacing: | 20 +/50 |
| Poir | |

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 |

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ENGLISH MEASUREMENT VERSION

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9V28064 Flat - Vari-Twist® 9V280XX Series

| Over | 10 pair Repeat as required | |
|-------------------|--|------------------------|
| Specing | | |
| Spacing | ad Dain Craating Contants Contant | 400 |
| IWISt | ed Pair Spacing Center to Center: | .100 |
| Nechani | cal Characteristics (Overall) | |
| Opera | ating Temperature Range: | -20°C To +105°C |
| Applicab | le Specifications and Agency Co | ompliance (Overall) |
| | le Standards & Environmental Prog | |
| UL A | WM Style: | 2693 and 2697 |
| UL Ra | ating: | 105°C, 300 V RMS, VW-1 |
| EU CI | E Mark: | Yes |
| EU Di | rective 2000/53/EC (ELV): | Yes |
| EU Di | rective 2002/95/EC (RoHS): | Yes |
| EU Ro | 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 Pi | op 65 (CJ for Wire & Cable): | Yes |
| MII O | rder #39 (China RoHS): | Yes |
| Flame Te | est | |
| UL Fl | ame Test: | VW-1 |
| Plenum/l | Non-Plenum | |
| Plenu | ım (Y/N): | No |
| Electrica | I Characteristics (Overall) | |
| Nom. Indu | · · · · · | |
| Descrip | tion Inductance (µH/ft) | |
| @ 1 MH | | |
| Descrip | acitance Conductor to Conductor: tion Capacitance (pF/ft) | |
| @ 1 kHz @ 1 MH | | |
| | /elocity of Propagation: | |
| | tion VP (%) | |
| | 64 | |
| Nominal E | Delay: | |
| Delay (n | - | |
| 1.6 NS/F | Т. | |
| Nom. Con | ductor DC Resistance: | |
| | 20°C (Ohm/1000 ft) MS/1000 FT. MAX. | |
| Nom. Atte | nuation: | |
| Freq. (N | IHz) Attenuation (dB/100 ft.) | |
| 10 | 3.5 | |
| 20 | 5.5 | |
| 30 40 | 7.2 | |
| 40 | 8.8 | |

Detailed Specifications & Technical Data



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| Image: Second | | | | | | 3 | | |
|--|------------------|--------------------|----------------------|-------------------|-------------|-------------------|------------------------|----|
| As: Operating Voltage - UL: Voltage @00 V RMS Hax: Recommended Current: Current 1 Amp per conductor @ 20°C ominal Balanced Characteristic Impedance: Description Impedance (Ohm) 115 ominal Unbalanced Characteristic Impedance: Description Impedance (Ohm) 100 Dielectric Withstand Voltage: 2, 000 V RMS vpical Balanced Crosstalk - dB Suppression: Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Crosstalk (dB) 10 f. sample length 10 0 35 vpical Unbalanced Crosstalk - dB Suppression: Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Crosstalk (dB) 10 f. sample length 10 0 35 vpical Unbalanced Crosstalk: Description Preq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Crosstalk (dB) 10 f. sample length all grounds connected together: 3 6 8 52 10 f. sample length all grounds connected together: 7 2.5 2.8 Detest (Overall) Notes: The transition area is included in the twisted length to assure a full 2 inches of flat termination area. Entert I formation (Overall) Construction: 18° of Twisted Pairs, 2° of Flat Section Entert Ups and Colors: at Ups and Colors: at Ups All Colors I Suppression: Description Pairs | 90 1 | 5 | | | | | | |
| Voltage (00 V MS) tax. Recommended Current:: Current [1 Amp per conductor @ 20°C constant Balanced Characteristic Impedance: Description Impedance (Ohm) 100 100 100 100 100 101 100 101 101 102 105 pescription 101 100 101 101 102 103 104 105 105 106 107 107 108 109 109 100 101 101 102 105 105 106 107 108 109 109 101 102 103 104 105 105 105 106 106 <t< td=""><td>100 1</td><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | 100 1 | 6 | | | | | | |
| Voltage (00 V MS) tax. Recommended Current: Current [1 Amp per conductor @ 20°C ominal Balanced Characteristic Impedance: Description Impedance (Ohm) 115 Dislectric Withstand Voltage: 2, 000 V RMS Dislectric Withstand Voltage: 2, 000 V RMS voltal Balanced Crosstalk - dB Suppression: Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Crosstalk (dB) 101. sample length 102. sample length 103. sample length all grounds connected together: 3 68. 52 104. sample length all grounds connected together: 105. sample length all grounds connected together: 105. sample length all grounds connected together: 106. sample length all grounds connected together: 107. sample length all grounds connected together: 108. Strample length all grounds connected together: 109. Sample length all grounds connected together: 101. sample length all grounds connected together: 102. Sample length all grounds connected together: 103. Sample length all grounds connected together: 104. Sample length all grounds connected together: 105. Sample length all grounds connected together: 106. Sample length all grounds connected together: 107. Sample length all grounds connected together: 108. Strample length all grounds connected together: 109. Sample length all grounds connected together: 101. Sample length all grounds connected together: 102. Sample length all grounds connected together: | Max. Operating | Voltage - UL: | : | | | | | |
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| Dielectric Withstand Voltage: 2,000 V RMS ypical Balanced Crosstalk - dB Suppression: | Description I | mpedance (Ohm | 1) | | | | | |
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| elated Documents: o related documents are available for this product ut Ups and Colors: em # Putup Ship Weight Color Notes Item Desc | | | , | 18" of | Twisted Pa | airs 2" of Flat S | Section | |
| erelated documents are available for this product ut Ups and Colors: em # Putup Ship Weight Color Notes Item Desc | | | | | | | | |
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| | ut ops and | Colors: | | | | | | |
| V28064 000H100 100 FT 9.300 LB NONE E 32 PR #28 PVC VARI-TWIST | tem # | | Putup Ship | Weight | Color | Notes I | tem Desc | |
| | 9V28064 000H100 |) | 100 FT 9.30 | D LB | NONE | E | 32 PR #28 PVC VARI-TWI | ST |

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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9V28064 Flat - Vari-Twist® 9V280XX Series

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.