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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9R28010 Flat - Rainbow 9R280XX Series



For more Information please call

1-800-Belden1



General Description:

EU CE Mark:

EU Directive 2000/53/EC (ELV):

Belden's .050" pitch, color-coded PVC flat cable allows for quick identification and circuit tracing, along with easy breakouts for circuit routing, and is designed for mass-termination with standard IDC connectors.

Physical Characteristics (Overall) Conductor AWG: # Conductors AWG Stranding Conductor Material 28 7x36 TC - Tinned Copper **Total Number of Conductors:** 10 **Conductor Spacing Center to Center:** .050 Insulation Insulation Material: Insulation Material Wall Thickness (mm) PVC - Polyvinyl Chloride 0.254 Insulation Resistance: >10,000 Mega Ohms Insulation Color Code Chart: Number Color Brown Red Orange Yellow Green Blue Purple Gray White 10 Black **Outer Shield Outer Shield Material: Outer Shield Material** Unshielded **Outer Jacket Outer Jacket Material: Outer Jacket Material** Clear PVC **Overall Cable Overall Nominal Thickness:** .036 **Overall Nominal Width:** .50 **Mechanical Characteristics (Overall) Operating Temperature Range:** -20°C To +105°C **Bulk Cable Weight:** 17.858 Kg/Km Min. Bend Radius/Minor Axis: 12.700 mm Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs UL Rating:** AWM 20932 EU Directive 2011/65/EU (ROHS II): Yes

Yes

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| 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 |
| lame Test | |
| UL Flame Test: | VW-1 |
| Plenum/Non-Plenum | |
| Plenum (Y/N): | No |
| | |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Description | Impedance (Ohm) | | |
|-------------|-----------------|--|--|
| (GS) | 150 | | |
| (GSG) | 105 | | |

Nom. Inductance:

| Description | Inductance (µH/m) | | |
|---------------|-------------------|--|--|
| @ 1 MHz (GS) | 0.95149 | | |
| @ 1 MHz (GSG) | 0.6562 | | |

Nom. Capacitance Conductor to Conductor:

| Description | Capacitance (pF/m) |
|---------------|--------------------|
| @ 1 kHz (GSG) | 59.058 |
| @ 1 MHz (GS) | 32.81 |
| @ 1 MHz (GSG) | 49.215 |

Nominal Velocity of Propagation:

| Description | VP (%) |
|-------------|--------|
| | 72 |

Nominal Delay:

Delay (ns/m) 1.40 NS/FT. (GSG)

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|-------------------------|
| 68.2 OHMS/1000 FT. MAX. |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 10 | 9.1868 |
| 20 | 15.7488 |
| 30 | 21.3265 |
| 40 | 27.2323 |
| 50 | 32.1538 |
| 60 | 39.372 |
| 70 | 42.653 |
| 80 | 45.934 |
| 90 | 51.8398 |
| 100 | 55.777 |

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

| Current |
|----------------------------|
| 1 Amp per conductor @ 20°C |

Dielectric Withstand Voltage:

2,000 V RMS

Typical Unbalanced Crosstalk:

| Description | Pulse Rise Time (NS) (MHz) | Near End % (MHz) | Far End % (MHz) |
|----------------------|----------------------------|------------------|-----------------|
| 10 ft. sample length | 3 | 4.8 | 7 |
| 10 ft. sample length | 5 | 3.5 | 4.7 |
| 10 ft. sample length | 7 | 3 | 3 |

Notes (Overall)

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Notes: GS=Ground-Signal Mode; GSG=Ground-Signal-Ground Mode

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|--------|-------------|-------|-------|--------------------|
| 9R28010 000100 | 100 FT | 6.600 LB | NONE | | 10 #28 PVC RAINBOW |

Revision Number: 3 Revision Date: 10-02-2012

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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