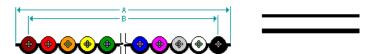
Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9R28010 Flat - Rainbow 9R280XX Series



For more Information please call

1-800-Belden1



General Description:

EU Directive 2011/65/EU (ROHS II):

EU Directive 2000/53/EC (ELV):

EU CE Mark:

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

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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