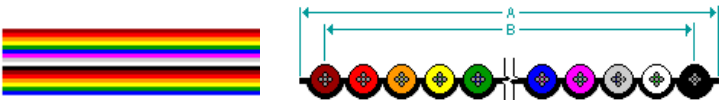



9R28010 Flat - Rainbow 9R280XX Series

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

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:

CONDUCTOR:

Number of Conductors	10
Total Number of Conductors	10
AWG	28
Stranding	7x36
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PVC - Polyvinyl Chloride
Nom. Insulation Wall Thickness	.010 in.
Insulation Resistance	>10, 000 Mega Ohms

Insulation Color Code Chart :

Number	Color	Number	Color
1	Brown	6	Blue
2	Red	7	Purple
3	Orange	8	Gray
4	Yellow	9	White
5	Green	10	Black

INSULATION:

Substrate Thickness and Material	.010" Clear PVC
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SPACING:

Conductor Spacing Center to Center	.050 +/- .005 in.
Conductor Spacing Outside Center to Outside Center	.45 +/- .007 in.

OVERALL:

Overall Nominal Width	.50 in.
Overall Nominal Thickness	.042 +/- .003 in.



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OUTER SHIELD:

Outer Shield Material	Unshielded
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +105°C
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APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

UL AWM Style	2884
UL Rating	105°C, 300 V RMS, VW-1
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005

FLAME TEST:

UL Flame Test	VW-1
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance :

Description	Nom. Characteristic Impedance (Ohms)
(GS)	150
(GSG)	105

Nom. Inductance :

Description	Nominal Inductance (μH/ft)
@ 1 MHz (GS)	.29
@ 1 MHz (GSG)	.20

Nom. Capacitance Conductor to Conductor :

Description	Nom. Capacitance Conductor to Conductor (pF/ft)
@ 1 kHz (GSG)	18
@ 1 MHz (GS)	10
@ 1 MHz (GSG)	15

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
	72

Nominal Delay	1.40 NS/FT. (GSG) ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	68.2 OHMS/1000 FT. MAX. Ohms/1000 ft
Nom. Attenuation :	



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Description	Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	10	2.8
	20	4.8
	30	6.5
	40	8.3
	50	9.8
	60	12
	70	13
	80	14
	90	15.8
	100	17

Typical Unbalanced Crosstalk :

Description	Pulse Rise Time (NS)	Near End (%)	Far End (%)	Typical Unbalanced Crosstalk (dB)
10 ft. sample length	3	4.8	7	
10 ft. sample length	5	3.5	4.7	
10 ft. sample length	7	3	3	

Max. Operating Voltage - UL 300 V RMS

Max. Recommended Current 1 Amp per conductor @ 20°C

Dielectric Withstand Voltage 2, 000 V RMS

NOTES:

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

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9R28010 000100	10 #28 PVC RAINBOW	100	1.9	NONE	

Revision Number: 1 Revision Date: 10-11-2005



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