

9R28026 Flat - Rainbow 9R280XX Series



For more Information
 please call
 1-800-Belden1



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 (Overall):

Conductor:

AWG

# Conductors	AWG	Stranding	Conductor Material
26	28	7x36	TC - Tinned Copper

Conductor Spacing Center to Center .050 +/- .005

Conductor Spacing Outside Center to Outside Center 1.25 +/- .011

Insulation:

Insulation Material

Ins Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.010

Substrate Thickness and Material .010" Clear PVC

Insulation Resistance >10,000 Mega Ohms

Insulation Color Code Chart

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

Outer Shield:

Outer Shield Material

Outer Shield Material
Unshielded

Overall Cabling:

Overall Nominal Thickness .042 +/- .003

Overall Nominal Width 1.30

Mechanical Characteristics (Overall):

Operating Temperature Range -20°C To +105°C

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

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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
Plenum/Non-Plenum:	
Plenum (Y/N)	N

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Description	Impedance (Ohm)
(GS)	150.000
(GSG)	105.000

Nom. Inductance

Description	Inductance (μH/ft)
@ 1 MHz (GS)	0.290
@ 1 MHz (GSG)	0.200

Nom. Capacitance Conductor to Conductor

Description	Capacitance (pF/ft)
@ 1 kHz (GSG)	18.000
@ 1 MHz (GS)	10.000
@ 1 MHz (GSG)	15.000

Nominal Velocity of Propagation

Description	VP (%)
	72

Nominal Delay

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

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
68.2 OHMS/1000 FT. MAX.

Nom. Attenuation

Description	Freq. (MHz)	Attenuation (dB/100 ft.)
	10.000	2.800
	20.000	4.800
	30.000	6.500
	40.000	8.300
	50.000	9.800
	60.000	12.000
	70.000	13.000
	80.000	14.000
	90.000	15.800
	100.000	17.000

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
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Typical Unbalanced Crosstalk

Description	Pulse Rise Time (NS) (MHz)	Near End % (MHz)	Far End % (MHz)	Crosstalk (dB)
10 ft. sample length	3.000	4.800	7.000	
10 ft. sample length	5.000	3.500	4.700	
10 ft. sample length	7.000	3.000	3.000	

Notes (Overall):

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

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
9R28026 000100	100 FT	2.900 LB	NONE		26 #28 PVC RAINBOW NONE

Notes:

Revision Number: 1 Revision Date: 05-14-2007

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