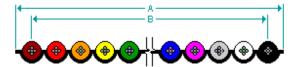
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9R28014 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
14	28	7x36	TC - Tinned Copper

Total Number of Conductors: 14

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

Conductor Spacing Outside Center to Outside .65 +/- .006

Center:

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.005

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

Outer Jacket

Outer Jacket Material:

Outer Jacket Material Clear PVC

Overall Cable

Overall Nominal Thickness: .036 +/- .002

Overall Nominal Width: .70

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Detailed Specifications & Technical Data





9R28014 Flat - Rainbow 9R280XX Series

Me	Mechanical Characteristics (Overall)			
	Operating Temperature Range:	-20°C To +105°C		
	Bulk Cable Weight:	19 lbs/1000 ft.		
Ap	plicable Specifications and Agency Con	npliance (Overall)		
Ap	oplicable Standards & Environmental Progra	ms		
	UL Rating:	AWM 20932, 105°C, 300 V RMS, VW-1		
	EU CE Mark:	Yes		
	EU Directive 2000/53/EC (ELV):	Yes		
	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		

Flame 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/ft)
(,	.29
@ 1 MHz (GSG)	.20

Nom. Capacitance Conductor to Conductor:

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

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:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	2.8
20	4.8
30	6.5
40	8.3
50	9.8

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Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9R28014 Flat - Rainbow 9R280XX Series

60	12	
70	13	
80	14	
90	15.8	
100	17	

Max. Operating Voltage - UL:

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)

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9R28014 000100	100 FT	1.700 LB	NONE		14 #28 PVC RAINBOW

Revision Number: 2 Revision Date: 09-11-2009

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