Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9R28016 Flat - Rainbow 9R280XX Series

For more Information please call

1-800-Belden1



General 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.

ysical Characte	eristics (O	verall)				
nductor						
AWG:		a Conductor Material				
16 28		g Conductor Material TC - Tinned Copper				
Total Number of Conductors:			16			
Conductor Spacing Center to Center:			.050			
sulation						
nsulation Material:	-1 \4/-11					
Insulation Materia PVC - Polyvinyl Ch		Thickness (in.)				
F VC - F Olyvillyi Ci						
Insulation Resista	nce:		>10,000 Mega Ohms			
nsulation Color Cod	le Chart:					
Number	Color					
1	Brown					
2	Red					
3	Orange					
4	Yellow					
5	Green					
6 7	Blue					
8	Purple					
9	Gray White					
10	Black					
Over 10 conductor		required				
Iter Shield Outer Shield Materia Outer Shield Materia Unshielded						
i <mark>ter Jacket</mark> Outer Jacket Materia	al:					
Outer Jacket Mate						
Clear PVC						
erall Cable			<u></u>			
Overall Nominal T			.036			
Overall Nominal V	Vidth:		.80			
chanical Chara	cteristics	(Overall)				
Operating Temperature Range:		:	-20°C To +105°C			
Bulk Cable Weight:			19 lbs/1000 ft.			
			0.500 in.			
Min. Bend Radius	/Minor Axis:					
		nd Agency Compliance	(Overall)			
plicable Specifi	ications a	nd Agency Compliance onmental Programs	(Overall)			
plicable Specifi	ications a		(Overall) AWM 20932			
plicable Specifi	ications a ds & Enviro	onmental Programs				

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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)	
@ 1 MHz (GS) .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	
60 12	
70 13	
80 14	
90 15.8	
100 17	
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:	
	Near End % (MHz) Far End % (MHz)
	4.8 7
10 th comple length E	3.5 4.7

4.7

3

3.5

3

10 ft. sample length 5

10 ft. sample length 7

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Notes (Overall)

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9R28016 000100	100 FT	2.100 LB	NONE		16 #28 PVC RAINBOW

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

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