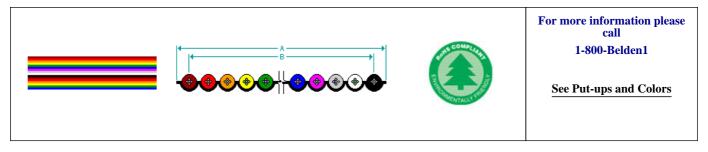


BELDENCable^{**}

9R28016 Flat - Rainbow 9R280XX Series



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	16	
Total Number of Conductors	16	
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	7	Purple
2	Red	8	Gray
3	Orange	9	White
4	Yellow	10	Black
5	Green	Over 10 conductors	Repeat as required
6	Blue		

INSULATION:

Substrate Thickness and Material

SPACING:	
Conductor Spacing Center to Center	.050 +/005 in.
Conductor Spacing Outside Center to Outside Center	.75 +/011 in.

.010" Clear PVC

OVERALL:

Overall Nominal Width	.80 in.
Overall Nominal Thickness	.042 +/003 in.



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OUTER SHIELD:

Outer Shield Material Unshielded

MECHANICAL CHARACTERISTICS:

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

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

PLENUM/NON-PLENUM:

Plenum (Y/N)

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
9R28016 000100	16 #28 PVC RAINBOW	100	2.7	NONE	Е

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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

Detailed Specifications & Technical Data



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9R28016 Flat - Rainbow 9R280XX Series

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