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1-800-Belden1



## General Description:

Belden's .050" pitch gray ribbon cable was designed for general purpose electronic interconnect applications. The cable provides reliable mass-termination to standard IDC connectors.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

# Conductors	AWG	Stranding	Conductor Material
9	28	7x36	TC - Tinned Copper

<b>Total Number of Conductors:</b>	9
<b>Conductor Spacing Center to Center:</b>	.050 +/- .002
<b>Conductor Spacing Outside Center to Outside Center:</b>	.40 +/- .008

### Insulation

**Insulation Material:**

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.254

<b>Insulation Resistance:</b>	>10,000 Megaohms
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### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

### Overall Cable

<b>Overall Nominal Thickness:</b>	.035 +/- .003
<b>Overall Nominal Width:</b>	.45 +/- .006

## Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-40°C To +105°C
<b>Bulk Cable Weight:</b>	14.882 Kg/Km

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

<b>UL Rating:</b>	105°C, 300 V RMS, VW-1
<b>CSA Rating:</b>	105°C, 300 V RMS, FT1
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	07/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	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

CSA Flame Test: FT1

### Plenum/Non-Plenum

Plenum (Y/N): No

### Surface Printing (Overall)

Surface Printing: BELDEN-T 28 AWG CSA AWM I A 105°C 300 V FT1 LL7874 (UL LOGO)  
AWM STYLE 2651 VW-1 E12683

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Description	Impedance (Ohm)
(GS)	150
(GSG)	105

#### Nom. Inductance:

Description	Inductance (µH/m)
@ 1 MHz (GS)	0.95149
@ 1 MHz (GSG)	0.6562

#### Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/m)
@ 1 kHz (GSG)	59.058
@ 1 MHz (GS)	32.81
@ 1 MHz (GSG)	49.215

#### Nominal Velocity of Propagation:

Description	VP (%)
	72

#### Nominal Delay:

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

#### Nom. Conductor DC Resistance:

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

#### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
10	9.1868
20	15.7488
30	21.3265
40	27.2323
50	32.1538
60	39.372
70	42.653
80	45.934
90	51.8398
100	55.777

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

#### Max. Recommended Current:

Current
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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:** GSG=Ground-Signal-Ground Mode

**Polarity Identification (Overall)**

**Polarity Identification:** RED POLARITY STRIPE ON #1 CONDUCTOR

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9L28009 008H100	100 FT	1.100 LB	GRAY		9 #28 STR PVC RIBBON (SMI 80)
9L28009 008H300	300 FT	4.200 LB	GRAY		9 #28 STR PVC RIBBON

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