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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
26	26	7x34	TC - Tinned Copper

Total Number of Conductors: 26

Conductor Spacing Center to Center: .050

### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.010

Insulation Resistance: >10,000 Megaohms

### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

### Overall Cable

Overall Nominal Thickness: .039

Overall Nominal Width: 1.30

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +105°C

Bulk Cable Weight: 43 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 0.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

UL Rating: 105°C, 300 V RMS, VW-1

CSA Specification: AWM I A

EU Directive 2011/65/EU (ROHS II): Yes

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): 07/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL 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)

## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

Description	Impedance (Ohm)
(GS)	135
(GSG)	90

**Nom. Inductance:**

Description	Inductance (µH/ft)
@ 1 MHz (GS)	.23
@ 1 MHz (GSG)	.15

**Nom. Capacitance Conductor to Conductor:**

Description	Capacitance (pF/ft)
@ 1 kHz (GSG)	23
@ 1 MHz (GS)	11
@ 1 MHz (GSG)	18

**Nominal Velocity of Propagation:**

Description	VP (%)
	67.6

**Nominal Delay:**

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

**Nom. Conductor DC Resistance:**

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

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
10	3.9
20	6.4
30	8.7
40	13
50	16.9
60	20.1
70	22.5
80	23.9
90	25.1
100	26.4

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Max. Recommended Current:**

Current
1.5 Amps 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	5.2	6.2
10 ft. sample length	5	4.2	5
10 ft. sample length	7	3.3	3.8

## Notes (Overall)

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

## Polarity Identification (Overall)

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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9L26026 008H100	100 FT	4.400 LB	GRAY		26 #26 STR PVC RIBBON

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