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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
16	26	7x34	TC - Tinned Copper

Total Number of Conductors: 16

Conductor Spacing Center to Center: .050

### Insulation

#### Insulation Material:

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

Insulation Resistance: >10,000 Megaohms

### Outer Shield

#### Outer Shield Material:

Outer Shield Material
Unshielded

### Overall Cable

Overall Nominal Thickness: .039

Overall Nominal Width: .800

## Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 37.205 Kg/Km

Min. Bend Radius/Minor Axis: 12.700 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

UL Rating: 105°C, 300 V RMS, VW-1

CSA Specification: AWM I A

CSA Rating: AWM 2651

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)

Surface Printing: BELDEN-T 26 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)	135
(GSG)	90

#### Nom. Inductance:

Description	Inductance (µH/m)
@ 1 MHz (GS)	0.75463
@ 1 MHz (GSG)	0.49215

#### Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/m)
@ 1 kHz (GSG)	75.463
@ 1 MHz (GS)	36.091
@ 1 MHz (GSG)	59.058

#### Nominal Velocity of Propagation:

Description	VP (%)
	67.6

#### Nominal Delay:

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

#### Nom. Conductor DC Resistance:

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

#### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
10	12.7959
20	20.9984
30	28.5447
40	42.653
50	55.4489
60	65.9481
70	73.8225
80	78.4159
90	82.3531
100	86.6184

#### 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
9L26016 008H100	100 FT	2.800 LB	GRAY		16 #26 STR PVC RIBBON

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