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please call

1-800-Belden1



## 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 |
|--------------|-----|-----------|--------------------|
| 34           | 26  | 7x34      | TC - Tinned Copper |

Total Number of Conductors: 34

Conductor Spacing Center to Center: .050 +/- .002

Conductor Spacing Outside Center to Outside Center: 1.65 +/- .008

### 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: .038 +/- .002

Overall Nominal Width: 1.70 +/- .008

## Mechanical Characteristics (Overall)

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

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

UL AWM Style: 2651

UL Rating: 105°C, 300 V RMS, VW-1

CSA Specification: AWM I A 105°C 300 V FT1

CSA Rating: 105°C, 300 V RMS, FT1

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 |
|-----------------------------------|-----|

|                             |     |
|-----------------------------|-----|
| 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)

## 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             |
|-----------------|--------|-------------|-------|-------|-----------------------|
| 9L26034 008H100 | 100 FT | 5.900 LB    | GRAY  |       | 34 #26 STR PVC RIBBON |

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