



For more Information  
please call

1-800-Belden1



### General Description:

Belden's 1.00mm pitch gray ribbon cable was designed for the disk drive market where the 2.00mm IDC connector is widely used.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 26           | 28  | 7x36      | TC - Tinned Copper |

Total Number of Conductors: 26

Conductor Spacing Center to Center: .039 +/- .003

Conductor Spacing Outside Center to Outside Center: .984 +/- .008

#### 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: .035 +/- .003

Overall Nominal Width: 1.020

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 44.646 Kg/Km

Min. Bend Radius/Minor Axis: 12.700 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

UL Rating: AWM Style 2651

CSA Rating: 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)**

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)        | 130             |
| (GSG)       | 90              |

**Nom. Inductance:**

| Description   | Inductance (µH/m) |
|---------------|-------------------|
| @ 1 MHz (GS)  | 0.78744           |
| @ 1 MHz (GSG) | 0.52496           |

**Nom. Capacitance Conductor to Conductor:**

| Description   | Capacitance (pF/m) |
|---------------|--------------------|
| @ 1 kHz (GSG) | 65.62              |
| @ 1 MHz (GS)  | 31.1695            |
| @ 1 MHz (GSG) | 54.1365            |

**Nominal Velocity of Propagation:**

| Description | VP (%) |
|-------------|--------|
|             | 69     |

**Nominal Delay:**

| Delay (ns/m)      |
|-------------------|
| 1.47 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          | 10.8273               |
| 20          | 16.7331               |
| 30          | 22.967                |
| 40          | 27.2323               |
| 50          | 32.1538               |
| 60          | 38.0596               |
| 70          | 42.9811               |
| 80          | 46.5902               |
| 90          | 53.8084               |
| 100         | 57.7456               |

**Max. Operating Voltage - UL:**

| Voltage   |
|-----------|
| 300 V RMS |

**Max. Recommended Current:**

| Current                    |
|----------------------------|
| 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                          | 4.3              | 6.7             |
| 10 ft. sample length | 5                          | 3.8              | 3.4             |
| 10 ft. sample length | 7                          | 3.6              | 2.5             |

**Notes (Overall)**

Notes: GSG=Ground-Signal-Ground Mode

**Polarity Identification (Overall)**

Polarity Identification: BLACK POLARITY STRIPE ON #1 CONDUCTOR

**Put Ups and Colors:**

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

## METRIC MEASUREMENT VERSION

### 2L28026 Flat - Gray Ribbon 2L280XX Series

|                 |        |          |      |                       |
|-----------------|--------|----------|------|-----------------------|
| 2L28026 008H100 | 100 FT | 3.100 LB | GRAY | 26 #28 STR PVC RIBBON |
|-----------------|--------|----------|------|-----------------------|

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