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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 |
|--------------|-----|-----------|--------------------|
| 64           | 28  | 7x36      | TC - Tinned Copper |

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

Conductor Spacing Outside Center to Outside Center: 3.15 +/- .012

#### 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 Cabling

Overall Nominal Thickness: .035 +/- .003

Overall Nominal Width: 3.20 +/- .012

### 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                     |

## 9L28064 Flat - Gray Ribbon 9L280XX Series

|                                   |     |
|-----------------------------------|-----|
| 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)        | 150             |
| (GSG)       | 105             |

**Nom. Inductance:**

| Description   | Inductance (µH/ft) |
|---------------|--------------------|
| @ 1 MHz (GS)  | .29                |
| @ 1 MHz (GSG) | .20                |

**Nom. Capacitance Conductor to Conductor:**

| Description   | Capacitance (pF/ft) |
|---------------|---------------------|
| @ 1 kHz (GSG) | 18                  |
| @ 1 MHz (GS)  | 10                  |
| @ 1 MHz (GSG) | 15                  |

**Nominal Velocity of Propagation:**

| Description | VP (%) |
|-------------|--------|
|             | 72     |

**Nominal Delay:**

| Delay (ns/ft)     |
|-------------------|
| 1.40 NS/FT. (GSG) |

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 68.2 OHMS/1000 FT. MAX.  |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 10          | 2.8                      |
| 20          | 4.8                      |
| 30          | 6.5                      |
| 40          | 8.3                      |
| 50          | 9.8                      |
| 60          | 12                       |
| 70          | 13                       |
| 80          | 14                       |
| 90          | 15.8                     |
| 100         | 17                       |

**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:**

## 9L28064 Flat - Gray Ribbon 9L280XX Series

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

**Polarity Identification (Overall)**

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

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #          | Putup  | Ship Weight | Color | Notes | Item Desc             |
|-----------------|--------|-------------|-------|-------|-----------------------|
| 9L28064 008H100 | 100 FT | 7.400 LB    | GRAY  |       | 64 #28 STR PVC RIBBON |

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