



Product: [9L28026](#)

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, #28-26c, PVC Ins

Product Description

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, 26 Conductor, 28 AWG (7x36) Tinned Copper, PVC Insulation

Technical Specifications

Product Overview

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Internal interconnection, internal wiring of electronic equipment, reliable mass-termination to standard IDC connectors |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material |
|-----|-----------|--------------------|
| 28 | 7x36 | TC - Tinned Copper |

| | |
|------------------|----|
| Conductor Count: | 26 |
|------------------|----|

Insulation

| Material | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.010 in |

Color Chart

| Color |
|-------|
| Gray |

| | |
|--------------|--------------------------------|
| Table Notes: | First Conductor has Red Stripe |
|--------------|--------------------------------|

Construction and Dimensions

| | |
|------------------------------------------|-------------------|
| Conductor Spacing Center-Center: | .050 +/- .002 in |
| Conductor Spacing Center-Center Outside: | 1.250 +/- .008 in |
| OuterJacket1, Nominal Width: | 1.300 +/- .008 in |
| OuterJacket1, Nom Thick Flat Section: | 0.035 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 68.2 Ohm/1000ft |

Capacitance

| Element | Nom. Capacitance Conductor to Conductor |
|---------------|-----------------------------------------|
| @ 1 kHz (GSG) | 18 pF/ft |
| @ 1 MHz (GS) | 10 pF/ft |
| @ 1 MHz (GSG) | 15 pF/ft |

| | |
|----------------------------|-------------|
| Min Insulation Resistance: | 10,000 MOhm |
|----------------------------|-------------|

Inductance

| Element | Nominal Inductance |
|--------------|--------------------|
| @ 1 MHz (GS) | 0.29 µH/ft |

| | |
|---------------|-----------|
| @ 1 MHz (GSG) | 0.2 µH/ft |
|---------------|-----------|

Impedance

| Nominal Characteristic Impedance | Nominal Characteristic Impedance Description |
|----------------------------------|----------------------------------------------|
| 150 Ohm | (GS) |
| 105 Ohm | (GSG) |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 10 MHz | 2.8 dB/100ft |
| 20 MHz | 4.8 dB/100ft |
| 30 MHz | 6.5 dB/100ft |
| 40 MHz | 8.3 dB/100ft |
| 50 MHz | 9.8 dB/100ft |
| 60 MHz | 12 dB/100ft |
| 70 MHz | 13 dB/100ft |
| 80 MHz | 14 dB/100ft |
| 90 MHz | 15.8 dB/100ft |
| 100 MHz | 17 dB/100ft |

| | |
|--------------|------------------------------------------------------|
| Table Notes: | GS=Ground-Signal Mode; GSG=Ground-Signal-Ground Mode |
|--------------|------------------------------------------------------|

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.4 ns/ft | 72% |

Unbalanced Crosstalk

| Element | Typical Unbalanced NEXT % | Typical Unbalanced FEXT % | Typical Cross Talk Pulse Rise Time (ns) |
|----------------------|---------------------------|---------------------------|-----------------------------------------|
| 10 ft. sample length | 4.8 | 7 | 3 ns |
| 10 ft. sample length | 3.5 | 4.7 | 5 ns |
| 10 ft. sample length | 3 | 3 | 7 ns |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 1 Amp per Conductor at 20°C |

Voltage

| Dielectric Withstand Voltage | UL Voltage Rating |
|------------------------------|-------------------|
| 2000 V | 300 V |

Temperature Range

| | |
|------------------------------|-----------------|
| Operating Temperature Range: | -40°C to +105°C |
|------------------------------|-----------------|

Mechanical Characteristics

| | |
|--------------------|---------------|
| Bulk Cable Weight: | 30 lbs/1000ft |
|--------------------|---------------|

Standards

| | |
|--------------------------|----------|
| UL AWM Style Compliance: | AWM 2651 |
| CSA AWM Compliance: | I A |

Applicable Environmental and Other Programs

| | |
|----------------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| CA Prop 65 (CJ for Wire and Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|-------|
| UL Flammability: | VW-1 |
| UL voltage rating: | 300 V |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers

Variants

| Item # | Color | Length | UPC |
|-----------------|-------|--------|--------------|
| 9L28026 008H100 | Gray | 100 ft | 612825221678 |

History

| | |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.389 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

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