

Product: [9L28326](#) 



Shielded Flat Gray Ribbon Cable .050" Pitch, 9L283XX Series, #28-26c, PVC Ins, O/A Foil Tape, PVC Jacket

Product Description

Shielded Flat Gray Ribbon Cable .050" Pitch, 9L283XX Series, 26 Conductor, 28 AWG (7x36) Tinned Copper, PVC Insulation, Beldfoil® Tape, PVC Jacket

Technical Specifications

Product Overview

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

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

Outer Shield Material

| Type | Material                | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%         | TC - Tinned Copper | 28            | 7x36                         |

Outer Jacket Material

| Material                 | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.038 in               |

Construction and Dimensions

|                                       |                   |
|---------------------------------------|-------------------|
| Cond Spacing Center-Center:           | .050 +/- .002 in  |
| Cond Spacing Center-Center Outside:   | 1.250 +/- .008 in |
| OuterJacket1, Nominal Width:          | 1.370 in          |
| OuterJacket1, Nom Thick Flat Section: | 0.115 in          |

Electrical Characteristics

Conductor DCR

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

Capacitance

| Element | Nom. Capacitance Conductor to Conductor |
|---------|-----------------------------------------|
|---------|-----------------------------------------|

|                                    |          |
|------------------------------------|----------|
| @ 1 kHz (GSG) with shield grounded | 70 pF/ft |
| @ 1 MHz (GSG) with shield grounded | 50 pF/ft |

Inductance

| Element                            | Nominal Inductance |
|------------------------------------|--------------------|
| @ 1 MHz (GSG) with shield grounded | 0.11 µH/ft         |

Impedance

| Nominal Balanced Characteristic Impedance Description | Nominal Characteristic Impedance | Nominal Characteristic Impedance Description |
|-------------------------------------------------------|----------------------------------|----------------------------------------------|
| (GSG) with shield grounded                            | 45 Ohm                           | (GSG) with shield grounded                   |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 10 MHz          | 6 dB/100ft          |
| 20 MHz          | 9.5 dB/100ft        |
| 30 MHz          | 12.5 dB/100ft       |
| 40 MHz          | 14.9 dB/100ft       |
| 50 MHz          | 17.2 dB/100ft       |
| 60 MHz          | 19 dB/100ft         |
| 70 MHz          | 21.5 dB/100ft       |
| 80 MHz          | 23 dB/100ft         |
| 90 MHz          | 24.5 dB/100ft       |
| 100 MHz         | 26 dB/100ft         |

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

Delay

| Nominal Delay |
|---------------|
| 1.7 ns/ft     |

Unbalanced Crosstalk

| Element                                              | Typical Unbalanced NEXT % | Typical Unbalanced FEXT % | Typical Cross Talk Pulse Rise Time (ns) |
|------------------------------------------------------|---------------------------|---------------------------|-----------------------------------------|
| 10 ft. sample length with ground connected to shield | 1.5                       | 2                         | 3 ns                                    |
| 10 ft. sample length with ground connected to shield | 0.9                       | 1.5                       | 5 ns                                    |
| 10 ft. sample length with ground connected to shield | 0.7                       | 1.2                       | 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 Temp Range: | -20°C to +105°C |
|-----------------------|-----------------|

Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 97 lbs/1000ft |
| Min Bend Radius/Minor Axis: | 1.25 in       |

Standards

|                          |       |
|--------------------------|-------|
| UL AWM Style Compliance: | 20081 |
| CSA AWM Compliance:      | II A  |

Applicable Environmental and Other Programs

|                                       |            |
|---------------------------------------|------------|
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2011/65/EU (ROHS II):    | Yes        |
| EU Directive 2012/19/EU (WEEE):       | Yes        |
| EU Directive 2015/863/EU:             | Yes        |
| EU Directive Compliance:              | Yes        |
| EU CE Mark:                           | Yes        |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-01 |

|                             |     |
|-----------------------------|-----|
| MII Order #39 (China RoHS): | Yes |
|-----------------------------|-----|

Suitability

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

Flammability, LS0H, Toxicity Testing

|                    |       |
|--------------------|-------|
| UL Flammability:   | VW-1  |
| CSA Flammability:  | FT1   |
| UL voltage rating: | 300 V |

Plenum/Non-Plenum

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

Part Number

Variants

| Item #         | Color | Putup Type | Length | UPC          |
|----------------|-------|------------|--------|--------------|
| 9L28326 010100 | Black | Reel       | 100 ft | 612825221760 |

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Footnote: | E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'. |
|-----------|----------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.284 Revision Date: 08-25-2020 |
|----------------------|--------------------------------------------------|

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