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please call

1-800-Belden1



## General Description:

The shielded jacketed 9L283XX series provides shielding from external electrical interference and allows for greater flexibility, ease of termination, while providing exterior protection from the environment.

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 10           | 28  | 7x36      | TC - Tinned Copper |

Total Number of Conductors: 10

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

Conductor Spacing Outside Center to Outside Center: .45 +/- .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 Trade Name | Type | Outer Shield Material                       | Coverage (%) |
|-------------------------|------|---|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape (Foil Side In) | 100.000      |

Outer Shield Drain Wire AWG:

| AWG  | Stranding | Drain Wire Conductor Material |
|------|-----------|-------------------------------|
| 2-28 | 7x36      | TC - Tinned Copper            |

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .038                      |

### Overall Cable

Overall Nominal Thickness: .115 +/- .015

Overall Nominal Width: .570 +/- .035

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +105°C

Bulk Cable Weight: 47 lbs/1000 ft.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

UL Rating: UL AWM Style 2651, 20081

CSA Specification: AWM II A 105°C 300 V

CSA Rating: 105°C, 300 V RMS, FT1

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): 10/01/2005

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)**

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

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

**Nom. Inductance:**

| Description                        | Inductance (µH/ft) |
|------------------------------------|--------------------|
| @ 1 MHz (GSG) with shield grounded | .11                |

**Nom. Capacitance Conductor to Conductor:**

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

**Nominal Velocity of Propagation:**

| Description | VP (%) |
|-------------|--------|
|             | 60     |

**Nominal Delay:**

| Delay (ns/ft)                         |
|---------------------------------------|
| 1.7 NS/FT. (GSG) with shield grounded |

**Nom. Conductor DC Resistance:**

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

**Nom. Attenuation:**

| Description                | Freq. (MHz) | Attenuation (dB/100 ft.) |
|----------------------------|-------------|--------------------------|
| (GSG) with shield grounded | 10          | 6                        |
| (GSG) with shield grounded | 20          | 9.5                      |
| (GSG) with shield grounded | 30          | 12.5                     |
| (GSG) with shield grounded | 40          | 14.9                     |
| (GSG) with shield grounded | 50          | 17.2                     |
| (GSG) with shield grounded | 60          | 19                       |
| (GSG) with shield grounded | 70          | 21.5                     |
| (GSG) with shield grounded | 80          | 23                       |
| (GSG) with shield grounded | 90          | 24.5                     |
| (GSG) with shield grounded | 100         | 26                       |

**Max. Operating Voltage - UL:**

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

**Max. Recommended Current:**

| Current                    |
|----------------------------|
| 1 Amp per conductor @ 20°C |

**Typical Unbalanced Crosstalk:**

| Description  | Pulse Rise Time (NS) (MHz) | Near End % (MHz) | Far End % (MHz) |
|--|----------------------------|------------------|-----------------|
| 10 ft. sample length with ground connected to shield | 3                          | 1.5              | 2               |
| 10 ft. sample length with ground connected to shield | 5                          | .9               | 1.5             |
| 10 ft. sample length with ground connected to shield | 7                          | .7               | 1.2             |

**Notes (Overall)**

Notes: GSG=Ground-Signal-Ground Mode

**Polarity Identification (Overall)**

Polarity Identification: RED POLARITY STRIPE ON #1 CONDUCTOR

**Put Ups and Colors:**

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

## ENGLISH MEASUREMENT VERSION

### 9L28310 Flat - Shielded Jacketed 9L283XX Series

|                |        |          |       |   |                          |
|----------------|--------|----------|-------|---|--------------------------|
| 9L28310 010100 | 100 FT | 5.200 LB | BLACK | E | 10 #28 PVC FS PVC RIBBON |
|----------------|--------|----------|-------|---|--------------------------|

**Notes:**

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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