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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'

Revision Number: 3 Revision Date: 11-08-2012

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9