

## 9735 Multi-Conductor - Multi-Pair Snake Cable

For more Information  
please call

1-800-Belden1



### General Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 24 AWG stranded TC drain wire, overall PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 15      | 24  | 7x32      | TC - Tinned Copper | .024       |

Total Number of Conductors: 30

#### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material     | Wall Thickness (in.) |
|-----------------------|-------------------------|----------------------|
| Datalene®             | FPE - Foam Polyethylene | 0.019                |

#### Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® (Z-Fold®)     | Tape | Aluminum Foil-Polyester Tape | 100          |

Inner Shield Drain Wire AWG:

|     |    |
|-----|----|
| AWG | 24 |
|-----|----|

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.065                     |

#### Overall Cable

Overall Nominal Diameter: 0.639 in.

#### Pair

Pair Color Code Chart:

| Number | Color          |
|--------|----------------|
| 1      | Black & Red    |
| 2      | Black & White  |
| 3      | Black & Green  |
| 4      | Black & Blue   |
| 5      | Black & Yellow |
| 6      | Black & Brown  |
| 7      | Black & Orange |
| 8      | Red & White    |
| 9      | Red & Green    |
| 10     | Red & Blue     |
| 11     | Red & Yellow   |
| 12     | Red & Brown    |
| 13     | Red & Orange   |
| 14     | Green & White  |
| 15     | Green & Blue   |

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 60°C (UL AWM Style 2493)

Bulk Cable Weight: 169 lbs/1000 ft.

|                                   |           |
|-----------------------------------|-----------|
| Max. Recommended Pulling Tension: | 250 lbs.  |
| Min. Bend Radius/Minor Axis:      | 6.500 in. |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                            |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification:               | CM                         |
| CEC/C(UL) Specification:              | CM                         |
| AWM Specification:                    | UL Style 2493 (300 V 60°C) |
| 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): | 01/01/2004                 |
| EU Directive 2002/96/EC (WEEE):       | Yes                        |
| EU Directive 2003/11/EC (BFR):        | Yes                        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                        |
| MII Order #39 (China RoHS):           | Yes                        |

#### Flame Test

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

##### Impedance (Ohm)

100

#### Nom. Inductance:

##### Inductance (µH/ft)

0.23

#### Nom. Capacitance Conductor to Conductor:

##### Capacitance (pF/ft)

12.5

#### Nom. Capacitance Cond. to Other Conductor & Shield:

##### Capacitance (pF/ft)

23.2

#### Nominal Velocity of Propagation:

##### VP (%)

76

#### Nom. Conductor DC Resistance:

##### DCR @ 20°C (Ohm/1000 ft)

24

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 15 Ohm/1000 ft

#### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| .384        | 0.74                     |
| .705        | 0.87                     |
| .768        | 0.88                     |
| 1.024       | 0.94                     |
| 1.411       | 1.01                     |
| 1.536       | 1.03                     |
| 2.048       | 1.13                     |
| 2.822       | 1.29                     |
| 3.072       | 1.35                     |
| 4.096       | 1.57                     |
| 5.644       | 1.78                     |
| 6.144       | 1.84                     |
| 8.192       | 2.13                     |
| 11.289      | 2.45                     |
| 12.288      | 2.57                     |

|        |      |
|--------|------|
| 24.576 | 3.57 |
|--------|------|

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

**Max. Recommended Current:**

|                               |
|-------------------------------|
| <b>Current</b>                |
| 1.9 Amps per conductor @ 25°C |

### Notes (Overall)

**Notes:** Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

### Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc              |
|--------------|----------|-------------|--------|-------|------------------------|
| 9735 0601000 | 1,000 FT | 185.000 LB  | CHROME | C     | 15 FS PR #24 FHDPE PVC |
| 9735 060500  | 500 FT   | 92.000 LB   | CHROME | C     | 15 FS PR #24 FHDPE PVC |

**Notes:**  
C = CRATE REEL PUT-UP.

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