

## 9732 Multi-Conductor - Multi-Pair Snake Cable

For more Information  
please call

1-800-Belden1



### 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.) |
|---------|-----|-----------|--------------------|------------|
| 9       | 24  | 7x32      | TC - Tinned Copper | .024       |

#### Insulation

##### Insulation Material:

| Insulation Trade Name | Insulation Material     | Dia. (in.) |
|-----------------------|-------------------------|------------|
| Datalene®             | FPE - Foam Polyethylene | .061       |

#### 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    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cable

Overall Nominal Diameter: 0.488 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    |

##### Pair Lay Length & Direction:

| Lay Length (in.) | Twists/ft. (twist/ft) |
|------------------|-----------------------|
| 1.750            | 6.850                 |

## Mechanical Characteristics (Overall)

|                                        |                          |
|----------------------------------------|--------------------------|
| Operating Temperature Range:           | -20°C To +80°C           |
| UL Temperature Rating:                 | 60°C (UL AWM Style 2493) |
| Bulk Cable Weight:                     | 122 lbs/1000 ft.         |
| Max. Recommended Pulling Tension:      | 150 lbs.                 |
| Min. Bend Radius (Install)/Minor Axis: | 5 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 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    |
| Plenum Number: | 89732 |

## 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                     |
| .7056       | 0.87                     |
| .768        | 0.88                     |
| 1.024       | 0.94                     |
| 1.4112      | 1.01                     |
| 1.536       | 1.03                     |
| 2.048       | 1.13                     |
| 2.8224      | 1.29                     |
| 3.072       | 1.35                     |
| 4.096       | 1.57                     |
| 5.6448      | 1.78                     |
| 6.144       | 1.84                     |
| 8.192       | 2.13                     |
| 11.2896     | 2.45                     |
| 12.288      | 2.57                     |
| 24.576      | 3.57                     |

**Max. Operating Voltage - UL:**

| Voltage                       |
|-------------------------------|
| 300 V RMS (UL AWM Style 2493) |

**Max. Recommended Current:**

| Current                       |
|-------------------------------|
| 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.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc             |
|--------------|----------|-------------|--------|-------|-----------------------|
| 9732 060100  | 100 FT   | 9.900 LB    | CHROME |       | 9 FS PR #24 FHDPE PVC |
| 9732 0601000 | 1,000 FT | 106.000 LB  | CHROME | C     | 9 FS PR #24 FHDPE PVC |
| 9732 060500  | 500 FT   | 57.000 LB   | CHROME | C     | 9 FS PR #24 FHDPE PVC |

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

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# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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