

**89757 Multi-Conductor - Multi-Pair Snake Cable**

For more Information  
please call

1-800-Belden1

**Description:**

24 AWG stranded (7x32) TC conductor, plenum, foam FEP insulation, twisted pairs, individually shielded w/Beldfoil (100% coverage), 24 AWG stranded TC drain wire, overall fluorocopolymer jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

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

**Insulation****Insulation Material:**

| Insulation Material                        | Dia. (in.) |
|--------------------------------------------|------------|
| FFEP - Foam Fluorinated Ethylene Propylene | .062       |

**Inner Shield****Inner Shield Material:**

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

**Inner Shield Drain Wire AWG:**

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

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

**Inner Shield Color Code Chart:**

| Number | AWG | Color |
|--------|-----|-------|
| 1      | 24  | Red   |
| 2      | 24  | Red   |
| 3      | 24  | Green |
| 4      | 24  | Blue  |
| 5      | 24  | Blue  |
| 6      | 24  | Blue  |
| 7      | 24  | Blue  |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material  |
|------------------------|
| PVDF - Fluorocopolymer |

**Overall Cable**

Overall Nominal Diameter: 0.361 in.

**Pair****Pair Color Code Chart:**

| Number | Color                       |
|--------|-----------------------------|
| 1      | White/Blue & Blue/White     |
| 2      | White/Orange & Orange/White |
| 3      | White/Green & Green/White   |
| 4      | White/Brown & Brown/White   |

|   |                         |
|---|-------------------------|
| 5 | White/Gray & Gray/White |
| 6 | Red/Blue & Blue/Red     |
| 7 | Red/Orange & Orange/Red |

### Mechanical Characteristics (Overall)

|                                        |                 |
|----------------------------------------|-----------------|
| Operating Temperature Range:           | -20°C To +150°C |
| Bulk Cable Weight:                     | 82 lbs/1000 ft. |
| Max. Recommended Pulling Tension:      | 115.500 lbs.    |
| Min. Bend Radius (Install)/Minor Axis: | 3.750 in.       |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMP        |
| CEC/C(UL) Specification:              | CMP        |
| 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): | 04/01/2005 |
| 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:    | NFPA 262 |
| C(UL) Flame Test: | FT6      |

#### Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

|                 |
|-----------------|
| Impedance (Ohm) |
| 100             |

#### Nom. Inductance:

|                    |
|--------------------|
| Inductance (µH/ft) |
| .24                |

#### Nom. Capacitance Conductor to Conductor:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 13.5                |

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

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 22.5                |

#### Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 76     |

#### Nominal Delay:

|               |
|---------------|
| Delay (ns/ft) |
| 1.3           |

#### Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|

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Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 14.400 Ohm/1000 ft

## Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| .384        | .74                      |
| .7056       | .87                      |
| .768        | .89                      |
| 1.024       | .95                      |
| 1.4112      | 1.03                     |
| 1.536       | 1.06                     |
| 2.048       | 1.17                     |
| 2.8224      | 1.37                     |
| 3.072       | 1.44                     |
| 4.096       | 1.67                     |
| 5.6448      | 1.89                     |
| 6.144       | 1.96                     |
| 8.192       | 2.26                     |
| 11.2896     | 2.59                     |
| 12.288      | 2.71                     |
| 24.576      | 3.73                     |

## Max. Operating Voltage - UL:

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

## Max. Recommended Current:

| Current                       |
|-------------------------------|
| 2.0 Amps per conductor @ 25°C |

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc            |
|---------------|----------|-------------|-------|-------|----------------------|
| 89757 0081000 | 1,000 FT | 80.000 LB   | GRAY  | C     | 7 #24 FS PR FFEP SLF |
| 89757 008500  | 500 FT   | 39.500 LB   | GRAY  | C     | 7 #24 FS PR FFEP SLF |

## Notes:

C = CRATE REEL PUT-UP.

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