

## 89730 Multi-Conductor - Multi-Pair Snake Cable

For more Information  
please call

1-800-Belden1

**General Description:**

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

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 3       | 24  | 7x32      | TC - Tinned Copper | .024       |

Total Number of Conductors: 6

**Insulation**

Insulation Material:

| Insulation Material                        | Wall Thickness (in.) |
|--------------------------------------------|----------------------|
| FFEP - Foam Fluorinated Ethylene Propylene | 0.019                |

**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: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material  | Nom. Wall Thickness (in.) |
|------------------------|---------------------------|
| PVDF - Fluorocopolymer | 0.017                     |

**Overall Cable**

Overall Nominal Diameter: 0.278 in.

**Pair**

Pair Color Code Chart:

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

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -20°C To +150°C

Bulk Cable Weight: 36 lbs/1000 ft.

Max. Recommended Pulling Tension: 33 lbs.

Min. Bend Radius/Minor Axis: 3 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

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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 &amp; Cable): Yes

MIL Order #39 (China RoHS): Yes

## Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

## Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 9730

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

100

## Nom. Inductance:

Inductance (µH/ft)

0.24

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

13.5

## Nom. Capacitance Cond. to Other Conductor &amp; 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)

24

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

## Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| .384        | 0.74                     |
| .7056       | 0.87                     |
| .768        | 0.89                     |
| 1.024       | 0.95                     |
| 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

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### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc            |
|---------------|----------|-------------|-------|-------|----------------------|
| 89730 0081000 | 1,000 FT | 40.000 LB   | GRAY  | C     | 3 SH PR #24 FFEP SLF |
| 89730 008500  | 500 FT   | 21.500 LB   | GRAY  | C     | 3 SH PR #24 FFEP SLF |

**Notes:**

C = CRATE REEL PUT-UP.

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