

9731 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.) |
|---------|-----|-----------|--------------------|------------|
| 6 | 24 | 7x32 | TC - Tinned Copper | .024 |

Total Number of Conductors: 12

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: 0.421 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 |

Pair Lay Length & Direction:

| Lay Length (in.) | Twists (twist/ft) |
|------------------|-------------------|
| 1.700 | 6.850 |

Mechanical Characteristics (Overall)

9731 Multi-Conductor - Multi-Pair Snake Cable

| | |
|-----------------------------------|--------------------------|
| Operating Temperature Range: | -20°C To +80°C |
| UL Temperature Rating: | 60°C (UL AWM Style 2493) |
| Bulk Cable Weight: | 82 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 103 lbs. |
| Min. Bend Radius/Minor Axis: | 4.500 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 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: | 89731 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

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

Nom. Inductance:

| |
|--------------------|
| Inductance (µH/ft) |
| 0.12 |

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 |

Nominal Delay:

| |
|---------------|
| Delay (ns/ft) |
| 1.39 |

Nom. Conductor DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 24 |

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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 |
|-------------------------------|
| 2.5 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 |
|--------------|----------|-------------|--------|-------|-----------------------|
| 9731 060100 | 100 FT | 9.100 LB | CHROME | C | 6 FS PR #24 FHDPE PVC |
| 9731 0601000 | 1,000 FT | 83.000 LB | CHROME | C | 6 FS PR #24 FHDPE PVC |
| 9731 060500 | 500 FT | 42.000 LB | CHROME | C | 6 FS PR #24 FHDPE PVC |

Notes:

C = CRATE REEL PUT-UP.

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