

## 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

**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/ft. (twist/ft)
1.700	6.850

**Mechanical Characteristics (Overall)**

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

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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 (Install)/Minor Axis:	4.500 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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
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## 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 &amp; 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

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

## Nom. Attenuation:

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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.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9731 060100	100 FT	7.400 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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