

## 89734 Multi-Conductor - Multi-Pair Snake Cable

For more Information  
please call

1-800-Belden1

**General 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.)
12	24	7x32	TC - Tinned Copper	.024

Total Number of Conductors:

24

**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:

Stranded

Inner Shield Drain Wire Conductor Material:

TC - Tinned Copper

Inner Shield Color Code Chart:

Number	AWG	Color
1	24	Red
2	24	Green
3	24	Blue
4	24	Blue
5	24	Blue
6	24	Blue
7	24	Blue
8	24	Blue
9	24	Blue
10	24	Blue
11	24	Blue
12	24	Blue

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVDF - Fluorocopolymer	0.019

**Overall Cable**

Overall Nominal Diameter:

0.498 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

8	Red/Green & Green/Red
9	Red/Brown & Brown/Red
10	Red/Gray & Gray/Red
11	Black/Blue & Blue/Black
12	Black/Orange & Orange/Black

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +150°C
Bulk Cable Weight:	124 lbs/1000 ft.
Max. Recommended Pulling Tension:	198 lbs.
Min. Bend Radius/Minor Axis:	5 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
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
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:	9734

**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)

24

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

**Nom. Attenuation:**

Freq. (MHz) Attenuation (dB/100 ft.)

## 89734 Multi-Conductor - Multi-Pair Snake Cable

.384	.74
.7056	.87
.768	.89
1.024	.95
1.4112	1.03
1.536	1.06
2.048	1.17
2.28224	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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89734 0081000	1,000 FT	140.000 LB	GRAY	C	12 #24 FS PR FFEP SLF
89734 008500	500 FT	71.000 LB	GRAY	C	12 #24 FS PR FFEP SLF

## Notes:

C = CRATE REEL PUT-UP.

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