

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. (mm)
12	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 24

### Insulation

#### Insulation Material:

Insulation Material	Wall Thickness (mm)
FFEP - Foam Fluorinated Ethylene Propylene	0.483

### 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 (mm)
PVDF - Fluorocopolymer	0.483

### Overall Cable

Overall Nominal Diameter: 12.649 mm

**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)**

<b>Operating Temperature Range:</b>	-40°C To +150°C
<b>Bulk Cable Weight:</b>	184.537 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	880.744 N
<b>Min. Bend Radius/Minor Axis:</b>	127 mm

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

<b>NEC/(UL) Specification:</b>	CMP
<b>CEC/C(UL) Specification:</b>	CMP
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	04/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

**Flame Test**

<b>UL Flame Test:</b>	NFPA 262
<b>CSA Flame Test:</b>	FT6

**Plenum/Non-Plenum**

<b>Plenum (Y/N):</b>	Yes
<b>Non-Plenum Number:</b>	9734

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

<b>Impedance (Ohm)</b>
100

**Nom. Inductance:**

<b>Inductance (µH/m)</b>
0.78744

**Nom. Capacitance Conductor to Conductor:**

METRIC MEASUREMENT VERSION

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

**Capacitance (pF/m)**

44.2935

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

**Capacitance (pF/m)**

73.8225

**Nominal Velocity of Propagation:**

**VP (%)**

76

**Nominal Delay:**

**Delay (ns/m)**

4.2653

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/km)**

78.744

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:** 47.246 Ohm/km

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
.384	2.42794
.7056	2.85447
.768	2.92009
1.024	3.11695
1.4112	3.37943
1.536	3.47786
2.048	3.83877
2.28224	4.49497
3.072	4.72464
4.096	5.47927
5.6448	6.20109
6.144	6.43076
8.192	7.41506
11.2896	8.49779
12.288	8.89151
24.576	12.2381

**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.

Revision Number: 2    Revision Date: 10-17-2012

© 2019 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express,

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

statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Multi-Conductor Cables](#) category:*

*Click to view products by [Belden](#) manufacturer:*

Other Similar products are found below :

[8916-GRY-100](#) [8917-BLK-100](#) [8917-GRN/YEL-100](#) [8918-GRN/YEL-100](#) [8920-BRN-1000](#) [8920-RED-1000](#) [89907-LT-DEC/GRY-500](#)  
[CR3909-000](#) [CR3927-000](#) [01342.35T.01](#) [01364.35T.01](#) [CS2885-000](#) [CS8782-000](#) [CS9912-000](#) [6200UE-NAT-U1000](#) [CTC-0062-20-9/5-9](#)  
[CTC-0062-22-9/5-9](#) [6304FE-877-U500](#) [6309UE-877-1000](#) [6320UE-NAT-U1000](#) [644833-000](#) [6502FE 8771000](#) [6504UE-877-U1000](#)  
[CW9530-000](#) [CX6543-000](#) [CXA-0066-20-4-9CS2973](#) [CXA-0078-16-1-9CS2405](#) [CXA-0078-22-4-9CS2405](#) [CXA-0078-24-4-9CS2405](#)  
[CXA-0140-16-6/9-9CS2405](#) [CY0660-000](#) [720451-000](#) [730859-000](#) [MCC-USB-4-250](#) [752687-000](#) [768146-000](#) [773159-000](#) [7934A-BLK-](#)  
[1000](#) [8125-CHR-100](#) [820457-000](#) [8205-CHR-1000](#) [8240-BLK-U1000](#) [82723-NAT-1000](#) [82907-NAT-500](#) [83003-YEL-500](#) [83005-WHT-500](#)  
[83006-DK-GRN-100](#) [83008-WHT-1000](#) [83009-BLK-100](#) [83009-VIO-100](#)