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1-800-Belden1



## General Description:

24 AWG stranded (7x32) TC conductors, 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)
2	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 4

### 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: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVDF - Fluorocopolymer	0.432

### Overall Cable

Overall Nominal Diameter: 6.629 mm

### Pair

Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)	Direction
44.450	22.639	Left Hand

## Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +150°C

Bulk Cable Weight: 40.181 Kg/Km

Max. Recommended Pulling Tension: 146.791 N

Min. Bend Radius/Minor Axis: 69.850 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

NEC Articles: 800

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

**Suitability**

Suitability - Indoor:	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	9729

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)	100
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**Nom. Inductance:**

Inductance (µH/m)	0.78744
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**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)	44.2935
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**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/m)	73.8225
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**Nominal Velocity of Propagation:**

VP (%)	76
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**Nominal Delay:**

Delay (ns/m)	4.2653
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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)	78.744
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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
2.8224	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:**

## METRIC MEASUREMENT VERSION

## 89729 Multi-Conductor - Multi-Pair Snake Cable

<b>Voltage</b>
300 V RMS

**Max. Recommended Current:**

Description	Current
10C Temperature Rise	2.0 Amps per conductor @ 25°C ambient

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89729 0081000	1,000 FT	31.000 LB	GRAY	C	2 SH PR #24 FFEP SLF
89729 008500	500 FT	17.000 LB	GRAY	C	2 SH PR #24 FFEP SLF

**Notes:**

C = CRATE REEL PUT-UP.

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