# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



## 89730 Multi-Conductor - Multi-Pair Snake Cable

For more Information please call

1-800-Belden1



# **General Description:**

24 AWG stranded (7x32) tinned copper conductor, foam FEP insulation, twisted pairs, individually Beldfoil shielded (100% coverage), 24 AWG stranded tinned copper drain wire, overall fluorocopolymer jacket.

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# **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (mm)
3	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors:

#### 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:



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: 7.061 mm

#### Pair

## Pair Color Code Chart:

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

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +150°C
Bulk Cable Weight:	53.575 Kg/Km
Max. Recommended Pulling Tension:	146.791 N
Min. Bend Radius/Minor Axis:	76.200 mm

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## 89730 Multi-Conductor - Multi-Pair Snake Cable

Applicable Specifications and Agency Compliance (Overall)						
Applicable Standards & Envi	Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CMP					
CEC/C(UL) Specification:	CMP					
EU Directive 2011/65/EU (RC	OHS II): Yes					
EU CE Mark:	Yes					
EU Directive 2000/53/EC (EL	V): Yes					
EU Directive 2002/95/EC (Ro	HS): Yes					
EU RoHS Compliance Date	mm/dd/yyyy): 04/01/2005					
EU Directive 2002/96/EC (WI	EEE): Yes					
EU Directive 2003/11/EC (BF	R): Yes					
CA Prop 65 (CJ for Wire & C	able): Yes					
MII 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:	9730					

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



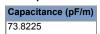
Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



**Nominal Velocity of Propagation:** 



**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 47.246 Ohm/km Deg. C:

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
.384	2.42794
.7056	2.85447

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.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:

Voltage 300 V RMS

#### Max. Recommended Current:

Current	
2.0 Amps per conductor @ 2	5°C

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89730 0081000	305 MT	18.144 KG	GRAY	С	3 SH PR #24 FFEP SLF
89730 008500	152 MT	9.752 KG	GRAY	С	3 SH PR #24 FFEP SLF

#### Notes:

C = CRATE REEL PUT-UP.

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