Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9731 Multi-Conductor - Multi-Pair Snake Cable



For more Information please call

1-800-Belden1



General Description:

Max. Recommended Pulling Tension:

Min. Bend Radius/Minor Axis:

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.) 24 | 7x32 TC - Tinned Copper | .024 **Total Number of Conductors:** 12 Insulation Insulation Material: Insulation Trade Name Insulation Material Wall Thickness (in.) FPE - Foam Polyethylene | 0.019 **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: 24 7x32 Inner Shield Drain Wire Stranding: Inner Shield Drain Wire Conductor Material: TC - Tinned Copper **Outer Jacket** Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (in.) PVC - Polyvinyl Chloride 0.048 **Overall Cable Overall Nominal Diameter:** 0.421 in Pair Pair Color Code Chart: Number Color Black & Red Black & White Black & Green Black & Blue Black & Yellow Black & Brown Pair Lay Length & Direction: Lay Length (in.) Twists (twist/ft) 1.700 6.850 **Mechanical Characteristics (Overall) Operating Temperature Range:** -20°C To +80°C **UL Temperature Rating:** 60°C (UL AWM Style 2493) **Bulk Cable Weight:** 74 lbs/1000 ft.

103 lbs.

4.250 in.

Page 1 of 3 11-05-2015

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

-



9731 Multi-Conductor - Multi-Pair Snake Cable

Applicable Specifications and Agency Compli	ance (Overall)			
Applicable Standards & Environmental Programs	· · ·			
NEC/(UL) Specification:	CM			
CEC/C(UL) Specification:	СМ			
AWM Specification:	UL Style 2493 (300 V 60°C)			
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):	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			
Plenum/Non-Plenum				
Plenum (Y/N):	No			
Plenum Number:	89731			

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 12.5

Nom. Capacitance Cond. to Other Conductor & 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:

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

Page 2 of 3 11-05-2015

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9731 Multi-Conductor - Multi-Pair Snake Cable

11.2896	2.45
12.288	2.57
24.576	3.57

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended 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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9731 060100	100 FT	9.100 LB	CHROME	С	6 FS PR #24 FHDPE PVC
9731 0601000	1,000 FT	83.000 LB	CHROME	С	6 FS PR #24 FHDPE PVC
9731 060500	500 FT	42.000 LB	CHROME	С	6 FS PR #24 FHDPE PVC
9731 0605000	5,000 FT	435.000 LB	CHROME		6 FS PR #24 FHDPE PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-28-2012

© 2015 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, 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, is correct to the best of Belden's knowledge, information, and belief at the date of its bublication. 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 73/23/EEC), as amended by directive 93/68/EEC.

Page 3 of 3 11-05-2015