



9731 Paired - Multi-Pair Snake Cable

 	<p style="text-align: center;">Metric Version For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> <p style="text-align: center;">Color Code Chart : No. 3 for Paired Cables (Belden Standard).pdf</p>
--	--

Description:

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:

CONDUCTOR:

Number of Pairs	6
Total Number of Conductors	12
AWG	24
Stranding	7x32
Conductor Diameter	0.61 mm
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material Trade Name	Datalene®
Insulation Material	FPE - Foam Polyethylene
Insulation Diameter	1.549 mm
Lay Length	4.318 cm
Twists/ft.	6.85

Pair Color Code Chart :

Number	Color	Number	Color
1	Black & Red	4	Black & Blue
2	Black & White	5	Black & Yellow
3	Black & Green	6	Black & Brown

INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil® (Z-Fold®)
Inner Shield Type	Tape
Inner Shield Material	Aluminum Foil-Polyester Tape

9731 Paired - Multi-Pair Snake Cable

Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	24
Inner Shield Drain Wire Stranding	7x32
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
-----------------------	--------------------------

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	10.693 mm
--------------------------	-----------

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +80°C
UL Temperature Rating	60°C (UL AWM Style 2493)
Bulk Cable Weight	122.032 Kg/Km
Max. Recommended Pulling Tension	458.165 N
Min. Bend Radius (Install)	114.3 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2493 (300 V 60°C)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

FLAME TEST:

UL Flame Test	UL1685 UL Loading
---------------	-------------------

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	89731

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	100 Ohms
Nom. Inductance	0.394 µH/m
Nom. Capacitance Conductor to Conductor @ 1 KHz	41.012 pF/m
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	76.119 pF/m
Nominal Velocity of Propagation	76 %
Nominal Delay	4.561 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	78.744 Ohms/km
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	49.215 Ohms/km



9731 Paired - Multi-Pair Snake Cable

Nom. Attenuation (dB/100 ft) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	0.384			2.428
	0.706			2.854
	0.768			2.887
	1.024			3.084
	1.411			3.314
	1.536			3.379
	2.048			3.708
	2.822			4.232
	3.072			4.429
	4.096			5.151
	5.645			5.84
	6.144			6.037
	8.192			6.989
	11.29			8.038
	12.288			8.432
	24.576			11.713

Max. Operating Voltage - UL 300 V RMS (UL AWM Style 2493)

Max. Recommended Current 2.5 Amps per conductor @ 25°C

NOTES:

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	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
9731 060100	6 FS PR #24 FHDPE PVC	30.48	3.36	CHROME	C
9731 0601000	6 FS PR #24 FHDPE PVC	304.8	37.682	CHROME	C
9731 060500	6 FS PR #24 FHDPE PVC	152.4	19.068	CHROME	C

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-21-2005

9731 Paired - Multi-Pair Snake Cable

© 2005 Belden Wire & Cable Company
All Rights Reserved.

Although Belden Electronics Division ("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 CDT Electronics Division believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). 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 the 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 CDT Electronics Division declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.