Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9731 Multi-Conductor - Multi-Pair Snake Cable



For more Information please call

1-800-Belden1



General 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.

12

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
6	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.483

Inner Shield

Inner Shield Material:

Inner Shield Trade Name Ty		Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	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)
PVC - Polyvinyl Chloride	1.219

Overall Cable

Overall Nominal Diameter: 10.693 mm

Pair

Pair Color Code Chart:

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

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)
43.18	22.475

Mechanical Characteristics (Overall)

Page 1 of 3 10-30-2013

Detailed Specifications & Technical Data





9731 Multi-Conductor - Multi-Pair Snake Cable

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	60°C (UL AWM Style 2493)
Bulk Cable Weight:	110.127 Kg/Km
Max. Recommended Pulling Tension:	458.165 N
Min. Bend Radius/Minor Axis:	107.950 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM		
CEC/C(UL) Specification:	CM		
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		
ime Test			
UL Flame Test:	UL1685 UL Loading		

Fla

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 89731

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance	(Ohm)
100	

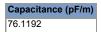
Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nominal Delay:

Delay (ns/m) 4.56059

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Detailed Specifications & Technical Data





9731 Multi-Conductor - Multi-Pair Snake Cable

Ind. Pair Nominal Shield DC Resistance @ 20 49.215 Ohm/km Deg. C:

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
.384	2.42794
.7056	2.85447
.768	2.88728
1.024	3.08414
1.4112	3.31381
1.536	3.37943
2.048	3.70753
2.8224	4.23249
3.072	4.42935
4.096	5.15117
5.6448	5.84018
6.144	6.03704
8.192	6.98853
11.2896	8.03845
12.288	8.43217
24.576	11.7132

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

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	30 MT	4.128 KG	CHROME	С	6 FS PR #24 FHDPE PVC
9731 0601000	305 MT	37.648 KG	CHROME	С	6 FS PR #24 FHDPE PVC
9731 060500	152 MT	19.051 KG	CHROME	С	6 FS PR #24 FHDPE PVC
9731 0605000	1,524 MT	197.314 KG	CHROME		6 FS PR #24 FHDPE PVC

Notes:

C = CRATE REEL PUT-UP.

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