### **ENGLISH MEASUREMENT VERSION**



## 9738 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.

# **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
27	24	7x32	TC - Tinned Copper	.024

Total Number of Conductors:

54

### Insulation

### **Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Datalene®	FPE - Foam Polyethylene	0.019

### **Inner Shield**

### Inner Shield Material:

Inner Shield Trade Name		Туре	Inner Shield Material	Coverage (%)
	Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

#### Inner Shield Drain Wire AWG:

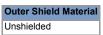


Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

### **Outer Shield**

### **Outer Shield Material:**



### **Outer Jacket**

### **Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.065

## **Overall Cable**

Overall Nominal Diameter: 0.797 in.

### **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
7	Black & Orange
8	Red & White

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9	Red & Green		
10	Red & Blue		
11	Red & Yellow		
12	Red & Brown		
13	Red & Orange		
14	Green & White		
15	Green & Blue		
16	Green & Yellow		
17	Green & Brown		
18	Green & Orange		
19	White & Blue		
20	White & Yellow		
21	White & Brown		
22	White & Orange		
23	Blue & Yellow		
24	Blue & Brown		
25	Blue & Orange		
26	Brown & Yellow		
27	Brown & Orange		

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C	
UL Temperature Rating:	60°C (UL AWM Style 2493)	
Bulk Cable Weight:	269 lbs/1000 ft.	
Max. Recommended Pulling Tension:	432 lbs.	
Min. Bend Radius/Minor Axis:	8 in.	

# **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
ame Test	

### **Flame Test**

**UL Flame Test:** UL1685 UL Loading

### Plenum/Non-Plenum

Plenum (Y/N): No

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 100

Nom. Inductance:

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Inductance (µH/ft) 0.23

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

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 24

Ind. Pair Nominal Shield DC Resistance @ 20

15 Ohm/1000 ft

Deg. C:

#### 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
11.2896	2.45
12.288	2.57
24.576	3.57

### Max. Operating Voltage - UL:

Voltage 300 V RMS

## Max. Recommended Current:

Current
1.9 Amps per conductor @ 25°C

## **Notes (Overall)**

**Notes:** Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distorition data handling. Physical properties include good crush resistance and light weight.

# **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9738 0601000	1,000 FT	334.000 LB	CHROME	С	27 FS PR #24 FHDPE PVC

Notes

C = CRATE REEL PUT-UP.

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### 9738 Multi-Conductor - Multi-Pair Snake Cable

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

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