METRIC MEASUREMENT VERSION



9730 Multi-Conductor - Multi-Pair Snake Cable

For more Information please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 24 AWG stranded tinned copper drain wire, overall PVC jacket.

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Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
3	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	Type	Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:

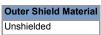


Inner Shield Drain Wire Stranding: 7x32

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 (mm)
PVC - Polyvinyl Chloride	1.219

Overall Cable

Overall Nominal Diameter: 8.484 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)	Direction
44.450	22.639	Left Hand

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perating Temperature Range:	-20°C To +80°C		
UL Temperature Rating:	60°C (UL AWM Style 2493)		
Bulk Cable Weight:	62.504 Kg/Km		
Max. Recommended Pulling Tension:	226.858 N		
Min. Bend Radius/Minor Axis:	88.900 mm		
plicable Specifications and Agency Co	mnliance (Overall)		
oplicable Standards & Environmental Progr	. ,		
NEC/(UL) Specification:	СМ		
NEC Articles:	800		
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			
UL Flame Test:	UL1685 UL Loading		
CSA Flame Test:	FT1		
uitability			
Suitability - Indoor:	Yes		
enum/Non-Plenum			
Plenum (Y/N):	No		
Plenum Number:	89730		

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 100

Nom. Inductance:

Inductance (µH/m) 0.75463

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 41.0125

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 76.1192

Nom. Mutual Capacitance:

Capacitance (pF/m)

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127.959

Nominal Velocity of Propagation:

VP (%) 76

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:

49.215 Ohm/km

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:

Description	Current
35C Temperature Rise	2.5 Amps per conductor @ 25°C ambient

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
9730 060100	30 MT	2.313 KG	CHROME		3 FS PR #24 FHDPE PVC
9730 0601000	305 MT	20.865 KG	CHROME	С	3 FS PR #24 FHDPE PVC
9730 06010000	3,048 MT	235.869 KG	CHROME	CY	3 FSPR #24 FHDPE PVC
9730 060500	152 MT	11.113 KG	CHROME	С	3 FS PR #24 FHDPE PVC
9730 0605000	1,524 MT	106.595 KG	CHROME	С	3 FS PR #24 FHDPE PVC

Notes:

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

Revision Number: 2 Revision Date: 08-07-2013

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