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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.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
3	24	7x32	TC - Tinned Copper	.024

Total Number of Conductors: 6

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

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.048

Overall Cable

Overall Nominal Diameter: 0.334 in.

Pair

Pair Color Code Chart:

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

Pair Lay Length & Direction:

Lay Length (in.)	Twists (twist/ft)	Direction
1.750	6.900	Left Hand

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 60°C (UL AWM Style 2493)

Bulk Cable Weight: 42 lbs/1000 ft.

Max. Recommended Pulling Tension: 51 lbs.

Min. Bend Radius/Minor Axis: 3.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
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

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT1

Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	89730

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
100

Nom. Inductance:

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

Nom. Mutual Capacitance:

Capacitance (pF/ft)
39

Nominal Velocity of Propagation:

VP (%)
76

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

9730 Multi-Conductor - Multi-Pair Snake Cable

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:

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	100 FT	5.100 LB	CHROME		3 FS PR #24 FHDPE PVC
9730 0601000	1,000 FT	46.000 LB	CHROME	C	3 FS PR #24 FHDPE PVC
9730 06010000	10,000 FT	520.000 LB	CHROME	C Y	3 FS PR #24 FHDPE PVC
9730 060500	500 FT	24.500 LB	CHROME	C	3 FS PR #24 FHDPE PVC
9730 0605000	5,000 FT	235.000 LB	CHROME	C	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'.

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