

**9729 Multi-Conductor - Shielded Twisted Pair Cable**



For more Information  
 please call  
 1-800-Belden1



**Description**

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

**Physical Characteristics (Overall):**

**Conductor:**

AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
2.000	24	7x32	TC - Tinned Copper	0.024

**Insulation:**

Insulation Material

Ins Trade Name	Ins Material	Dia. (in.)
Datalene®	FPE - Foam Polyethylene	0.061

**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 Jacket:**

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cabling:**

Overall Nominal Diameter: .266 in.

**Pair:**

Pair Color Code Chart

Number	Color
1	Black & Red
2	Black & White

Pair Lay Length & Direction

Lay Length (in.)	Twists/ft. (twist/ft)
1.100	10.900

**Mechanical Characteristics (Overall):**

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

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

Bulk Cable Weight: 34.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 22 lbs.

Min. Bend Radius (Install): 3.250 in.

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**Applicable Specifications and Agency Compliance (Overall):**

**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
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**Plenum/Non-Plenum:**

Plenum (Y/N)	N
Plenum Number	89729, 82729

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
100.000

Nom. Inductance

Inductance (μH/ft)
0.230

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
12.500

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
23.200

Nominal Velocity of Propagation

VP (%)
76

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
24.000

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	0.384			0.740
	0.706			0.870
	0.768			0.880
	1.024			0.940
	1.411			1.010
	1.536			1.030
	2.048			1.130
	2.822			1.290
	3.072			1.350
	4.096			1.570
	5.645			1.780
	6.144			1.840
	8.192			2.130
	11.290			2.450
	12.288			2.570
	24.576			3.570

Max. Operating Voltage - UL

**9729 Multi-Conductor - Shielded Twisted Pair Cable**

**Voltage**

300 V RMS (UL AWM Style 2493)

Max. Recommended Current

**Current**

1 Amp per conductor @ 25°C

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:15 Ohm/1000 ft

**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	Jacket Color	Notes	Item Desc
9729 060100	100 FT	4.300 LB	CHROME		2 FS PR #24 FHDPE PVC CHR
9729 0601000	1,000 FT	39.000 LB	CHROME	C	2 FS PR #24 FHDPE PVC CHR
9729 06010000	10,000 FT	390.000 LB	CHROME	C Y	2 FS PR #24 FHDPE PVC CHR
9729 060500	500 FT	20.500 LB	CHROME	C	2 FS PR #24 FHDPE PVC CHR

**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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