

## 9729 Paired - Shielded Twisted Pair Cable

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : No. 3 for Paired Cables (Belden Standard).pdf</p>
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### 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:

#### CONDUCTOR:

Number of Pairs	2
Total Number of Conductors	4
AWG	24
Stranding	7x32
Conductor Diameter	.024 in.
Conductor Material	TC - Tinned Copper

#### INSULATION:

Insulation Material Trade Name	Datalene®
Insulation Material	FPE - Foam Polyethylene
Insulation Diameter	.061 in.
Lay Length	1.1 in.
Twists/ft.	10.9

#### Pair Color Code Chart :

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

#### INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil® (Z-Fold®)
Inner Shield Type	Tape
Inner Shield Material	Aluminum Foil-Polyester Tape
Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	24
Inner Shield Drain Wire Stranding	7x32
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

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**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.266 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +80°C
UL Temperature Rating	60°C (UL AWM Style 2493)
Bulk Cable Weight	34.5 lbs/1000 ft.
Max. Recommended Pulling Tension	22 lbs.
Min. Bend Radius (Install)	3.25 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**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:**

Nom. Characteristic Impedance	100 Ohms
Nom. Inductance	0.23 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	12.5 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	23.2 pF/ft
Nominal Velocity of Propagation	76 %
Nom. Conductor DC Resistance @ 20 Deg. C	24 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	15 Ohms/1000 ft
Nom. Attenuation (dB/100 ft) :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. 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 300 V RMS (UL AWM Style 2493)

Max. Recommended Current 1 Amp per conductor @ 25°C

**NOTES:**

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	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9729 060100	2 FS PR #24 FHDPE PVC	100	3.5	CHROME	
9729 0601000	2 FS PR #24 FHDPE PVC	1000	39	CHROME	C
9729 06010000	2 FS PR #24 FHDPE PVC	10000	390	CHROME	C Y
9729 060500	2 FS PR #24 FHDPE PVC	500	20.5	CHROME	C

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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