



9729 Paired - Shielded Twisted Pair Cable

 	<p>Metric Version For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Color Code Chart : 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	0.61 mm
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material Trade Name	Datalene®
Insulation Material	FPE - Foam Polyethylene
Insulation Diameter	1.549 mm
Lay Length	2.794 cm
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



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Inner Shield Drain Wire Stranding	7x32
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	6.756 mm
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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	51.343 Kg/Km
Max. Recommended Pulling Tension	97.86 N
Min. Bend Radius (Install)	82.55 mm

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	0.755 µH/m
Nom. Capacitance Conductor to Conductor @ 1 KHz	41.012 pF/m
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	76.119 pF/m
Nominal Velocity of Propagation	76 %
Nom. Conductor DC Resistance @ 20 Deg. C	78.744 Ohms/km
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	49.215 Ohms/km
Nom. Attenuation (dB/100 ft) :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	0.384			2.428
	0.706			2.854
	0.768			2.887
	1.024			3.084
	1.411			3.314
	1.536			3.379
	2.048			3.708
	2.822			4.232
	3.072			4.429
	4.096			5.151
	5.645			5.84
	6.144			6.037
	8.192			6.989
	11.29			8.038
	12.288			8.432
	24.576			11.713

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 (M)	Ship Weight (kgs.)	Jacket Color	Notes
9729 060100	2 FS PR #24 FHDPE PVC	30.48	1.952	CHROME	
9729 0601000	2 FS PR #24 FHDPE PVC	304.8	17.706	CHROME	C
9729 06010000	2 FS PR #24 FHDPE PVC	3048	177.06	CHROME	C Y
9729 060500	2 FS PR #24 FHDPE PVC	152.4	9.307	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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