

**BELDEN**Cable™

**8104 Paired - Low Capacitance Computer Cables for EIA RS-232/422**

 	<p><b>For more information please call</b> <b>1-800-Belden1</b></p> <p><b>See Put-ups and Colors</b></p> <p><b>Color Code Chart : No. 5 for Paired Cables (Western Electric Standard).pdf</b></p>
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**Description:**

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 24 AWG stranded TC drain wire, PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	7x32
Conductor Material	TC - Tinned Copper

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

**INSULATION:**

Insulation Material Trade Name	Datalene®
Insulation Material	FPE - Foam Polyethylene

**Pair Color Code Chart :**

Number	Color	Number	Color
1	White/Blue & Blue/White	3	White/Green & Green/White
2	White/Orange & Orange/White	4	White/Brown & Brown/White

**OUTER SHIELD:**

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape/Braid
Outer Shield Material :	

Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100
2		Braid	TC - Tinned Copper	65

Outer Shield %Coverage	100 %
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**OUTER SHIELD DRAIN WIRE :**

Outer Shield Drain Wire AWG	24
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Outer Shield Drain Wire Stranding	7x32
Outer 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	.302 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-30°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 2919)
Bulk Cable Weight	47.5 lbs/1000 ft.
Max. Recommended Pulling Tension	49.5 lbs.
Min. Bend Radius (Install)	3 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2919 (30 V 80°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	88104

**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	100 Ohms
Nom. Capacitance Conductor to Conductor @ 1 KHz	12.5 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	22 pF/ft
Nominal Velocity of Propagation	78 %
Nom. Conductor DC Resistance @ 20 Deg. C	24 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	4.1 Ohms/1000 ft
Max. Operating Voltage - UL	30 V RMS (UL AWM Style 2919), 300 V RMS
Max. Recommended Current	1.5 Amps per conductor @ 25°C

**NOTES:**

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**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
8104 060100	4 PR #24 FHDPE SH PVC	100	5.1	CHROME	
8104 0601000	4 PR #24 FHDPE SH PVC	1000	46	CHROME	C
8104 06010000	4 PR #24 FHDPE SH PVC	10000	490	CHROME	C Y
8104 060500	4 PR #24 FHDPE SH PVC	500	23	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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