

## BELDEN Cable

### 8102 Paired - Low Capacitance Computer Cable for EIA RS-232/422




**For more information please call**  
**1-800-Belden1**

**See Put-ups and Colors**

**Color Code Chart : No. 5 for Paired Cables (Western Electric Standard).pdf**

#### 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	2
Total Number of Conductors	4
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	2	White/Orange & Orange/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	.270 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	37 lbs/1000 ft.
Max. Recommended Pulling Tension	27.5 lbs.
Min. Bend Radius (Install)	2.75 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	88102

**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	100 Ohms
Nom. Inductance	.201 µH/ft
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	4.6 Ohms/1000 ft
Max. Operating Voltage - UL	30 V RMS (UL AWM Style 2919), 300 V RMS
Max. Recommended Current	1.8 Amps per conductor @ 25°C

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**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
8102 060100	2 PR #24 FHDPE SH PVC	100	4.1	CHROME	
8102 0601000	2 PR #24 FHDPE SH PVC	1000	38	CHROME	C
8102 06010000	2 PR #24 FHDPE SH PVC	10000	380	CHROME	C Y
8102 060500	2 PR #24 FHDPE SH PVC	500	19	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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