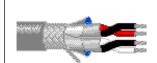


# 8162 Paired - Low Capacitance Computer Cable for EIA RS-232/422 & Digital





For more information please call
1-800-Belden1

**See Put-ups and Colors** 

Related Documents : No. 3 for Paired Cables (Belden Standard).pdf

## **Description:**

 $24\ AWG\ stranded\ (7x32)\ TC\ conductors,\ Datalene @insulation,\ twisted\ pairs\ individually\ Beldfoil @shielded+overall\ 100\%\ Beldfoil+TC\ braid\ shield\ (65\%\ coverage),\ drain\ wire,\ PVC\ jacket$ 

### PHYSICAL CHARACTERISTICS:

### **CONDUCTOR:**

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

### **INSULATION:**

Insulation Material Trade Name	Datalene®
Insulation Material	FPE - Foam Polyethylene
Lay Length	1 in.
Twists/ft.	12

## Pair Color Code Chart:

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

### **INNER SHIELD:**

Inner Shield Material Trade Name	Beldfoil®
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

### **OUTER SHIELD:**

Outer Shield Material Trade Name Beldfoil® (Z-Fold®)



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Outer Shield Type	Tape/Braid
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Outer Shield Material:

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

Outer Shield %Coverage 100 %

**OUTER JACKET:** 

Outer Jacket Material PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .343 in.

**MECHANICAL CHARACTERISTICS:** 

Operating Temperature Range	-40°C To +60°C
Non-UL Temperature Rating	60°C (UL AWM Style 2493)
Bulk Cable Weight	66 lbs/1000 ft.
Max. Recommended Pulling Tension	63 lbs.
Min. Bend Radius (Install)	3.5 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 VW-1, UL1685 UL Loading

PLENUM/NON-PLENUM:

Plenum (Y/N) N

## **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	24.0 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	18 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	4.3 Ohms/1000 ft



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Max. Operating Voltage - UL	300 V RMS
Max. Recommended Current	1.8 Amps 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
8162 060100	2 FS PR #24 FHDPE SH PVC	100	6.2	CHROME	
8162 0601000	2 FS PR #24 FHDPE SH PVC	1000	57	CHROME	С
8162 060500	2 FS PR #24 FHDPE SH PVC	500	30	CHROME	С

#### C = CRATE REEL PUT-UP.

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