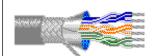


# 8103 Paired - Low Capacitance Computer Cable for EIA RS-232/422





For more information please call 1-800-Belden1

See Put-ups and Colors

Related Documents : 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	3
Total Number of Conductors	6
AWG	24
Stranding	7x32
Conductor Material	TC - Tinned Copper

#### **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		

#### **OUTER SHIELD:**

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

# Outer Shield Material:

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

Outer Shield %Coverage 100 %

## **OUTER SHIELD DRAIN WIRE:**

Outer Shield Drain Wire AWG	24
Outer Shield Drain Wire Stranding	7x32



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Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
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**OUTER JACKET:** 

Outer Jacket Material PVC - Polyvinyl Chloride

**OVERALL NOMINAL DIAMETER:** 

Overall Nominal Diameter .283 in.

**MECHANICAL CHARACTERISTICS:** 

Operating Temperature Range -30°C To +80°C

UL Temperature Rating 80°C (UL AWM Style 2919)

Bulk Cable Weight 41 lbs/1000 ft.

Max. Recommended Pulling Tension 38.5 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

### PLENUM/NON-PLENUM:

 Plenum (Y/N)
 N

 Plenum Number
 88103

# **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	3.8 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:

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.



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#### **PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8103 060100	3 PR #24 FHDPE SH PVC	100	3.9	CHROME	
8103 0601000	3 PR #24 FHDPE SH PVC	1000	42	CHROME	С
8103 06010000	3 PR #24 FHDPE SH PVC	10000	430	CHROME	CY
8103 060500	3 PR #24 FHDPE SH PVC	500	19.5	CHROME	С

#### 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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