



**8105 Paired - Low Capacitance Computer Cable for EIA RS-232/422**

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p><b>Related Documents : 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	5
Total Number of Conductors	10
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	4	White/Brown & Brown/White
2	White/Orange & Orange/White	5	White/Gray & Gray/White
3	White/Green & Green/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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<b>OUTER SHIELD DRAIN WIRE :</b>	
Outer Shield Drain Wire AWG	24
Outer Shield Drain Wire Stranding	7x32
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

<b>OUTER JACKET:</b>	
Outer Jacket Material	PVC - Polyvinyl Chloride

<b>OVERALL NOMINAL DIAMETER:</b>	
Overall Nominal Diameter	.316 in.

<b>MECHANICAL CHARACTERISTICS:</b>	
Operating Temperature Range	-30°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 2919)
Bulk Cable Weight	52.5 lbs/1000 ft.
Max. Recommended Pulling Tension	60.5 lbs.
Min. Bend Radius (Install)	3.25 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

<b>APPLICABLE STANDARDS:</b>	
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

<b>FLAME TEST:</b>	
UL Flame Test	UL1685 UL Loading

<b>PLENUM/NON-PLENUM:</b>	
Plenum (Y/N)	N
Plenum Number	88105

<b>ELECTRICAL CHARACTERISTICS:</b>	
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	4.2 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



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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.
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**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8105 060100	5 PR #24 FHDPE SH PVC	100	5.8	CHROME	
8105 0601000	5 PR #24 FHDPE SH PVC	1000	53	CHROME	C
8105 060500	5 PR #24 FHDPE SH PVC	500	28	CHROME	C

C = CRATE REEL PUT-UP.

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