

8164 Paired - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : No. 3 for Paired Cables (Belden Standard).pdf</p>
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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	4
Total Number of Conductors	8
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	3	Black & Green
2	Black & White	4	Black & Blue

INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil® (Z-Fold®)
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:

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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	100
2		Braid	TC - Tinned Copper	65
Outer Shield %Coverage		100 %		

Outer Shield % Coverage 100 %

OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .388 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range -40°C To +60°C
 Non-UL Temperature Rating 60°C (UL AWM Style 2493)
 Bulk Cable Weight 75 lbs/1000 ft.
 Max. Recommended Pulling Tension 111 lbs.
 Min. Bend Radius (Install) 4 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 UL581 Vertical Tray, VW-1

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

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Nominal Outer Shield DC Resistance @ 20 Deg. C	3.2 Ohms/1000 ft
Max. Operating Voltage - UL	300 V RMS
Max. Recommended Current	2.5 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
8164 060100	4 FS PR #24 FHDPE SH PVC	100	8.2	CHROME	
8164 0601000	4 FS PR #24 FHDPE SH PVC	1000	79	CHROME	C
8164 060500	4 FS PR #24 FHDPE SH PVC	500	39.5	CHROME	C

C = CRATE REEL PUT-UP.

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