



8138 Paired - Low Capacitance Computer Cable for EIA RS-232/485

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Color Code Chart : No. 5 for Paired Cables (Western Electric Standard).pdf</p>
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Description:

28 AWG stranded (7x36) TC conductors, Datalene® insulation, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 28 AWG stranded TC drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	8
Total Number of Conductors	16
AWG	28
Stranding	7x36
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material Trade Name	Datalene®
Insulation Material	FPE - Foam Polyethylene
Lay Length	.88 in.
Twists/ft.	13.6

Pair Color Code Chart :

Number	Color	Number	Color
1	White/Blue & Blue/White	5	White/Gray & Gray/White
2	White/Orange & Orange/White	6	Red/Blue & Blue/Red
3	White/Green & Green/White	7	Red/Orange & Orange/Red
4	White/Brown & Brown/White	8	Red/Green & Green/Red

OUTER SHIELD:

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



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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 %

OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG 28
 Outer Shield Drain Wire Stranding 7x36
 Outer Shield Drain Wire Conductor Material TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .330 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range -30°C To +80°C
 UL Temperature Rating 80°C (UL AWM Style 2919)
 Bulk Cable Weight 58 lbs/1000 ft.
 Min. Bend Radius (Install) 3.3 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification CL2
 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

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance 120 Ohms
 Nom. Capacitance Conductor to Conductor @ 1 KHz 11 pF/ft
 Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz 20 pF/ft
 Nominal Velocity of Propagation 78 %
 Nom. Conductor DC Resistance @ 20 Deg. C 65 Ohms/1000 ft
 Nominal Outer Shield DC Resistance @ 20 Deg. C 3.7 Ohms/1000 ft



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Max. Operating Voltage - UL	30 V RMS (UL AWM Style 2919); 150 V RMS
Max. Recommended Current	0.7 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
8138 060100	8 PR #28 FHDPE SH PVC	100	5.6	CHROME	
8138 0601000	8 PR #28 FHDPE SH PVC	1000	52	CHROME	C
8138 060500	8 PR #28 FHDPE SH PVC	500	27	CHROME	C

C = CRATE REEL PUT-UP.

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