



8148 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	18
Total Number of Conductors	36
AWG	28
Stranding	7x36
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	White/Blue & Blue/White	10	Red/Gray & Gray/Red
2	White/Orange & Orange/White	11	Black/Blue & Blue/Black
3	White/Green & Green/White	12	Black/Orange & Orange/Black
4	White/Brown & Brown/White	13	Black/Green & Green/Black
5	White/Gray & Gray/White	14	Black/Brown & Brown/Black
6	Red/Blue & Blue/Red	15	Black/Gray & Gray/Black
7	Red/Orange & Orange/Red	16	Yellow/Blue & Blue/Yellow
8	Red/Green & Green/Red	17	Yellow/Orange & Orange/Yellow
9	Red/Brown & Brown/Red	18	Yellow/Green & Green/Yellow

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
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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 %

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 .465 in.

MECHANICAL CHARACTERISTICS:

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

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

Bulk Cable Weight 99 lbs/1000 ft.

Min. Bend Radius (Install) 4.65 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 %



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Nom. Conductor DC Resistance @ 20 Deg. C	65 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	2.6 Ohms/1000 ft
Max. Operating Voltage - UL	30 V RMS (UL AWM Style 2919); 150 V RMS
Max. Recommended Current	0.6 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
8148 060100	18 PR #28 FHDPE SH PVC	100	10	CHROME	
8148 0601000	18 PR #28 FHDPE SH PVC	1000	92	CHROME	C
8148 060500	18 PR #28 FHDPE SH PVC	500	47.5	CHROME	C

C = CRATE REEL PUT-UP.

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