

BELDENCable™

9843 Paired - Low Capacitance Computer Cables for EIA RS-485 Applications

 	<p>Metric Version 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:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% 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	PE - Polyethylene
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Lay Length :

Lay Length (cm)	Direction	Twists/ft (twist/m)
2.54	Left Hand Lay	39.372

Twists/ft.	12
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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 :	



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Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG	24
Outer Shield Drain Wire Stranding	7x32
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	9.144 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 2919)
Bulk Cable Weight	108.639 Kg/Km
Max. Recommended Pulling Tension	469.285 N
Min. Bend Radius (Install)	95.25 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2919 (300 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
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	120 Ohms
Nom. Capacitance Conductor to Conductor @ 1 KHz	75.463 pF/m
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	41.997 pF/m
Nominal Velocity of Propagation	66 %
Nominal Delay	5.25 ns/m



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Nom. Conductor DC Resistance @ 20 Deg. C	78.744 Ohms/km
Nominal Outer Shield DC Resistance @ 20 Deg. C	7.546 Ohms/km
Nom. Attenuation (dB/100 ft)	1.969 (@ 1 MHz) dB/100m
Max. Operating Voltage - UL	300 V RMS (UL AWM Style 2919)
Max. Recommended Current	1.54 Amps per conductor @ 25°C

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
9843 060100	3 PR #24 PE SH PVC	30.48	3.223	CHROME	
9843 0601000	3 PR #24 PE SH PVC	304.8	30.418	CHROME	C
9843 060500	3 PR #24 PE SH PVC	152.4	15.663	CHROME	C

C = CRATE REEL PUT-UP.

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