

BELDENCable™

9841 Paired - Low Capacitance Computer Cable 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	1
Total Number of Conductors	2
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)
6.35	Left Hand Lay	15.749

Twists/ft.	4.8
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Pair Color Code Chart	White/Blue and Blue/White
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OUTER SHIELD:

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

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
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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	5.893 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +80°C
UL Temperature Rating	80°C
Bulk Cable Weight	53.575 Kg/Km
Max. Recommended Pulling Tension	321.605 N
Min. Bend Radius (Install)	63.5 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

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

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	82841, 89841

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	120 Ohms
Nom. Capacitance Conductor to Conductor @ 1 KHz	41.997 pF/m
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	75.463 pF/m
Nominal Velocity of Propagation	66 %
Nominal Delay	5.25 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	78.744 Ohms/km
Nominal Outer Shield DC Resistance @ 20 Deg. C	11.155 Ohms/km
Nom. Attenuation (dB/100 ft)	1.969 (@ 1 MHz) dB/100m
Max. Operating Voltage - UL	300 V RMS, 30 V RMS (UL AWM Style 2919)
Max. Recommended Current	2.1 Amps per conductor @ 25°C

PUT-UPS AND COLORS:



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Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
9841 060100	1 PR #24 PE SH PVC	30.48	1.952	CHROME	
9841 0601000	1 PR #24 PE SH PVC	304.8	18.16	CHROME	C
9841 060500	1 PR #24 PE SH PVC	152.4	9.08	CHROME	C

C = CRATE REEL PUT-UP.

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