

9841 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-485 Applications

For more Information please call

1-800-Belden1



General Description:

Max. Recommended Pulling Tension:

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 (Overall)					
Conductor AWG:					
# Pairs AWG Stranding Conductor Material					
1 24 7x32 TC - Tinned Copper					
Total Number of Conductors: 2					
Insulation					
Insulation Material:					
Insulation Material Wall Thickness (mm)					
PE - Polyethylene 0.584					
Outer Shield Outer Shield Material:					
Layer # Outer Shield Trade Name Type Outer Shield Material Coverage (%)					
1 Beldfoil® (w/ shorting fold) Tape Aluminum Foil-Polyester Tape 100.000					
2 Braid TC - Tinned Copper 90.000					
Outer Shield Drain Wire AWG:					
AWG Stranding Drain Wire Conductor Material					
24 7x#32 TC - Tinned Copper					
Outer Jacket					
Outer Jacket Material:					
Outer Jacket Material Nom. Wall Thickness (mm)					
PVC - Polyvinyl Chloride 0.889					
Overall Cable					
Overall Cabling Fillers: Fibrous Polypropylene					
Overall Cabling Lay Length & Direction:					
Length (mm) Direction Twists (twist/m)					
63.500 Left Hand 15.749					
Overall Nominal Diameter: 5.893 mm					
Pair					
Pair Color Code Chart:					
Color White/Blue and Blue/White					
Mechanical Characteristics (Overall)					
Operating Temperature Range: -30°C To +90°C					
UL Temperature Rating: 80°C (UL AWM Style 2919)					
ulk Cable Weight: 53.575 Kg/Km					

321.605 N

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

9841 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-485 Applications

Min. Bend Radius/Minor Axis:	63.500 mm					
pplicable Specifications and Agency Compliance (Overall)						
Applicable Standards & Environmental Programs						
NEC/(UL) Specification:	СМ					
NEC Articles:	800					
CEC/C(UL) Specification:	СМ					
AWM Specification:	UL Style 2919 (30 V 80°C)					
EU Directive 2011/65/EU (ROHS II):	Yes					
EU CE Mark:	Yes					
EU Directive 2000/53/EC (ELV):	Yes					
EU Directive 2002/95/EC (RoHS):	Yes					
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004					
EU Directive 2002/96/EC (WEEE):	Yes					
EU Directive 2003/11/EC (BFR):	Yes					
CA Prop 65 (CJ for Wire & Cable):	Yes					
MII Order #39 (China RoHS):	Yes					
Flame Test						
UL Flame Test:	UL1685 UL Loading					
CSA Flame Test:	FT1					
Suitability						
Suitability - Indoor:	Yes					
Plenum/Non-Plenum						
Plenum (Y/N):	No					
Plenum Number:	82841, 89841					

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 120

Nom. Capacitance Conductor to Conductor:

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Capacitance (pF/m)
41.9968
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+1.9900

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

75.463

Nominal Velocity of Propagation:



Nominal Delay:

Delay (ns/m) 5.2496

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 11.1554



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Nom. Attenuation:

	Freq. (MHz)	Attenuation	(dB/100m)				
	1.000	1.969					
	Max. Operating Voltage - UL:						
Ma	ax. Operatii	ng Voltage	- UL:				
Ma	Voltage	ng Voltage - Description	- UL:				
Ma	•	Description	- UL:				
Ma	Voltage 300 V RMS	Description	- UL:				

Max. Recommended Current:

Description Current 10C temperature rise 2.1 Amps per conductor @ 25°C ambient

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9841 060100	30 MT	1.950 KG	CHROME		1 PR #24 PE SH PVC
9841 0601000	305 MT	18.144 KG	CHROME	С	1 PR #24 PE SH PVC
9841 06010000	3,048 MT	172.366 KG	CHROME	С	1 PR #24 PE SH PVC
9841 060500	152 MT	9.072 KG	CHROME	С	1 PR #24 PE SH PVC
9841 0605000	1,524 MT	90.719 KG	CHROME		1 PR #24 PE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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