

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

For more Information please call

1-800-Belden1



#### **General 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 (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	d Material Coverage (%)
1 Beldfoil® (w/ shorting fold) Tape Aluminum Fo	
2 Braid TC - Tinned C	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	5.055 mm
Pair Color Code Chart:	
Color	
White/Blue and Blue/White	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +80°C
Bulk Cable Weight:	53.575 Kg/Km
Max. Recommended Pulling Tension:	321.605 N
Min. Bend Radius/Minor Axis:	63.500 mm
Applicable Specifications and Agency Compl	iance (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

# **Detailed Specifications & Technical Data**



### METRIC MEASUREMENT VERSION

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

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):	01/0	1/2004			
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:	UL1	685 UL Loading			
CSA Flame Test:	FT1				
Suitability					
Suitability - Indoor:	Yes				
Plenum/Non-Plenum					
Plenum (Y/N):	No				
Plenum Number:	8284	1, 89841			
Electrical Characteristics (Overall)					
Nom. Capacitance Conductor to Conductor: Capacitance (pF/m) 41.9968 Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/m) 75.463 Nominal Velocity of Propagation: VP (%) 66 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) 71.1554					
Nom. Attenuation:   Freq. (MHz) Attenuation (dB/100m)   1.000 1.969   Max. Operating Voltage - UL:   Voltage Description   300 V RMS Type CM   30 V RMS AWM2919   Max. Recommended Current: Description   10C temperature rise 2.1 Amps per conductor @ 25°C a	mbient				
Put Ups and Colors:					
Item # Putup	Ship Weight	Color	Notes	Item Desc	

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9841 060100	100 FT	4.300 LB	CHROME		1 PR #24 PE SH PVC
9841 0601000	1,000 FT	40.000 LB	CHROME	С	1 PR #24 PE SH PVC
9841 06010000	10,000 FT	380.000 LB	CHROME	С	1 PR #24 PE SH PVC
9841 060500	500 FT	20.000 LB	CHROME	С	1 PR #24 PE SH PVC
9841 0605000	5,000 FT	200.000 LB	CHROME		1 PR #24 PE SH PVC

Notes:

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C = CRATE REEL PUT-UP.

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