# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



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

For more Information please call

1-800-Belden1



# **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	<b>Conductor Material</b>
1	24	7x32	TC - Tinned Copper

#### Insulation

#### Insulation Material:

Insulation Material
PE - Polyethylene

# **Outer Shield**

#### **Outer Shield Material:**

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

## Outer Shield Drain Wire AWG:

AWG	Stranding	<b>Drain Wire Conductor Material</b>
24	7x32	TC - Tinned Copper

#### **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### **Overall Cabling**

Overall Nominal Diameter: 5.893 mm

#### Pair

## Pair Color Code Chart:

Color White/Blue and Blue/White

# Pair Lay Length & Direction:

Lay Length (mm)	Twists/ft. (twist/m)	Direction	
63.49975	15.749	Left Hand Lay	

## **Mechanical Characteristics (Overall)**

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)/Minor Axis:	63.500 mm		

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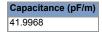
Applicable Specifications and Agency Compliance (Overall)				
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	CM			
CEC/C(UL) Specification:	CM			
AWM Specification:	UL Style 2919 (30 V 80°C)			
EU CE Mark:	Yes			
EU Directive 2000/53/EC (ELV):	Yes			
EU Directive 2002/95/EC (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			
Plenum/Non-Plenum				
Plenum (Y/N):	No			
Plenum Number:	82841, 89841			

## **Electrical Characteristics (Overall)**

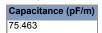
Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



**Nominal Velocity of Propagation:** 



**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

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DCR @ 20°C (Ohm/km)
11.1554
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Nom. Attenuation:

Attenuation (dB/100m) 0.6 (@ 1 MHz)

Max. Operating Voltage - UL:



Max. Recommended Current:

Current

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2.1 Amps per conductor @ 25°C

### **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 060500	152 MT	9.072 KG	CHROME	С	1 PR #24 PE SH PVC
9841 0605000	1,524 MT	86.183 KG	CHROME		1 PR #24 PE SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Date: 04-18-2008 Revision Number: 1

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