

## 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 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)

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 Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:

CM

NEC Articles:

800

CEC/(UL) Specification:

CM

AWM Specification:

UL Style 2919 (30 V 80°C)

## METRIC MEASUREMENT VERSION

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

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
MIL Order #39 (China RoHS):	Yes

## Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT1

## Suitability

Suitability - Indoor:	Yes
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## 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:

Capacitance (pF/m)
41.9968

## Nom. Capacitance Cond. to Other Conductor &amp; 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)
11.1554

## 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	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	100 FT	4.300 LB	CHROME		1 PR #24 PE SH PVC
9841 0601000	1,000 FT	40.000 LB	CHROME	C	1 PR #24 PE SH PVC
9841 06010000	10,000 FT	380.000 LB	CHROME	C	1 PR #24 PE SH PVC
9841 060500	500 FT	20.000 LB	CHROME	C	1 PR #24 PE SH PVC
9841 0605000	5,000 FT	200.000 LB	CHROME		1 PR #24 PE SH PVC

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**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 08-02-2013

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