

## 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	Conductor Material
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	Drain Wire Conductor Material
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)**

<b>Operating Temperature Range:</b>	-30°C To +80°C
<b>UL Temperature Rating:</b>	80°C
<b>Bulk Cable Weight:</b>	53.575 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	321.605 N
<b>Min. Bend Radius (Install)/Minor Axis:</b>	63.500 mm

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

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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:

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:

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

## Max. Operating Voltage - UL:

Voltage
300 V RMS
30 V RMS (UL AWM Style 2919)

## Max. Recommended Current:

Current
---------

## METRIC MEASUREMENT VERSION

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

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	C	1 PR #24 PE SH PVC
9841 060500	152 MT	9.072 KG	CHROME	C	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 Number: 1    Revision Date: 04-18-2008

© 2011 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.