

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

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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/C(UL) Specification:	CM
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
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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 & 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

METRIC MEASUREMENT VERSION

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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	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 06010000	3,048 MT	172.366 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	90.719 KG	CHROME		1 PR #24 PE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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