



Product: [9841](#)

RS485, 1 Pr #24 Str TC, PO Ins, OS+TC Brd, PVC Jkt, CM

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Product Description

RS-485, 1 Pair 24AWG (7x32) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(90%) Shield, PVC Outer Jacket, CM

Technical Specifications

Product Overview

Suitable Applications:	RS-485, DMX-512
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	1

Conductor Count:	2
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Insulation

Material	Nominal Wall Thickness
PE - Polyethylene	0.0225 in

Color Chart

Color
White/Blue & Blue/White

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	1	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	24
Braid	2	TC - Tinned Copper		90 %		

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.232 in	0.035 in

Construction and Dimensions

Cabling

Filler
Fibrous Polypropylene

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	3.4 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
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12.8 pF/ft	23 pF/ft
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Impedance

Nominal Characteristic Impedance
120 Ohm

High Frequency (Nominal/Typical)

Nom. Insertion Loss
0.6 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.6 ns/ft	66 %

Current

Element	Max. Recommended Current [A]
10C Temperature Rise	Per conductor @ 25°C Ambient (10C temperature rise): 2.1 A

Voltage

UL Description	UL Voltage Rating
Type CM	300 V RMS (UL type CM)
AWM 2919	30 V RMS (UL AWM 2919)

Electrical Characteristics Notes:	Attenuation @ 1 MHz: .6 dB/100 ft nominal
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Temperature Range

UL Temp Rating:	80°C (UL AWM Style 2919)
Operating Temp Range:	-30°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	36 lbs/1000ft
Max Recommended Pulling Tension:	72.3 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	2919 (30 V 80°C)
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Hazardous Locations:	Yes
Suitability - Indoor:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 (UL Loading)
CSA Flammability:	FT1
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS (CM)

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	82841, 89841

Part Number

Variants

Item #	Color	Putup Type	Length	UPC/EAN
9841.0030	Chrome	Reel	30 m	8719605022745
9841.011000	Chrome	Reel	1,000 m	8719605022752
9841.01152	Chrome	Reel	152 m	8719605022769
9841.011525	Chrome	Reel	1,525 m	8719605022776
9841.012000	Chrome	Reel	2,000 m	8719605022783
9841.01305	Chrome	Reel	305 m	8719605022790
9841.019999	Chrome	Reel	151 m	8719605022806
9841 060100	Chrome	Reel	100 ft	612825259442
9841 0601000	Chrome	Reel	1,000 ft	612825259459
9841 06010000	Chrome	Reel	10,000 ft	612825259466
9841 060500	Chrome	Reel	500 ft	612825259473
9841 0605000	Chrome	Reel	5,000 ft	612825259480
9841.K1305	Chrome	Reel	305 m	8719605022844
9841.031000	Violet	Reel	1,000 m	8719605022820
9841.03305	Violet	Reel	305 m	8719605022837
9841.02305	Yellow	Reel	305 m	8719605022813

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.319 Revision Date: 04-08-2020
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