



Product: [9841](#)

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

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Product Description

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

Technical Specifications

Suitable Applications:	RS-485, POS; Computer communications; Low Voltage Analog Signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Line Level Audio; Panel Wiring; serial communication (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy environments over long distance, etc.
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Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	1	24	7x32	TC - Tinned Copper

Insulation

Element	Material	Thickness	Color Code
Pair(s)	PE - Polyethylene	0.023 in	White/Blue Stripe & Blue/White Stripe

Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape + Braid	Bi-Laminate (Alum+Poly) + Tinned Copper (TC)	100% + 90%	24 AWG (7x32) TC

Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.035 in	0.232 in

Cable Diameter (Nominal):	0.232 in
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Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft	12.8 pF/ft	23 pF/ft	120 Ohm	66%	2.1 Amps per Conductor at 25°C (10°C Temperature Rise)

Nom Outer Shield DCR:	3.4 Ohm/1000ft
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High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Pair(s)	1 MHz	0.6 dB/100ft

Voltage

UL Voltage Rating
300 V (CM), 30 V (UL AWM 2919)

Temperature

UL Rating	Operating
80°C (UL AWM 2919)	-30°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
2.5 in	2.5 in

Max. Pull Tension:	72.3 lbs
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Bulk Cable Weight:	36 lbs/1000ft
Environmental Suitability:	Indoor
Flammability / Fire Resistance:	UL1685 (UL Loading), IEC 60332-1-2
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	2919
CEC / C(UL) Compliance:	CM
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	82841, 89841
Non-Plenum Number:	9841ZH
Update and Revision:	Revision Number: 0.381 Revision Date: 09-30-2020

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