



**Product:** [89842](#)

RS485, 2 Pr #24 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

## Product Description

RS-485, 2 Pair 24AWG (7x32) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(90%) Shield, FEP Outer Jacket, CMP

## 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)	2	24	7x32	TC - Tinned Copper

### Insulation

Element	Material	Thickness [in.]	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.023	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe

### Outer Shield Material

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

### Outer Jacket Material

Material	Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.014 in	0.305 in

Cable Diameter (Nominal):	0.305 in
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### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft	12 pF/ft	22 pF/ft	120 Ohm	76%	4 Amps per Conductor at 25°C

Nom Outer Shield DCR:	3.1 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

<b>UL Voltage Rating</b>
300 V (CMP)

### Temperature

UL Rating	Operating
150°C	-70°C to +200°C

### Bend Radius

Stationary Min.	Installation Min.
3.25 in	3.25 in

Max. Pull Tension:	68 lbs
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Bulk Cable Weight:	44 lbs/1000ft
Environmental Suitability:	Indoor, Oil Resistance
Flammability / Fire Resistance:	NFPA 262 Plenum Flame Test (UL910), FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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)
Non-Plenum Number:	9842
Notes:	Oil and Gas Resistant
Update and Revision:	Revision Number: 0.348 Revision Date: 07-31-2020

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