



Product: <u>89841</u> ☑

RS485, 1 Pr #24 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

Product Description

RS-485, 1 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.

Conductor

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

Insulation

Element	Material	Thickness	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.025 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
FEP - Fluorinated Et	hylene Propylene	0.014 in	0.202 in
Cable Diameter (Nominal):	0.202 in		

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 pF/ft	22 pF/ft	120 Ohm	76%	4 Amps per Conductor at 25°C
Nom Outer Shield DCR: 3.1 Ohm/1000ft						

High Frequency (Nominal/Typical)

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

Voltage



Temperature

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

Bend Radius

Stationary Min.	Installation Min.
2.25 in	2.25 in

Max. Pull Tension: 45.7 lbs

Bulk Cable Weight:	27 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
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)
Non-Plenum Number:	9841, 9841ZH
Notes:	Oil and Gas Resistant
Update and Revision:	Revision Number: 0.384 Revision Date: 09-30-2020

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