



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

Elemen	t Material	Thickness [in.]	Color Code
Pair(s)	PE - Polyethylene	0.023	White/Blue Stripe & Blue/White Stripe

Outer Shield Material

Shield Type	Shield Type Material		Drainwire Type	
Tape + Braid	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	

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Max. Current
Pair(s)	24 Ohm/1000ft	12.8 pF/ft	23 pF/ft	120 Ohm	2.1 Amps per Conductor at 25°C (10°C Temperature Rise)
Nom Outer Shield DCR: 3.4 Ohm/1000ft					

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 Tensio	n:	72.3 lbs

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:	СМ
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: 0.363 Revision Date: 07-31-2020

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