



# **Product Description**

RS-485, 2 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 (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy environments over long distance, etc.							
Conductor							
Element	Number of Eler	nent	AWG	Strandin	ng Material		
Pair(s)	2		24	7x32	TC - Tinned Copper		
Insulation							
Element	Material	Т	hickne	ss [in.]		Color Code	
Pair(s)	PE - Polyethyler	ie 0.	.022	۷	White/Blue Stripe & Blue/V	White Stripe, White/Orange Stripe & Orange/V	Vhite 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
PVC - Polyvinyl Chloride	0.035 in	0.340 in
Cable Diameter (Nominal):	0.340 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	12.8 pF/ft	23 pF/ft	120 Ohm	66%	2.1 Amps per Conductor at 25°C
Nom Outer Shield DCR: 2.2 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.		
3.5 in	3.5 in		
Max. Pull Tension: 87 lbs			

Bulk Cable Weight:	49 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)
Other Standard Compliance(s):	DMX-512
Plenum Number:	82842, 89842
Non-Plenum Number:	9841ZH
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