



Product: <u>129842</u> ☑

RS485, 2 Pr #24 Str TC, PE Ins, OS+TC Brd, PVC Jkt, AIA Armor, PVC Jkt,

CI

Product Description

RS-485, 2 Pair 24AWG (7x32) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(90%) Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, CM

Technical Specifications

Product Overview

Suitable Applications:	exposure to rodent, crush, or cut through force, burial, POS, serial communication (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy
	environments over long distance, outdoor such as solar, lighting, etc.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	2	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PE - Polyethylene	0.022 in (0.56 mm)	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe

Outer Shield

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

Inner Jacket

Material	Nom. Diameter		
PVC - Polyvinyl Chloride	0.340 in (8.64 mm)		

Armor

Armor Type & Material

AIA - Aluminum Interlock Armor

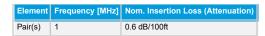
Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.045 in (1.1 mm)	0.620 in (15.7 mm)
Overall Cable Diameter (Nominal):	0.620 in (15.7	mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)		Nom. Velocity of Prop.	Max. Current	
Pair(s) 24 Ohm/1000ft (79 Ohm/km)		12.8 pF/ft (42.0 pF/m)	23 pF/ft	120 Ohm	66%	2.1 Amps per Conductor at 25°C	
Nom. Outer Shield DCR: 2.2 Ohm/1000ft (7.2 Ohm/km)							



Voltage

UL Voltage Rating 300 V (CM)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-30°C to +80°C
Table Notes:	-40C

Bend Radius

6.2 in (160 mm) 6.2 in	
Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	162 lbs/1000ft (241 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
NEC / UL Compliance:	Article 800, CM
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.312 Revision Date: 12-22-2023			
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