



Product: <u>129842</u> ☑

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

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# **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

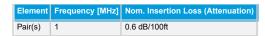
# Outer Jacket

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. Characteristic Impedence	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. Ou	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**

## **Standards and Compliance**

Stationary Min. Installation Min.

Environmental Suitability:	Indoor, 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: 0.218 Revision Date: 05-05-2023			
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