Product: 129841

RS485, 1 Pr #24 Str TC, PE Ins, OS+TC Brd, PVC Jkt, AIA Armor, PVC Jkt, CM

Product Description

RS-485, 1 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)	1	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PE - Polyethylene	0.023 in (0.58 mm)	White/Blue Stripe & Blue/White Stripe

Outer Shield

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

Inner Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.035 in (0.89 mm)	0.232 in (5.89 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)	0.512 in (13.0 mm)

Overall Cable Diameter (Nominal):	0.512 in (13.0 mm)

Electrical Characteristics

Electricals

Element	Nom. Characteristic Impedence	Max. Current
Pair(s)	120 Ohm	2.1 Amps per Conductor at 25ºC

High Frequency (Nominal/Typical)

Element	Frequency [MHz]
Pair(s)	1

Voltage

UL Voltage Rating
300 V (CM)

Mechanical Characteristics

Temperature

UL Temperature
80°C

Table Notes:	-40C CSA
Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	126 lbs/1000ft (188 kg/km)

Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 800, CM
CEC / C(UL) Compliance:	CMG

History

Update and Revision:	Revision Number: 0.114 Revision Date: 02-15-2024