



Product: [133106A](#)

RS-485, 1 Pr, 22AWG, Str TC, PE Ins, with OS, 1C 22AWG Str, PVC Ins, OA TC Brd, PVC Jkt, SIA, PVC Jkt, CM, PLTC, Sun Res

Product Description

RS-485, 120 Ohm, 1 pair 22AWG (7x30) tinned copper Datalene® insulation, with Foil Shield, 1 Conductor 22AWG (7x30) Tinned Copper, PVC Insulated, Overall 65% Tinned Copper Braid, PVC jacket, Steel Interlock Armor, PVC Jacket, CM, PLTC, SUN RES

Technical Specifications

Product Overview

Suitable Applications:	exposure to rodent, crush, or cut through force, burial, 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.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper
Conductor(s)	1	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.033 in (0.84 mm)	White/Orange Stripe & Orange/White Stripe	HDPE
Conductor(s)	PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	Blue/White Stripe	

Inner Shield

Element	Shield Type	Material	Coverage	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	Single conductor is not under tape

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Tinned Copper (TC)	65%	22 AWG (7x30) TC

Inner Jacket

Material
PVC - Polyvinyl Chloride

Armor

Armor Type & Material
SIA - Steel Interlock Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.045 in (1.1 mm)	0.580 in (14.7 mm)

Overall Cable Diameter (Nominal):	0.580 in (14.7 mm)
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Electrical Characteristics

Electricals

Element	Nom. Characteristic Impedance	Nom. Velocity of Prop.
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Pair(s)	120 Ohm	78%
Conductor(s)		

High Frequency (Nominal/Typical)

Element

Pair(s)

Voltage

UL Voltage Rating

300 V (CM, PLTC)

Mechanical Characteristics

Table Notes: -40C

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
NEC / UL Compliance:	Article 725, Article 800, CM, PLTC
CEC / C(UL) Compliance:	CMG HLBCD

History

Update and Revision: Revision Number: 0.58 Revision Date: 05-05-2023

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