



Product: [183107A](#)

RS485, 2 Pr #22 Str TC, PE Ins, OS+TC Brd, PVC Jkt, CCA Armor, PVC Jkt, PLTC

Product Description

RS-485, 2 Pair 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Inner Jacket, Continuous Corrugated Aluminum Armor, PVC Outer Jacket, CM, PLTC

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	Number of Element	Size	Stranding	Material
Pair(s)	2	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.025 in (0.64 mm)	0.665 in (16.9 mm)	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe	HDPE

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC
Braid	Tinned Copper (TC)	65%	

Inner Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	0.350 in (8.89 mm)

Armor

Armor Type & Material
CCAA - Continuously Corrugated Aluminum Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.055 in (1.4 mm)	0.665 in (16.9 mm)

Overall Cable Diameter (Nominal):	0.665 in (16.9 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Characteristic Impedance	Nom. Velocity of Prop.
Pair(s)	15 Ohm/1000ft (49 Ohm/km)	120 Ohm	78%

High Frequency (Nominal/Typical)

Element
Pair(s)

Voltage

UL Voltage Rating
300 V (CM, PLTC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-25°C to +105°C

Max. Pull Tension: 200 lbs (91 kg)

Bulk Cable Weight: 194 kg/km (130 lbs/1000ft)

Standards and Compliance

Environmental Suitability: Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance, Aerial

Flammability / Reaction to Fire: UL1685 Vertical Tray Flame Test, FT1

NEC / UL Compliance: Article 725, Article 800, CM, PLTC

CEC / C(UL) Compliance: CM

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: 0.65 Revision Date: 04-08-2022

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