



Product: <u>123107A</u> ☑

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

Request Sample

Product Description

RS-485, 2 Pair 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Inner Jacket, Aluminum Interlock 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.

Construction Details

Conductor

| Element | Element No. of Elements | | 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) | 0.079 in (2.0 mm) | White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe | HDPE |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Таре | 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 | Armor Thickness | Armor Material Diameter | |
|--------------------------------|--------------------|-------------------------|--|
| AIA - Aluminum Interlock Armor | 0.025 in (0.64 mm) | 0.560 in (14.2 mm) | |

Outer Jacket

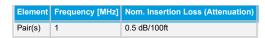
| Material | Nom. Thickness | Nom. Diameter |
|-----------------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.045 in (1.1 mm) | 0.690 in (17.5 mm) |
| Overall Cable Diameter (Nominal): | 0.690 in (17.5 | 5 mm) |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Nom. Characteristic Impedence | | Nom. Velocity of Prop. | Max. Current |
|---|-----------------------|----------------------------------|---|--|---------------------------|--------------------------------|
| Pair(s) 18.7 Ohm/1000ft 11 pF/ft (36 pF/m | | 11 pF/ft (36 pF/m) | 20.9 pF/ft 120 Ohm | | 78% | 2.7 Amps per Conductor at 25°C |
| Nom. Ou | ter Shield DCR: | 2.95 Ohm/1000ft (9.68 Ohm/km) | | | | |

High Frequency (Nominal/Typical)



Voltage

UL Voltage Rating

Mechanical Characteristics

Temperature

| UL Temperature | Operating | Installation |
|----------------|----------------|----------------|
| 60°C | -40°C to +60°C | -20°C To +60°C |
| Table Notes: | -40C | ; |

Bend Radius

Bulk Cable Weight:

Standards and Compliance

| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance |
|-----------------------------------|---|
| Flammability / Reaction to Fire: | UL 1685 UL Loading, IEEE 1202 |
| NEC / UL Compliance: | Article 725, Article 800, CM, PLTC |
| CEC / C(UL) Compliance: | CMG, HLBCD |
| 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: |
|----------------------|
|----------------------|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|-----------------|-------|------------|----------|--------------|----------|
| 123107A 0105000 | Black | Reel | 5,000 ft | 612825109631 | CZ |

172 lbs/1000ft

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