



**Product:** [3106A](#) 

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

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## 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, CM, PLTC, SUN RES and oil-resistant

## Technical Specifications

### Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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### Construction Details

#### Conductor

Element	Number of Element	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
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC
Braid	Tinned Copper (TC)	65%	

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.041 in (1.0 mm)	0.300 in (7.62 mm)

Overall Cable Diameter (Nominal):	0.300 in
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	14.7 Ohm/1000ft	11 pF/ft	20.9 pF/ft	120 Ohm	78%	2.7 Amps per Conductor at 25°C
Conductor(s)	14.7 Ohm/1000ft					
Nom. Outer Shield DCR:		2.8 Ohm/1000ft				

#### High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
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Pair(s)	1 MHz	0.5 dB/100ft
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#### Voltage

UL Voltage Rating
300 V (CM, PLTC)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

#### Bend Radius

Stationary Min.	Installation Min.
3.0 in (76 mm)	3.0 in

### Standards and Compliance

Environmental Suitability:	Indoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading, FT1, IEC 60332-1-2
NEC / UL Compliance:	Article 725, Article 800, CM, PLTC
CEC / C(UL) Compliance:	CM
CPR Euroclass:	Eca
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)

### Product Notes

Notes:	Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR46721.
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### History

Update and Revision:	Revision Number: 0.399 Revision Date: 12-15-2021
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