



Product: <u>3106A</u> ☑

RS485, 1 Pr #22 Str TC, PO Ins, IS and 1 C #22 Str TC, PVC, OA TC Brd, PVC Jkt, CM

😭 Request Sample

Product Description

RS-485, 1 Pair 22AWG (7x30) Tinned Copper, PO Insulation, Individuall Beldfoil®, 1 conductor 22AWG (7x30) Tinned Copper, PVC Insulation, Overall Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CM

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in		1
				1	
Condu	ctor Count:		3		

Insulation

Material	Material Trade Name
PE - Polyethylene (Foam)	Datalene®

Color Chart

Number	Color
1	White/Orange Ringband Stripe
2	Orange/White Ringband Stripe
3	Blue/White Ringband Stripe

Outer Shield Material

Туре	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Таре	1	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	22	7x30
Braic	2	TC - Tinned Copper		65 %			

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.3 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
14.7 Ohm/1000ft	2.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
11 pF/ft	20.9 pF/ft

Inductance

Nominal Inductance

0.203 µH/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
120 Ohm	120

High Frequency (Nominal/Typical)

Nom. Insertion Loss

0.5 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%] 78 %

Current

Max. Recommended Current [A] 2.7 Amps per conductor @ 25°C

Voltage

UL Voltage Rating	
300 V RMS (NEC Type PLTC)	
300 V RMS (NEC Type CM)	

Electrical Characteristics Notes:

Input Impedance/Unfitted Impedance .5 - 10 MHZ, 120 +-12 Ohms

Temperature Range

Non-UL Temp Rating:	60°C
UL Temp Rating:	60°C
Operating Temp Range:	-20°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	48 lbs/1000ft
Max Recommended Pulling Tension:	65 lbs
Min Bend Radius/Minor Axis:	3 in

Standards

NEC/(UL) Specification:	CM, PLTC
CEC/C(UL) Specification:	СМ
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):YesEU Directive 2002/96/EC (WEEE):YesEU Directive 2003/11/EC (BFR):YesEU Directive 2011/65/EU (ROH SII):YesEU Directive 2015/863/EU:Ubricetive 2003/11/EC (BFR)EU Directive Compliance:YesEU Ce Mark:YesEU RABSCompliance Date(yuyy):YesMI Order #39 (China RoHS):Yes		
EU Directive 2003/11/EC (BFR): Yes EU Directive 2011/65/EU (ROHS II): Yes EU Directive 2015/863/EU: Yes EU Directive Compliance: EU Directive 2003/11/EC (BFR) EU CE Mark: Yes EU RDHS Compliance Date (yyyy-mmde): 200510-01	EU Directive 2000/53/EC (ELV):	Yes
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EU RoHS Compliance Date (yyyy-mm-dd): 2005-10-01	EU Directive 2015/863/EU:	Yes
EU RoHS Compliance Date (yyyy-mm-dd): 2005-10-01	EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
	EU CE Mark:	Yes
MII Order #39 (China RoHS): Yes	EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
	MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading	
CSA Flammability:	FT1	
ISO/IEC Flammability:	IEC 60332-1-2	

UL voltage rating:

300 V RMS (NEC Type PLTC)

Plenum/Non-Plenum

Plenum (Y/N):

Part Number

Variants

ltem #	Color	Putup Type	Length	UPC/EAN
3106A.00152	Black	Reel	152 m	8719605005892
3106A.00305	Black	Reel	305 m	8719605005915
3106A 010500	Black	Reel	500 ft	612825141662
3106A 0101000	Black	Reel	1,000 ft	612825141655
3106A.001525	Black	Reel	1,525 m	8719605005908
3106A 0105000	Black	Reel	5,000 ft	612825141679
Footnote:			C -	CRATE REEL PUT

No

Footnote: N - FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Product Notes

Notes: Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR46				
History				
Update and Revision:	Revision Number: 0.325 Revision Date: 04-28-2020			

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