



Part Number: 3106A

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, Individually Beldfoil®, 1 conductor 22AWG (7x30) Tinned Copper, PVC Insulation, Overall Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CM

Technical Specifications

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

Conductor Count: 3

Insulation

Material	Material Trade Name
FHDPE - Foamed High Density Polyethylene	Datalene®

Color Chart

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

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	22	7x30 mm
Braid	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:	CM
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/96/EC (WEEE):	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 RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LSOH, 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):	No
---------------	----

Part Number

Variants

Item #	Color	UPC	Length	Footnote
3106A.00152	Black		152 m	
3106A.001525	Black		1,525 m	
3106A.00305	Black		305 m	
3106A 0101000	Black	612825141655	1,000 ft	C
3106A 010500	Black	612825141662	500 ft	C
3106A 0105000	Black	612825141679	5,000 ft	C N

Footnote: C - CRATE REEL PUT-UP.

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 YR46721.

History

Update and Revision: Revision Number: 0.310 Revision Date: 08-22-2019

© 2019 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.