

3106A Multi-Conductor - EIA Industrial RS-485 PLTC/CM



For more Information
please call
1-800-Belden1



Description

22 AWG stranded (7x30) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage) plus a tinned copper braid (90% coverage), drain wire, UV resistant PVC jacket.

Physical Characteristics (Overall):

Conductor:

AWG

# Conductors	# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	1.000	22	7x30	TC - Tinned Copper	0.030

Insulation:

Insulation Material

Ins Trade Name	Ins Material
Datalene®	FHDPE - Foam High Density Polyethylene

Outer Shield:

Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield Drain Wire AWG

AWG	Stranding	Drain Wire Conductor Material
22	7x30	TC - Tinned Copper

Outer Shield Drain Wire Diameter .030

Outer Jacket:

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling:

Overall Cabling Color Code Chart

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

Overall Nominal Diameter: .300 in.

Pair:

Pair Lay Length & Direction

Lay Length (in.)
3.000

Mechanical Characteristics (Overall):

Operating Temperature Range	-20°C To +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight:	48 lbs/1000 ft.
Max. Recommended Pulling Tension:	65 lbs.

3106A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

Min. Bend Radius (Install): 3 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	CM, PLTC OIL RES II
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	10/01/2005

Flame Test:

UL Flame Test	UL1685 UL Loading
CSA Flame Test	FT1

Suitability:

Sunlight Resistance	Passes UL 1581, 720 Hours
---------------------	---------------------------

Plenum/Non-Plenum:

Plenum (Y/N)	N
--------------	---

Electrical Characteristics (Overall):

Nom. Inductance

Inductance (μH/ft)
0.203

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
11.000

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
20.900

Nominal Velocity of Propagation

VP (%)
78

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
14.700

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.500

Max. Operating Voltage - UL

Voltage
300 V RMS

Max. Recommended Current

Current
2.7 Amps per conductor @ 25°C

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.800

Input/Unfitted Impedance

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	1.000			120

Notes (Overall):

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

3106A Multi-Conductor - EIA Industrial RS-485 PLTC/CM

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
3106A 0101000	1,000 FT	51.000 LB	BLACK	C	#22 FS PR,1#22PVCBRDPVC BLK
3106A 010500	500 FT	27.000 LB	BLACK	C	#22FS PR,1#22PVCBRDPVC BLK
3106A 0105000	5,000 FT	260.000 LB	BLACK	C N	#22 FS PR,1#22PVCBRDPVC BLK

Notes:

C = CRATE REEL PUT-UP.

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

Revision Number: 1 Revision Date: 05-14-2007

© 2007 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 herein 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 "AS IS" 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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs.(San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory; and China Ministry of Information Industry order#39 (China RoHS). EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure 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. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.