Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



3107T Multi-Conductor - EIA Industrial RS-485 PLTC/CMG

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 (65% coverage), drain wire, UV resistant LSZH jacket.

4

Physical Characteristics (Overall):

Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
2	22	7x30	TC - Tinned Copper	0.030

Total Number of Conductors

Insulation:

Insulation Material

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

Outer Shield:

Outer Shield Material

Layer #	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100.000
2		Braid	TC - Tinned Copper	65.000

Outer Shield Drain Wire AWG

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

Outer Jacket:

Outer Jacket Material

Outer Jacket Material				
LSZH- Low Smoke Zero Halogen				

Overall Cable:

Overall Cabling Color Code Chart

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

Overall Nominal Diameter: 0.49 in.

Pair:

Pair Lay Length & Direction



Mechanical Characteristics (Overall):

Operating Temperature Range	-20°C To +60°C
Bulk Cable Weight:	134 lbs/1000 ft.
Max. Recommended Pulling Tension:	80 lbs.
Min. Bend Radius/Minor Axis:	5 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards & Environmental Programs:

Page 1 of 3 06-10-2016

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



3107T Multi-Conductor - EIA Industrial RS-485 PLTC/CMG

CMG, PLTC		
CMG		
Yes		
45		
Yes		
UL1685 FT4 Loading		
FT4		
60332-3-22 (Category A)		
Yes		
No		

Electrical Characteristics (Overall):

Nom. Characteristic Impedance



Nom. Capacitance Conductor to Conductor



Nom. Capacitance Cond. to Other Conductor & Shield



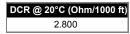
Nominal Velocity of Propagation



Nom. Conductor DC Resistance



Nominal Outer Shield DC Resistance



Nom. Attenuation

Description Fre	eq. (MHz) Sta	art Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.500

Max. Operating Voltage - UL

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

Max. Recommended Current

Current 2.7 Amps per conductor @ 25°C

Other Electrical Characteristic 1 Input Impedance/Unfitted Impedance .5 - 10 MHZ, 120 +-12 Ohms

Page 2 of 3 06-10-2016

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



3107T Multi-Conductor - EIA Industrial RS-485 PLTC/CMG

Revision Number: 0 Revision Date: 10-23-2014

© 2016 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within 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 this 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.