



# Part Number: 3105A

RS-485, (1 pr) 22 AWG (7x30) TC, FHDPE/PVC, Foil+TC Braid Shld, CM, PLTC

Request Sample

### **Product Description**

One 22 AWG pair stranded (7x30) tinned copper conductors, Datalene® (FHDPE) insulation, twisted pairs, overall Beldfoil® shield (100% coverage) plus a tinned copper braid (65% coverage), PVC jacket.

#### **Technical Specifications**

### **Physical Characteristics (Overall)**

Conduc	conductor				
AWG	Stranding	Material	Nominal	Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in		1
Condu	ctor Count:			2	
Conductor Size:		22 AWG			

#### Insulation

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

#### **Color Chart**

Number	Color
1	White/Blue Stripe and Blue/White 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	0.281 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
Shielding:	Foil + Braid(s)

#### Impedance

Nominal Characteristic Impedance
120 Ohm

#### 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:	44 lbs/1000ft
Max Recommended Pulling Tension:	60 lbs
Min Bend Radius/Minor Axis:	2.8 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

# Suitability

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

# Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading	
CSA Flammability:	FT1	
UL voltage rating:	300 V RMS (NEC Type PLTC)	

## Plenum/Non-Plenum

Plenum (Y/N):	No

#### **Part Number**

#### Variants

Item #	Color	Footnote
3105A.001000	Black	
3105A.00152	Black	
3105A.001525	Black	

3105A.00305	Black	
3105A.003050	Black	
3105A.00610	Black	
3105A 0101000	Black	С
3105A 010500	Black	С
3105A 0105000	Black	CN
3105A 01010000	Black	

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

#### © 2018 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.