



Product: 3108A ☑

RS485, 3 Pr #22 Str TC, PE Ins, OS+TC Brd, PVC Jkt, CM, PLTC, Oil

Resistant

# Request Sample

# **Product Description**

RS-485, 3 Pair 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CM, PLTC, and oil-resistant

## **Technical Specifications**

## **Product Overview**

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

## **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	3	22 AWG	7x30	TC - Tinned Copper

#### Insulation

E	lement	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes	
F	Pair(s)	PE - Polyethylene (Foam)	0.023 in (0.58 mm)	0.075 in (1.9 mm)	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe	HDPE	

## **Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC
Braid	Tinned Copper (TC)	65%	

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	0.374 in (9.50 mm)
Overall Cable Diameter (	Nominal):	0.374 in (9.50 mm)

## **Electrical Characteristics**

## Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	18.2 Ohm/1000ft	11 pF/ft (36 pF/m)	20.9 pF/ft	120 Ohm	78%	4.2 Amps per Conductor at 30°C
Nom. Ou	ter Shield DCR:	3.576 Ohm/1000ft (11.7	73 Ohm/km)			

#### High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	0.5 dB/100ft

## Voltage

UL Voltage Rating 300 V (CM, PLTC)

## **Mechanical Characteristics**

#### Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

#### **Bend Radius**

Stationary Min.	Installation Min.	
4.488 in (114.0 mm)	4.488 in (114.0 mm)	

Max. Pull Tension:	90 lbs (41 kg)	
Bulk Cable Weight:	63 lbs/1000ft	

## **Standards and Compliance**

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, Article 800, CM, PLTC
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## **Product Notes**

Notes:	Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR45287.

## History

Update and Revision:	Revision Number: 0.549 Revision Date: 04-30-2024

#### **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
3108A 0101000	Black	Reel	1,000 ft	612825141730	С
3108A 0102000	Black	Reel	2,000 ft	612825141747	С
3108A 0105000	Black	Reel	5,000 ft	612825141754	

## © 2024 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.

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

3108A 0101000 3108A 0102000