



Product: [3105Z](#)

RS-485, 1 Pr, 22AWG, Str TC, PE Ins, OS+TC Brd, LSZH-TS Jkt, CMG, PLTC, Sun Res

Product Description

MarineTuff RS-485, 120 Ohm, 1 pair 22AWG (7x30) tinned copper Datalene® insulaton, Overall Foil + 65% Tinned Copper Braid, LSZH Thermoset jacket, CMG, PLTC, SUN RES,ABS (21-2090759-PDA-DUP)

Technical Specifications

Product Overview

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

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.029 in (0.74 mm)	White/Blue Stripe & Blue/White Stripe	HDPE

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant, Thermoset)	0.100 in (2.54 mm)	0.400 in (10.2 mm)

Overall Cable Diameter (Nominal):	0.400 in (10.2 mm)
-----------------------------------	--------------------

Electrical Characteristics

Electricals

Element	Max. Conductor DCR	Nom. Characteristic Impedence	Nom. Velocity of Prop.
Pair(s)	14.7 Ohm/km (4.48 Ohm/1000ft)	120 Ohm	78%

High Frequency (Nominal/Typical)

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

High Frequency

Max./Min. Input Impedance (unFitted)
120 +/- 12

Voltage

UL Voltage Rating
300 V (CMG, PLTC)

Mechanical Characteristics

Temperature

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

Max. Pull Tension:	60 lbs (27 kg)
Bulk Cable Weight:	85 lbs/1000ft (130 kg/km)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.222 Revision Date: 05-05-2023
----------------------	--

Part Numbers

Variants

Item #	Color	UPC
3105Z 0105000	Black	612825141631

© 2023 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.