



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® insulation, 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.
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Construction Details

Conductor

Element	No. of Elements	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 Impedance	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:	Outdoor, 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: 0.315 Revision Date: 08-09-2023
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Part Numbers

Variants

Item #	Color	UPC	Footnote
3105Z 0105000	Black	612825141631	C N

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