



**Product:** [3107T](#)

RS485, 2 Pr #22 Str TC, PE Ins, OS+TC Brd, LSZH Jkt, CMG

### Product Description

MarineTuff RS-485, 2 Pair 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, LSZH Outer Jacket, CMG, PLTC, 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)	2	22 AWG	7x30	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.025 in (0.64 mm)	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/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)	0.125 in (3.18 mm)	0.494 in (12.5 mm)

Overall Cable Diameter (Nominal):	0.494 in (12.5 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Characteristic Impedence	Nom. Velocity of Prop.
Pair(s)	120 Ohm	78%

##### High Frequency (Nominal/Typical)

Element
Pair(s)

##### Voltage

UL Voltage Rating
300 V (CMG, PLTC)

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating

75°C	-20°C to +75°C
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Max. Pull Tension:	83 lbs (38 kg)
Bulk Cable Weight:	125 lbs/1000ft (186 kg/km)

## Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC
CEC / C(UL) Compliance:	CMG
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.306 Revision Date: 12-22-2023
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## Part Numbers

### Variants

Item #	Color	UPC	Footnote
3107T 0105000	Black	612825141716	C N

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