BELDEN

Product: 3108Z ☒

RS485, 3 Pr #22 Str TC, PE Ins, OS+TC Brd, LSZH-TS Jkt, CMG, PLTC

Product Description

MarineTuff RS-485, 3 Pair 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, LSZH-TS 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.

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	3	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.023 in (0.58 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
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)	0.468 in (11.9 mm)

Overall Cable Diameter (Nominal):	0.468 in (11.9 mm)

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

Max. Pull Tension:	93 lbs (42 kg)
Bulk Cable Weight:	110 lbs/1000ft (160 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, 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 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: 0.214 Revision Date: 05-05-2023

Part Numbers

Variants

Item #	Color	UPC
3108Z 0105000	Black	612825141792