



Product: [3105Z](#)

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

Product Description

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

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

Insulation

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

Outer Shield Material

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

Outer Jacket Material

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

Cable Diameter (Nominal): 0.400 in

Electrical Characteristics

Electricals

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

High Frequency (Nominal/Typical)

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

High Freq

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

Voltage

UL Voltage Rating
300 V (CMG, PLTC)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.
2.8 in

Max. Pull Tension:	60 lbs
Bulk Cable Weight:	85 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
Flammability / Fire Resistance:	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: 0.166 Revision Date: 03-16-2021
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