



Product: 9841ZH ☑

RS485, 1 Pr #24 Str TC, PE Ins, OS+TC Brd, LSZH Jkt, CM

Request Sample

Product Description

RS-485, 1 Pair 24AWG (7x32) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(90%) Shield, LSZH Outer Jacket, CM

Technical Specifications

Product Overview

Suitable Applications: exposure to rodent, crush, or cut through force, burial, POS, serial communication (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy environments over long distance, outdoor such as solar, lighting, etc.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PE - Polyethylene	0.028 in (0.71 mm)	White/Blue Stripe & Blue/White Stripe, White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	90%	

Outer Jacket

Mater	ial	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Ha	logen (Flame Retardant)	0.035 in (0.89 mm)	0.258 in (6.55 mm)
Overall Cable Diameter (Nominal):	0.258 in (6.55 mm)		

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	24.0 Ohm/1000ft (78.7 Ohm/km)	14.5 pF/ft (47.6 pF/m)	26 pF/ft	120 Ohm	66%	2.1 Amps per Conductor at 25°C

High Frequency (Nominal/Typical)



Voltage

UL Voltage Rating 300 V (CMG)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-20°C to 75°C

Max. Pull Tension:	72.3 lbs (32.8 kg)
Bulk Cable Weight:	33 lbs/1000ft (49 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 FT4 Loading
NEC / UL Compliance:	Article 800, CMG
AWM Compliance:	AWM 21088
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

Pavisian Number 0.276 Pavisian Data 02.45 2024
Revision: Revision Number: 0.276 Revision Date: 02-15-2024

Part Numbers

Variants

Item #	Color	UPC
9841ZH 060500	Chrome	612825382591

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