



**Product:** [9841ZH](#)

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

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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.
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Construction Details

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

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

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

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.035 in (0.89 mm)	0.258 in (6.55 mm)

Overall Cable Diameter (Nominal):	0.258 in (6.55 mm)
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Electrical Characteristics

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)

Element
Pair(s)

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:	UL 1685 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

Update and Revision:	Revision Number: 0.273 Revision Date: 05-05-2023
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Part Numbers

Variants

Item #	Color	UPC
9841ZH 060500	Chrome	612825382591

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