



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

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.
------------------------	---

Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	1	24	7x32	TC - Tinned Copper

Insulation

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

Outer Shield Material

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

Outer Jacket Material

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

Cable Diameter (Nominal): 0.258 in

Electricals

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

High Frequency (Nominal/Typical)

Element
Pair(s)

Voltage

UL Voltage Rating
300 V (CMG)

Temperature

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

Bend Radius

Stationary Min.
2.5 in

Max. Pull Tension:	72.3 lbs
Bulk Cable Weight:	33 lbs/1000ft
Environmental Suitability:	Indoor

Flammability / Fire Resistance:	UL1685 FT4 Loading
NEC / UL Compliance:	Article 800, CMG
AWM Compliance:	21088
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Update and Revision:	Revision Number: 0.257 Revision Date: 09-30-2020

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.