



Product: [533105A](#)

RS-485, 1 Pr, 22AWG, Str TC, PE Ins, OS+TC Brd, PVC Jkt, SIA, HDPE Jkt

Product Description

RS-485, 120 Ohm, 1 pair 22AWG (7x30) tinned copper Datalene® insulaton, Overall Foil + 65% Tinned Copper Braid, PVC Jacket, Steel Interlock Armor, HDPE jacket

Technical Specifications

Product Overview

Suitable Applications:	exposure to rodent, crush, or cut through force, burial, 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	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.029 in (0.74 mm)	White/Blue Stripe & Blue/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%	

Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.281 in (7.14 mm)

Armor

Armor Type & Material
SIA - Steel Interlock Armor

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PE - Polyethylene	0.045 in (1.1 mm)	0.564 in (14.3 mm)

Overall Cable Diameter (Nominal):	0.564 in (14.3 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

Voltage Rating

300 V

History

Update and Revision:	Revision Number: 0.57 Revision Date: 02-15-2024
----------------------	---

© 2025 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.