



Product: [9463](#)

Blue Hose®, 1 Pr #20 Str TC, PE Ins Blu, Clr, Foil+TC Brd, PVC Jkt, CM

[Request Sample](#)

Product Description

Blue Hose® for Data Highway Plus, 1 Pair 20AWG (7x28) Tinned Copper, PE Insulation Blue & Clear, Overall Beldfoil®+Tinned Copper Braid(55%) Shield, Blue PVC Outer Jacket, CM

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, Allen Bradley Data Highway communication interface between PLC processors, I/O devices, operator interfaces, computers and other intelligent devices, PLC processor interlocking, peer-to-peer messaging, remote programming, troubleshooting, I/O updates, etc.
------------------------	---

Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	1	20	7x28	TC - Tinned Copper

Insulation

Element	Material	Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PE - Polyethylene	0.019 in	0.078	Clear & Blue	Twinax with rod fillers

Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape + Braid	Bi-Laminate (Alum+Poly) + Tinned Copper (TC)	100% + 55%	20 AWG (7x28) TC

Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.037 in	0.238 in

Cable Diameter (Nominal):	0.238 in
---------------------------	----------

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Nom. Velocity of Prop.
Pair(s)	9.5 Ohm/1000ft	19.7 pF/ft	37 pF/ft	36 pF/ft	78 Ohm	66%

Nom. Outer Shield DCR:	4.1 Ohm/1000ft
------------------------	----------------

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Pair(s)	1 MHz	0.6 dB/100ft
	10 MHz	2.1 dB/100ft
	50 MHz	5.0 dB/100ft
	100 MHz	7.5 dB/100ft
	200 MHz	11.0 dB/100ft
	400 MHz	16.0 dB/100ft

Voltage

UL Voltage Rating

300 V (CM, CL2), 300 V (UL AWM 2464)

Mechanical Characteristics

Temperature

UL Rating	Operating	Installation	Storage
80°C (UL AWM 2464)	-40°C to +80°C	-40°C To +80°C	-40°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
2.4 in	2.4 in

Max. Pull Tension:	48 lbs
Bulk Cable Weight:	36 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Sunlight Resistance
Flammability / Fire Resistance:	UL1685 UL Loading, IEC 60332-1-2
NEC / UL Compliance:	Article 725, Article 800, CM, CL2
AWM Compliance:	2464
CEC / C(UL) Compliance:	CM
CPR Euroclass:	Eca
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)
Other Standard Compliance(s):	P-7K-SC-182141-MSHA, Allen Bradley Part No. 1770-CD
Plenum Number:	89463

History

Update and Revision:	Revision Number: 0.406 Revision Date: 07-02-2021
----------------------	--

© 2021 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.