



**Product:** [9463F](#)

Blue Hose®, 1 Pr #20 Str TC, PE Ins Blu, Clr, Foil+TC Brd, PVC Jkt, High Flex CM, AWM 2464

[Request Sample](#)

## Product Description

Blue Hose® for Data Highway Plus, 1 Pair 20AWG (42x36) Tinned Copper, PE Insulation Blue & Clear, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, Blue PVC Outer Jacket, High Flex, CM, AWM 2464

## Technical Specifications

### Product Overview

Suitable Applications:	robotic, 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.
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	20 AWG	42x36	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PE - Polyethylene	0.0185 in (0.470 mm)	0.075 in (1.9 mm)	Clear & Blue	Twinax with rod fillers

#### Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	85%

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.033 in (0.84 mm)	0.243 in (6.17 mm)

Overall Cable Diameter (Nominal):	0.243 in
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### Electrical Characteristics

#### Electricals

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

#### 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)

## Mechanical Characteristics

### Temperature

UL Temperature	Operating
80°C	-40°C to 80°C

### Bend Radius

Stationary Min.	Installation Min.
2.5 in (64 mm)	2.5 in

## Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-7K-SC-182141-MSHA

## History

Update and Revision:	Revision Number: 0.278 Revision Date: 12-15-2021
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