



**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

**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.

#### Conductor

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

#### Insulation

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

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.033 in	0.243 in

Cable Diameter (Nominal): 0.243 in

#### 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, CI2)

#### Temperature

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

#### Bend Radius

Stationary Min.	Installation Min.
2.5 in	2.5 in

Max. Pull Tension:	40 lbs
Bulk Cable Weight:	34 lbs/1000ft
Environmental Suitability:	Indoor
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, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-7K-SC-182141-MSHA
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