



REPRESENTATIVE IMAGE

**Product:** [129463](#)

Blue Hose®, 1 Pr #20 Str TC, PE Ins Blu, Clr, Foil+TC Braid Shld, PVC Jkt, AIA Armor, 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, PVC Inner Jacket, Aluminum Interlock Armor, Blue PVC Outer Jacket, CM

## Technical Specifications

**Suitable Applications:** exposure to rodent, crush, or cut through force, 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	7x28	TC - Tinned Copper

### Insulation

Element	Material	Thickness [in.]	Color Code	Notes
Pair(s)	PE - Polyethylene	0.019	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

### Inner Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.238 in

### Aarmor

Armor Type & Material
AIA - Aluminum Interlock Armor

### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in	0.550 in

Cable Diameter (Nominal): 0.550 in

### 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 dB/100ft
	100 MHz	7.5 dB/100ft
	200 MHz	11 dB/100ft
	400 MHz	16 dB/100ft

Voltage

UL Voltage Rating
300 V (CM, CL2)

Temperature

UL Rating	Operating
60°C	-40°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
6.5 in	6.5 in

Max. Pull Tension:	200 lbs
Bulk Cable Weight:	133 lbs/1000ft
Environmental Suitability:	Indoor, Sunlight Resistance
Flammability / Fire Resistance:	UL1685 UL Loading, FT4
NEC / UL Compliance:	Article 725, Article 800, CM, CL2
CEC / C(UL) Compliance:	CM, CMG, HLBCD
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
Other Standard Compliance(s):	Allen Bradley P/N 1770-CD
Update and Revision:	Revision Number: 0.394 Revision Date: 09-30-2020

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