



Product: [189463](#)

Blue Hose®, 1 Pr #20 Str TC, PE Ins Blu,Clr, Foil+TC Braid Shld, PVC Jkt, CCA Armor, PVC Jkt, PLTC

[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, CCA Interlock Armor, Blue PVC Outer Jacket, PLTC

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	Color Code	Notes
Pair(s)	PE - Polyethylene	0.019 in	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

Armor

Armor Type & Material
CCA - Continuously Corrugated Aluminum Armor

Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in	0.515 in

Cable Diameter (Nominal): 0.515 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 (PLTC)

Temperature

UL Rating	Operating
60°C	-20°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
6 in	6 in

Max. Pull Tension:	205 lbs
Bulk Cable Weight:	121 lbs/1000ft
Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Fire Resistance:	UL1685 UL Loading
NEC / UL Compliance:	Article 725, PLTC
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
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