



**Product:** [89463](#)

Blue Hose®, 1 Pr #20 Str TC, FEP Ins Blu,Clr, Foil+TC Brd, FEP Jkt, CMP

[Request Sample](#)

### Product Description

Blue Hose® for Data Highway Plus, 1 Pair 20AWG (7x28) Tinned Copper, FEP Insulation Blue & Clear, Overall Beldfoil®+Tinned Copper Braid(76%) Shield, FEP Inner Jacket, CCA Interlock Armor, Blue PVC Outer Jacket, CMP

### Technical Specifications

**Suitable Applications:** extreme temp, exposure to oil and gasoline, 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	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.0175 in	0.073	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% + 76%	20 AWG (7x28) TC

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.015 in	0.203 in

Cable Diameter (Nominal): 0.203 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	69%

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 (CMP, CL2P)

#### Temperature

UL Rating	Operating
200°C	-70°C to +200°C

**Bend Radius**

Stationary Min.	Installation Min.
2.5 in	2.5 in

Max. Pull Tension:	48 lbs
Bulk Cable Weight:	36 lbs/1000ft
Environmental Suitability:	Indoor
Flammability / Fire Resistance:	NFPA 262, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 725, Article 800, CMP, CL2P
CEC / C(UL) Compliance:	CMP
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):	Allen Bradley P/N 1770-CD High Temp
Non-Plenum Number:	9463
Update and Revision:	Revision Number: 0.364 Revision Date: 09-30-2020

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