



**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

#### Product Overview

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.
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#### Construction Details

##### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	20 AWG	7x28	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.0175 in (0.445 mm)	0.073 in (1.9 mm)	Clear & Blue	Twinax with rod fillers

##### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC
Braid	Tinned Copper (TC)	76%	

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.015 in (0.38 mm)	0.203 in (5.16 mm)

Overall Cable Diameter (Nominal): 0.203 in (5.16 mm)

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedence	Nom. Velocity of Prop.
Pair(s)	9.5 Ohm/1000ft	19.7 pF/ft (64.6 pF/m)	37 pF/ft	78 Ohm	69%

Nom. Outer Shield DCR: 4.1 Ohm/1000ft (13 Ohm/km)

##### High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	0.6 dB/100ft
	10	2.1 dB/100ft
	50	5 dB/100ft
	100	7.5 dB/100ft
	200	11 dB/100ft
	400	16 dB/100ft

##### Voltage

<b>UL Voltage Rating</b>
300 V (CMP, CL2P)

## Mechanical Characteristics

### Temperature

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

### Bend Radius

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

Max. Pull Tension:	48 lbs (22 kg)
Bulk Cable Weight:	34 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, Article 800
CEC / C(UL) Compliance:	CMP
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	Allen Bradley Part No. 1770-CD
Non-Plenum Number:	9463

## History

Update and Revision:	Revision Number: 0.487 Revision Date: 01-20-2023
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
89463 0061000	Blue, Light	Reel	1,000 ft	612825220978
89463 0062500	Blue, Light	Reel	2,500 ft	612825220985

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