



**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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