


Product: [9463](#)

Blue Hose®, 1 Pr #20 Str TC, PE Ins Blu, Clr, Foil+TC Brd, PVC Jkt, CM

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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, Blue PVC Outer Jacket, CM

Technical Specifications
Product Overview

Suitable Applications: 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.

Construction Details
Conductor

| Element | No. of Elements | 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) | PE - Polyethylene | 0.019 in (0.48 mm) | 0.0755 in (1.92 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) | 60% | |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.037 in (0.94 mm) | 0.238 in (6.05 mm) |

Outer Jacket1 Table Notes: Jacket OD +/- 0.003

Overall Cable Diameter (Nominal): 0.238 in (6.05 mm)

Electrical Characteristics
Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Shield | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedance | Nom. Delay | Nom. Inductance | Nom. Velocity of Prop. |
|---------|--------------------|-------------------------------|---------------------------------|---|-------------------------------|------------|----------------------------------|------------------------|
| Pair(s) | 9.5 Ohm/1000ft | 19.7 pF/ft (64.6 pF/m) | 37 pF/ft (120 pF/m) | 36 pF/ft (120 pF/m) | 78 Ohm | 1.54 ns/ft | 0.12 μ H/ft (0.39 μ H/m) | 66% |

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 | 5.0 dB/100ft |
| | 100 | 7.5 dB/100ft |
| | 200 | 11.0 dB/100ft |

400

16.0 dB/100ft

Voltage**UL Voltage Rating**

300 V (CM, CL2), 300 V (UL AWM 2464)

Mechanical Characteristics**Temperature**

| UL Temperature | Operating | Installation | Storage |
|----------------|----------------|----------------|----------------|
| 80°C | -40°C to +80°C | -40°C To +80°C | -40°C to +80°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.4 in (61 mm) | 2.4 in (61 mm) |

Max. Pull Tension: 48 lbs (22 kg)

Bulk Cable Weight: 36 lbs/1000ft

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance |
| Flammability / Reaction to Fire: | UL 1685 UL Loading, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca; CPR UKCA Class: Eca |
| NEC / UL Compliance: | Article 725, Article 800, CM, CL2 |
| AWM Compliance: | AWM 2464 |
| CEC / C(UL) Compliance: | CM |
| 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 |
| Other Standard Compliance(s): | P-7K-SC-182141-MSHA, Allen Bradley Part No. 1770-CD |
| Plenum Number: | 89463 |

History

Update and Revision: Revision Number: 0.615 Revision Date: 09-07-2025

Part Numbers**Variants**

| Item # | Color | Putup Type | Length | UPC/EAN | Footnote |
|---------------|--------------|------------|----------|---------------|----------|
| 9463.0030 | Blue | Reel | 30 m | 8719605020550 | |
| 9463.00U152 | Blue | UnReel | 152 m | 8719605020574 | |
| 9463.01152 | Blue | Reel | 152 m | 8719605020598 | |
| 9463.00305 | Blue | Reel | 305 m | 8719605020567 | |
| 9463.00U305 | Blue | UnReel | 305 m | 8719605020581 | |
| 9463.K0305 | Blue | Reel | 305 m | 8719605020666 | |
| 9463.001000 | Blue | Reel | 1,000 m | 8719605020536 | |
| 9463.K01000 | Blue | Reel | 1,000 m | 8719605189226 | |
| 9463.001829 | Blue | Reel | 1,829 m | 8719605020543 | |
| 9463 J22100 | Blue, Strong | Reel | 100 ft | 612825253549 | |
| 9463 J22500 | Blue, Strong | Reel | 500 ft | 612825253570 | |
| 9463 J22U500 | Blue, Strong | UnReel | 500 ft | 612825253532 | |
| 9463 J221000 | Blue, Strong | Reel | 1,000 ft | 612825253556 | C |
| 9463 J22U1000 | Blue, Strong | UnReel | 1,000 ft | 612825253525 | |
| 9463 J2212000 | Blue, Strong | Reel | 2,000 ft | 612825253563 | C Y |
| 9463 J226000 | Blue, Strong | Reel | 6,000 ft | 612825253587 | C Z |
| 9463.02305 | Brown | Reel | 305 m | 8719605020604 | |
| 9463 0011000 | Brown | Reel | 1,000 ft | 612825253594 | |
| 9463 00112000 | Brown | Reel | 2,000 ft | 612825253617 | C Y |
| 9463.023050 | Brown | Reel | 3,050 m | 8719605020611 | |
| 9463 0016000 | Brown | Reel | 6,000 ft | 612825253624 | C Z |

| | | | | | |
|---------------|--------|------|-----------|--------------|-----|
| 9463 00110000 | Brown | Reel | 10,000 ft | 612825253600 | C Z |
| 9463 0031000 | Orange | Reel | 1,000 ft | 612825253631 | C |
| 9463 00312000 | Orange | Reel | 2,000 ft | 612825253655 | C Y |
| 9463 0036000 | Orange | Reel | 6,000 ft | 612825253662 | C Z |
| 9463 00310000 | Orange | Reel | 10,000 ft | 612825253648 | C Z |
| 9463 0071000 | Violet | Reel | 1,000 ft | 612825253679 | C |
| 9463 0076000 | Violet | Reel | 6,000 ft | 612825253686 | C Z |

Footnote: C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN., Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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