



Product: [9463](#)

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

[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, 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) |

|                                   |                     |
|-----------------------------------|---------------------|
| 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 Impedence | Nom. Velocity of Prop. |
|------------------------|----------------------------|-------------------------------|---------------------------------|---|-------------------------------|------------------------|
| Pair(s)                | 9.5 Ohm/1000ft             | 19.7 pF/ft (64.6 pF/m)        | 37 pF/ft                        | 36 pF/ft  | 78 Ohm                        | 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: 0.614 Revision Date: 02-03-2025 |
|----------------------|--|

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 |          |
| 9463.001000   | Blue         | Reel       | 1,000 m   | 8719605020536 |          |
| 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 |

© 2025 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.