



Product: [9463DB](#)

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

[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 PE Outer Jacket, DIR BUR

Technical Specifications

Suitable Applications: direct burial, 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) | PE - Polyethylene | 0.019 in | 0.0755 | 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% + 55% | 20 AWG (7x28) TC |

Outer Jacket Material

| Material | Thickness | Nom. Diameter |
|-------------------|-----------|---------------|
| PE - Polyethylene | 0.032 in | 0.240 in |

Cable Diameter (Nominal): 0.240 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 | 66% |

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 | 5.0 dB/100ft |
| | 100 MHz | 7.5 dB/100ft |
| | 200 MHz | 11.0 dB/100ft |
| | 400 MHz | 16.0 dB/100ft |

Temperature

| Operating |
|---------------|
| -40°C to 80°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, Outdoor, Burial |
| 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) |
| Update and Revision: | Revision Number: 0.265 Revision Date: 09-30-2020 |

© 2020 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.