



Product: [9463F](#)

Blue Hose®, 1 Pr #20 Str TC, PE Ins Blu,Clr, Foil+TC Brd, PVC Jkt, High Flex CM, AWM 2464

[Request Sample](#)

Product Description

Blue Hose® for Data Highway Plus, 1 Pair 20AWG (42x36) Tinned Copper, PE Insulation Blue & Clear, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, Blue PVC Outer Jacket, High Flex, CM, AWM 2464

Technical Specifications

Product Overview

Suitable Applications:	robotic, 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	No. of Elements	Size	Stranding	Material
Pair(s)	1	20 AWG	42x36	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PE - Polyethylene	0.0185 in (0.470 mm)	0.075 in (1.9 mm)	Clear & Blue	Twinax with rod fillers

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	85%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.033 in (0.84 mm)	0.243 in (6.17 mm)

Overall Cable Diameter (Nominal):	0.243 in (6.17 mm)
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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 (31 Ohm/km)	19.7 pF/ft (64.6 pF/m)	37 pF/ft	78 Ohm	66%

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)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-40°C to 80°C

Bend Radius

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

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	34 lbs/1000ft (51 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: 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
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-7K-SC-182141-MSHA

History

Update and Revision:	Revision Number: 0.290 Revision Date: 02-15-2024
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Part Numbers

Variants

Item #	Color	UPC	Footnote
9463F J221000	Strong Blue	612825253716	C

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