

Part Number: 9463

Blue Hose®, 1 Pr #20 Str TC, PO Ins Blu,Wht, OS+TC Brd, PVC Jkt, CM

Request Sample

Product Description

Blue Hose® for Data Highway Plus, 1 Pair 20AWG (7x28) Tinned Copper, PO Insulation Blu,Wht Color Code, Overall Beldfoil®+Tinned Copper Braid(55%) Shield, Blue PVC Outer Jacket, CM

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
20	7x28	TC - Tinned Copper	0.038 in	1

Conductor Count:	2

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.078 in

Color Chart

Number	Color
1	Clear & Blue

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	20	7x28H mm
Braid	2	TC - Tinned Copper		55 %			

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.238 in

Construction and Dimensions

Stranding

Twists	Diameter
2.75 twist/ft	0.154 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/1000ft	4.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
19.7 pF/ft	36 pF/ft

Inductance

Nominal Inductance

0.12 µH/ft

Impedance

Nominal Characteristic Impedance
78 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100m
10 MHz	2.1 dB/100m
50 MHz	5 dB/100m
100 MHz	7.5 dB/100m
200 MHz	11 dB/100m
400 MHz	16 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

Voltage

UL Voltage Rating
300 V RMS (UL AWM Style 2464)
300 (NEC Type CM) V RMS
300 V RMS (NEC Type CL2)

Electrical Characteristics Notes:	DC Resistance Unbalanced: .77 Ohms/1000 ft Max

Temperature Range

Installation Temp Range:	-40°C To +80°C
UL Temp Rating:	80°C (UL AWM Style 2464)
Storage Temp Range:	-40°C To +80°C
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	36 lbs/1000ft
Max Recommended Pulling Tension:	48 lbs
Min Bend Radius/Minor Axis:	2.4 in

Standards

Customer Part Number Reference Spec:	Allen Bradley P/N 1770-CD
NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CM
UL AWM Style:	UL Style 2464 (300 V 80°C)
CPR Euroclass:	Eca
PMSHA Specification:	P-7K-SC-182141

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS (UL AWM Style 2464)

Plenum/Non-Plenum

Plenum Number:	89463

Part Number

Variants

Item #	Color	UPC	Length	Footnote
9463.001000	Blue		1,000 m	
9463.001829	Blue		1,829 m	
9463.0030	Blue		30 m	
9463.00305	Blue		305 m	
9463.00U152	Blue		152 m	
9463.00U305	Blue		305 m	
9463.01152	Blue		152 m	
9463.K0305	Blue		305 m	
9463 J22100	Blue, Strong	612825253549	100 ft	
9463 J221000	Blue, Strong	612825253556	1,000 ft	C
9463 J2212000	Blue, Strong	612825253563	2,000 ft	C Y
9463 J22500	Blue, Strong	612825253570	500 ft	
9463 J226000	Blue, Strong	612825253587	6,000 ft	C Z
9463 J22U1000	Blue, Strong	612825253525	1,000 ft	
9463 J22U500	Blue, Strong	612825253532	500 ft	
9463.02305	Brown		305 m	
9463.023050	Brown		3,050 m	
9463 0011000	Brown	612825253594	1,000 ft	
9463 00110000	Brown	612825253600	10,000 ft	C Z
9463 00112000	Brown	612825253617	2,000 ft	C Y
9463 0016000	Brown	612825253624	6,000 ft	C Z
9463.031829	Orange		1,829 m	
9463.03305	Orange		305 m	
9463 0031000	Orange	612825253631	1,000 ft	C
9463 00310000	Orange	612825253648	10,000 ft	C Z
9463 00312000	Orange	612825253655	2,000 ft	C Y
9463 0036000	Orange	612825253662	6,000 ft	C Z
9463.041829	Violet		1,829 m	
9463.04305	Violet		305 m	
9463 0071000	Violet	612825253679	1,000 ft	C
9463 0076000	Violet	612825253686	6,000 ft	C Z

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.
Footnote:	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'.

History

Update and Revision:	Revision Number: 0.336 Revision Date: 08-22-2019

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