



**Part Number:** 9463

Blue Hose®, (1 pr) 20 AWG (7x28) TC, PE/PVC, Foil+TC  
Braid Shld, CM

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## Product Description

One 20 AWG pair stranded (7x28) tinned copper conductors, polyethylene insulation, overall Beldfoil® (100% coverage) plus tinned copper braid shield (55% coverage), PVC jacket.

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## Product Specifications

### AG.Filter Attributes

Total Number of Conductors:	2
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## Technical Specifications

### AG\_0401

UL Flammability:	UL1685 UL Loading
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### APAC Standard

MII Order #39 (China RoHS):	Yes
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### Applicable Patents

Patent:	<a href="http://www.belden.com/p">http://www.belden.com/p</a>
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### Bend Radius

Min Bend Radius/Minor Axis:	2.4 in
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## CCB-Sub-Part Number

Plenum Number:	89463
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## Contact Information

PHONE_NUM:	1-800-Belden1
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## EU Directive

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

## General Electrical Parameters

Other Electrical Characteristic 1:	DC Resistance Unbalanced: .77 Ohms/1000 ft Max
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## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CM
Customer Part Number Reference Spec:	Allen Bradley P/N 1770-CD
NEC/(UL) Specification:	CL2^CM
PMSHA Specification:	P-7K-SC-182141
UL AWM Style:	UL Style 2464 (300V 80°C)

## Use

Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	48 lbs

### Impedance:

#### Nominal Characteristic Impedance

78 Ohm
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### Inductance:

#### Nominal Inductance

0.12 $\mu$ H/ft
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### Conductor DCR:

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

**Color Chart 1:**

Number	Color
1	Clear & Blue

**Delay:**

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	1.54 ns/ft	66 %

**Voltage:**

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

**High Freq:**

Frequency [MHz]
1 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz

**Capacitance:**

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

**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

**Stranding:**

Twists	Diameter
2.75 twist/ft	0.154 mm

**Insulation:**

Material	Nominal Diameter
PE - Polyethylene	0.078 in

**Outerjacket 1:**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.238 in

**Conductor:**

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

**Other Electrical Information:**

Other Electrical Characteristic 1	DC Resistance Unbalanced: .77 Ohms/1000 ft Max
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**Outershield 1:**

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

**Product Variants**

Part Number	Color	Put-Up Type	Length
9463	BROWN	Reel	10000 ft
9463	BROWN	Reel	3048 m
9463 00110000	BROWN	Reel	10000 ft
9463	BROWN	Reel	1000 ft
9463	BROWN	Reel	305 m
9463 0011000	BROWN	Reel	1000 ft

9463	BROWN	Reel	2000 ft
9463 00112000	BROWN	Reel	2000 ft
9463	BROWN	Reel	6000 ft
9463 0016000	BROWN	Reel	6000 ft
9463	ORANGE	Reel	10000 ft
9463 00310000	ORANGE	Reel	10000 ft
9463	ORANGE	Reel	1000 ft
9463	ORANGE	Reel	305 m
9463 0031000	ORANGE	Reel	1000 ft
9463	ORANGE	Reel	2000 ft
9463 00312000	ORANGE	Reel	2000 ft
9463	ORANGE	Reel	6000 ft
9463	ORANGE	Reel	1829 m
9463 0036000	ORANGE	Reel	6000 ft
9463	VIOLET	Reel	1000 ft
9463	PURPLE	Reel	305 m
9463 0071000	VIOLET	Reel	1000 ft
9463	VIOLET	Reel	6000 ft
9463	PURPLE	Reel	1829 m
9463 0076000	VIOLET	Reel	6000 ft
9463	BLUE, STRONG	Reel	1000 ft
9463	STRONG BLUE	Reel	305 m
9463 J221000	BLUE, STRONG	Reel	1000 ft
9463	BLUE, STRONG	Reel	100 ft
9463	STRONG BLUE	Reel	30 m
9463 J22100	BLUE, STRONG	Reel	100 ft
9463	BLUE, STRONG	Reel	2000 ft
9463	STRONG BLUE	Reel	3658 m
9463 J2212000	BLUE, STRONG	Reel	2000 ft
9463	BLUE, STRONG	Reel	500 ft
9463	STRONG BLUE	Reel	152 m
9463 J22500	BLUE, STRONG	Reel	500 ft
9463	BLUE, STRONG	Reel	6000 ft
9463	STRONG BLUE	Reel	1829 m
9463 J226000	BLUE, STRONG	Reel	6000 ft
9463	STRONG BLUE	Reel	305 m

9463	STRONG BLUE	Reel	1829 m
9463	BLUE, STRONG	UnReel	1000 ft
9463	STRONG BLUE	UnReel	305 m
9463 J22U1000	BLUE, STRONG	UnReel	1000 ft
9463	BLUE, STRONG	UnReel	500 ft
9463	STRONG BLUE	UnReel	152 m
9463 J22U500	BLUE, STRONG	UnReel	500 ft
9463	BLUE	Reel	1000 m
9463.001829	BLUE	Reel	1829 m
9463.00305	BLUE	Reel	305 m
9463	BLUE	Reel	30 m
9463.00U152	BLUE	UnReel	152 m
9463.00U305	BLUE	UnReel	305 m
9463.01152	BLUE	Reel	152 m
9463	BROWN	Reel	3050 m
9463.02305	BROWN	Reel	305 m
9463.031829	ORANGE	Reel	1829 m
9463.03305	ORANGE	Reel	305 m
9463.041829	VIOLET	Reel	1829 m
9463.04305	VIOLET	Reel	305 m
9463	BLUE	Reel	305 m
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