



**Part Number:** 139463

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

## 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 inner jacket, steel interlocked armor, PVC outer jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
20	7x28	TC - Tinned Copper	0.038 in	1
<b>Total Number of Conductors:</b>				2

#### Insulation:

Material
PE - Polyethylene

#### Color Chart 1:

Number	Color
1	Clear & Blue

#### Stranding:

Lay Length	Diameter
Yes mm	0.154 mm

**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	7x28 mm
Braid	2	TC - Tinned Copper		55 %			

**Outerjacket 1:**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.238 in
	0.563 in

**Armor:**

Type of Armor	Material	Thickness of Armoring Tape	Diameter over Armoring
Interlocked Armor	Steel	0.025 mm	0.453 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

<b>Other Electrical Characteristic 1:</b>	DC Resistance Unbalanced: .77 Ohms/1000 ft Max
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**Impedance:**

Nominal Characteristic Impedance
78 Ohm

**High Frequency (Nominal/Typical):**

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

**Delay:**

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

### High Freq:

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

### Inductance:

Nominal Inductance
0.12 $\mu$ H/ft

### Voltage:

UL Voltage Rating
300 V RMS

### Use

Max Recommended Pulling Tension:	205 lbs
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### Safety

UL Flammability:	UL1685 UL Loading
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### Temperature Range

Operating Temp Range:	-40°C To +60°C
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### Mechanical Characteristics

Min Bend Radius/Minor Axis:	6.5 in
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### Part Number

Plenum (Y/N):	No
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### Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification

<b>Customer Part Number Reference Spec:</b>	Allen Bradley P/N 1770-CD
<b>MII Order #39 (China RoHS):</b>	MII Order #39 (China RoHS)
<b>NEC/(UL) Specification:</b>	NEC/(UL) Specification
<b>EU Directive Compliance:</b>	EU Directive 2003/11/EC (BFR)

## History

## Product Variants

Part Number	Color	Put-Up Type	Length
139463 J221000	BLUE, STRONG	Reel	1000 ft
139463 J226000	BLUE, STRONG	Reel	6000 ft

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