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1-800-Belden1



## General Description:

20 AWG stranded (7x28) tinned copper conductors, FEP insulation, overall Beldfoil® (100% coverage) plus a tinned copper braid shield (76% coverage), FEP jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	7x28	TC - Tinned Copper	.038

Total Number of Conductors: 2

### Insulation

Insulation Material:

Insulation Material
FEP - Fluorinated Ethylene Propylene

### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	76

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
20	7x28	TC - Tinned Copper

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### Overall Cable

Overall Nominal Diameter: 0.203 in.

### Pair

Pair Color Code Chart:

Number	Color
1	Clear & Blue

## Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

UL Temperature Rating: 200°C

Bulk Cable Weight: 36 lbs/1000 ft.

Max. Recommended Pulling Tension: 48 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP, CL2P

CEC/C(UL) Specification: CMP FT6

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Customer Part Number Reference Specification:	Allen Bradley P/N 1770-CD

**Flame Test**

UL Flame Test:	NFPA 262
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	9463

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

<b>Impedance (Ohm)</b>
78

**Nom. Inductance:**

<b>Inductance (µH/ft)</b>
0.12

**Nom. Capacitance Conductor to Conductor:**

<b>Capacitance (pF/ft)</b>
19.7

**Nominal Velocity of Propagation:**

<b>VP (%)</b>
69

**Nominal Delay:**

<b>Delay (ns/ft)</b>
1.47

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
9.5

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
4.1

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.6
10	2.1
50	5.0
100	7.5
200	11.0
400	16.0

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89463 0061000	1,000 FT	36.000 LB	BLUE, LIGHT	C	2 #20 FEP FS BRD FEP
89463 0062500	2,500 FT	90.000 LB	BLUE, LIGHT	C	2 #20 FEP FS BRD FEP

Notes:  
C = CRATE REEL PUT-UP.

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## **89463 Twinax - Blue Hose® Cable**

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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