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1-800-Belden1



## Description:

20 AWG stranded (7x28) tinned copper conductors, polyethylene insulation, overall Beldfoil® (100% coverage) plus a 55% tinned copper braid shield (55% coverage), PVC inner jacket, aluminum interlocked armor, sunlight-resistant PVC outer jacket.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

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

### Insulation

**Insulation Material:**

Insulation Material
PE - Polyethylene

### 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	55

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
20	7x28H	TC - Tinned Copper

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Outer Jacket Diameter:**

Nom. Dia. (in.)
.238

### Armor

**Armor Type:** Interlocked

**Armor Material:** Aluminum

**Armor Thickness:** .025

**Diameter over Armor:** .453

### Overall Cabling

**Overall Nominal Diameter:** 0.563 in.

### Pair

**Pair Color Code Chart:**

Number	Color
1	Clear & Blue

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
Bulk Cable Weight:	133 lbs/1000 ft.
Max. Recommended Pulling Tension:	205 lbs.
Min. Bend Radius (Install)/Minor Axis:	6.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM, CL2
CEC/C(UL) Specification:	CM, CMG FT4, HLBCD
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
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:	UL1685 UL Loading
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### Suitability

Sunlight Resistance:	Yes
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

78

### Nom. Inductance:

Inductance (µH/ft)

0.12

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

19.7

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

36

### Nominal Velocity of Propagation:

VP (%)

66

### Nominal Delay:

Delay (ns/ft)

1.54

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9.5

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

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:**

Voltage
300 V RMS

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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
129463 J221000	1,000 FT	143.000 LB	BLUE, STRONG		9463 ALUM ARMORED PVC
129463 J226000	6,000 FT	1,104.000 LB	BLUE, STRONG		9463 ALUM ARMORED PVC

Revision Number: 1    Revision Date: 02-20-2009

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