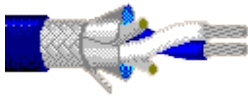


For more Information  
please call

1-800-Belden1



## Description:

20 AWG stranded (7x28) .038" tinned copper conductors, polyethylene insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (55% coverage), sunlight-resistant PVC 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

### Overall Cabling

Overall Nominal Diameter: 0.238 in.

### Pair

#### Pair Color Code Chart:

Number	Color
1	Clear & Blue

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	36 lbs/1000 ft.
Max. Recommended Pulling Tension:	48 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

CEC/C(UL) Specification: CM

<b>AWM Specification:</b>	UL Style 2464 (300 V 80°C)
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>PMSHA Specification:</b>	P-7K-SC-182141
<b>Customer Part Number Reference Specification:</b>	Allen Bradley P/N 1770-CD

### Flame Test

<b>UL Flame Test:</b>	UL1685 UL Loading
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### Suitability

<b>Sunlight Resistance:</b>	Yes
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### Plenum/Non-Plenum

<b>Plenum Number:</b>	89463
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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
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**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS (UL AWM Style 2464)

**Other Electrical Characteristic 1:**

DC Resistance Unbalanced: .77 Ohms/1000 ft Max

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9463 J22U1000	1,000 FT	38.000 LB	BLUE, STRONG		78 OHM TWINAX
9463 J22U500	500 FT	19.500 LB	BLUE, STRONG		78 OHM TWINAX
9463 J22100	100 FT	4.400 LB	BLUE, STRONG		78 OHM TWINAX
9463 J221000	1,000 FT	39.000 LB	BLUE, STRONG	C	78 OHM TWINAX
9463 J22500	500 FT	18.000 LB	BLUE, STRONG		78 OHM TWINAX
9463 J226000	6,000 FT	234.000 LB	BLUE, STRONG	C Z	78 OHM TWINAX
9463 0011000	1,000 FT	39.000 LB	BROWN		78 OHM TWINAX
9463 00110000	10,000 FT	380.000 LB	BROWN	C Z	78 OHM TWINAX
9463 0016000	6,000 FT	234.000 LB	BROWN	C Z	78 OHM TWINAX
9463 0031000	1,000 FT	39.000 LB	ORANGE	C	78 OHM TWINAX
9463 00310000	10,000 FT	380.000 LB	ORANGE	C Z	78 OHM TWINAX
9463 0036000	6,000 FT	234.000 LB	ORANGE	C Z	78 OHM TWINAX
9463 0071000	1,000 FT	39.000 LB	VIOLET	C	00 OHM TWINAX
9463 0076000	6,000 FT	234.000 LB	VIOLET	C Z	78 OHM TWINAX

**Notes:**

C = CRATE REEL PUT-UP.

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

Revision Number: 1    Revision Date: 03-07-2008

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