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1-800-Belden1



## Description:

20 AWG stranded (42x36) tinned copper conductors, polyethylene insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (85% coverage), sunlight-resistant PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	42x36	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	85

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cabling

Overall Nominal Diameter: 0.243 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:	34 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM, CL2
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2464 (300 V 80°C)
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):	01/01/2004
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
PMSHA Specification:	P-7K-SC-182141
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

### 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)
5

### 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 (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
9463F J221000	1,000 FT	42.000 LB	BLUE, STRONG	C	#20 PE SH PVC TWINAX
9463F J225000	5,000 FT	205.000 LB	BLUE, STRONG	C	#20 PE SH PVC TWINAX

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 05-14-2007

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