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## General 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
1	20	7x28	TC - Tinned Copper

Total Number of Conductors: 2

### 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 Cable

Overall Nominal Diameter: 6.045 mm

### 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:	53.575 Kg/Km
Max. Recommended Pulling Tension:	213.514 N
Min. Bend Radius/Minor Axis:	60.960 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2, CM
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):	01/01/2005
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
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 Number:	89463
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

78

### Nom. Inductance:

Inductance (µH/m)

0.39372

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

64.6357

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

Capacitance (pF/m)

118.116

### Nominal Velocity of Propagation:

VP (%)

66

### Nominal Delay:

Delay (ns/m)

5.05274

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

31.1695

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

13.4521

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1	1.9686
10	6.8901

## METRIC MEASUREMENT VERSION

## 9463 Twinax - Blue Hose® Cable

50	16.405
100	24.6075
200	36.091
400	52.496

### 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
9463 J22U1000	305 MT	17.237 KG	BLUE, STRONG		78 OHM TWINAX
9463 J22U500	152 MT	8.845 KG	BLUE, STRONG		78 OHM TWINAX
9463 J22100	30 MT	1.996 KG	BLUE, STRONG		78 OHM TWINAX
9463 J221000	305 MT	17.690 KG	BLUE, STRONG	C	78 OHM TWINAX
9463 J22500	152 MT	8.845 KG	BLUE, STRONG		78 OHM TWINAX
9463 J226000	1,829 MT	106.141 KG	BLUE, STRONG	C Z	78 OHM TWINAX
9463 0011000	305 MT	17.690 KG	BROWN		78 OHM TWINAX
9463 00110000	3,048 MT	172.366 KG	BROWN	C Z	78 OHM TWINAX
9463 0016000	1,829 MT	106.141 KG	BROWN	C Z	78 OHM TWINAX
9463 0031000	305 MT	17.690 KG	ORANGE	C	78 OHM TWINAX
9463 00310000	3,048 MT	172.366 KG	ORANGE	C Z	78 OHM TWINAX
9463 0036000	1,829 MT	106.141 KG	ORANGE	C Z	78 OHM TWINAX
9463 0071000	305 MT	17.690 KG	VIOLET	C	00 OHM TWINAX
9463 0076000	1,829 MT	106.141 KG	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.

## Test Reports

### a) UL

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

### b) CSA

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

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