



For more Information
please call

1-800-Belden1



Description:

20 AWG stranded (7x28) tinned copper conductors, polyethylene insulation, overall Beldfoil® (100% coverage) plus a tinned copper braid shield (55% coverage), PVC inner jacket, steel 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	7x28	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
.238

Outer Jacket over Armor (y/n): Y

Armor

Armor Type: Interlocked

Armor Material: Steel

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:	224 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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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 Unbalanced: .77 Ohms/1000 ft Max

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
139463 J221000	1,000 FT	232.000 LB	BLUE, STRONG	C Z	9463 STEEL ARMORED PVC
139463 J224000	4,000 FT	948.000 LB	BLUE, STRONG		9463 STEEL ARMORED PVC
139463 J226000	6,000 FT	1,632.000 LB	BLUE, STRONG	C Z	9463 STEEL ARMORED PVC

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.

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