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1-800-Belden1



General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

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

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	7x28	TC - Tinned Copper

Outer Shield Flooding Grease: Yes

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

Overall Cable

Overall Nominal Diameter: 0.240 in.

Pair

Pair Color Code Chart:

Number	Color
1	Clear & Blue

Mechanical Characteristics (Overall)

Operating Temperature Range: -55°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 36 lbs/1000 ft.

Max. Recommended Pulling Tension: 48 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
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 Burial

Suitability

Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	Yes

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)

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

Other Electrical Characteristic 1:

DC Resistance Unbalanced: .77 Ohms/1000 ft Max

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9463DB S8Y1000	1,000 FT	33.000 LB	BLUE, UV	C	2 #20 PE FS BRD PE
9463DB S8Y5000	5,000 FT	155.000 LB	BLUE, UV	C	2 #20 PE FS BRD PE

Notes:

C = CRATE REEL PUT-UP.

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