

## 179DT Coax - Sub-Miniature

For more Information  
please call

1-800-Belden1



### Description:

28.5 AWG solid .012" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® foil + tinned copper braid shield (95% coverage), PVC jacket.

### Usage (Overall)

**Suitable Applications:** Broadcast Mobil Trucks, Digital Video, Precision Video, Telecommunications

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	28.5	Solid	BC - Bare Copper	.0122

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.056

#### Outer Shield

**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

**Overall Nominal Diameter:** 0.100 in.

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +75°C

**UL Temperature Rating:** 75°C

**Bulk Cable Weight:** 8 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 15 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 0.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CMR

**CEC/C(UL) Specification:** CMG

**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
RG Type:	179/U

### Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

75

#### Nom. Inductance:

Inductance (µH/ft)

.106

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

17.4

#### Nominal Velocity of Propagation:

VP (%)

77

#### Nominal Delay:

Delay (ns/ft)

1.32

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

108

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

8.9

#### Nom. Attenuation:

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

1.000	1.180
5.000	1.850
6.000	1.990
7.000	2.150
10.000	2.390
12.000	3.830
67.500	5.890
71.500	5.980
88.500	6.610
100.000	6.890
135.000	7.850
143.000	8.070

180.000	8.930
270.000	10.800
360.000	12.500
540.000	15.400
720.000	17.900
750.000	18.300
1000.000	21.300
1500.000	26.300
2000.000	30.800
2250.000	32.800
3000.000	38.300
4500.000	47.500

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Other Electrical Characteristic 1:** Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 3 Ohms

**Other Electrical Characteristic 2:** Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

**Minimum Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	1600	23
1600	4500	21

**Sweep Test**

**Sweep Testing:** 100% Sweep tested 5 MHz to 4.5 GHz.

**Misc. Information (Overall)**

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
179DT N3U1000	1,000 FT	9.000 LB	GREEN, MIL	C	#28H PE/GIFPE SH PVC
179DT 0011000	1,000 FT	9.000 LB	BROWN		#28H PE/GIFPE SH PVC
179DT 0021000	1,000 FT	9.000 LB	RED	C	#28H PE/GIFPE SH PVC
179DT 0031000	1,000 FT	9.000 LB	ORANGE	C	#28H PE/GIFPE SH PVC
179DT 0041000	1,000 FT	9.000 LB	YELLOW	C	#28H PE/GIFPE SH PVC
179DT 0061000	1,000 FT	9.000 LB	BLUE, LIGHT		#28H PE/GIFPE SH PVC
179DT 0071000	1,000 FT	9.000 LB	VIOLET		#28H PE/GIFPE SH PVC
179DT 0081000	1,000 FT	9.000 LB	GRAY	C	#28H PE/GIFPE SH PVC
179DT 0091000	1,000 FT	9.000 LB	WHITE		#28H PE/GIFPE SH PVC
179DT 0101000	1,000 FT	9.000 LB	BLACK		#28H PE/GIFPE SH PVC
179DT 010500	500 FT	4.500 LB	BLACK		#28H PE/GIFPE SH PVC
179DTBHDL	1 EA	0.033 LB	CHROME, BRIGHT	Q	CONN, LCK, 179 DIGI-/50PK
179DTBHD1	1 EA	0.033 LB	CHROME, BRIGHT	Q	CONN, 1PC, 179 DIGI-/50PK
179DTBHD3	1 EA	0.037 LB	CHROME, BRIGHT	Q	CONN, 3PC, 179 DIGI-/50PK

**Notes:**

C = CRATE REEL PUT-UP.  
Q = STANDARD PACKAGES CANNOT BE BROKEN.

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