

## 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)**

<b>Operating Temperature Range:</b>	-20°C To +75°C
<b>UL Temperature Rating:</b>	75°C
<b>Bulk Cable Weight:</b>	8 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	15 lbs.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	0.500 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

<b>NEC/(UL) Specification:</b>	CMR
<b>CEC/C(UL) Specification:</b>	CMG
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes

EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	179/U
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**Flame Test**

UL Flame Test:	UL1666 Vertical Shaft
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**Suitability**

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

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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:

Voltage
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
179DTBHD1	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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