

## 179DT Coax - Sub-Miniature



For more Information  
please call

1-800-Belden1

**General 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

Total Number of Conductors:

1

**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: 18 lbs.

Min. Bend Radius/Minor Axis: 1 in.

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

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU Directive 2011/65/EU (ROHS II): Yes

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
<b>Flame Test</b>	
UL Flame Test:	UL1666 Vertical Shaft
<b>Suitability</b>	
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No
<b>Plenum/Non-Plenum</b>	
Plenum (Y/N):	No

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)
70.500

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
8.000

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	2.500
67.500	5.300
71.500	5.500
88.500	6.000
100.000	6.400
135.000	7.200
143.000	7.500
180.000	8.300
270.000	10.200
360.000	11.800
540.000	14.600
720.000	17.000
750.000	17.400
1000.000	20.200
1500.000	24.800
2000.000	28.900
2250.000	30.900
3000.000	35.900
4500.000	45.000

Max. Operating Voltage - UL:

Voltage
300 V RMS

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## 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&#37; Sweep tested 5 MHz to 4.5 GHz.

## Misc. Information (Overall)

## 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

## Notes:

C = CRATE REEL PUT-UP.

Revision Number: 12    Revision Date: 06-17-2016

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