

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
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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.

Revision Number: 10 Revision Date: 09-30-2009

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