Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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

Mil Order #39 (China RoHS):	Yes
RG Type:	179/U

Flame Test

UL Flame Test:	UL1666 Vertical Shaft

Suitability

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

Plenum/Non-Plenum

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
6000.000	58.000

Max. Operating Voltage - UL:

Voltage

300 V RMS

Other Electrical Characteristic 1: Return Loss: Fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	1600.000	23.000
1600.000	4500.000	21.000
4500.000	6000.000	15.000

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 6 GHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Print legend includes sequential footage marks.

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: 13 Revision Date: 04-12-2017