# **Detailed Specifications & Technical Data**

#### METRIC 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:

Total Number of Conductors:

#### Insulation

#### Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	1.4224

#### **Outer Shield**

#### Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Таре	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: 2.540 mm

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	11.906 Kg/Km
Max. Recommended Pulling Tension:	80.068 N
Min. Bend Radius/Minor Axis:	25.400 mm

## **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

Page 1 of 3 11-05-2015

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MII 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:



Nom. Inductance:

Inductance (µH/m) 0.347786

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 57.0894

Nominal Velocity of Propagation:

**VP (%)** 

Nominal Delay:

Delay (ns/m) 4.33092

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 231.311

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 26.248

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	3.872
5.000	6.070
6.000	6.529
7.000	7.054
10.000	7.842
12.000	12.566
67.500	19.325
71.500	19.620
88.500	21.687
100.000	22.606
135.000	25.756
143.000	26.478
180.000	29.299
270.000	35.435
360.000	41.013
540.000	50.527
720.000	58.730
750.000	60.042
1000.000	69.885
1500.000	86.290
2000.000	101.055
2250.000	107.617
3000.000	125.662
4500.000	155.848

Max. Operating Voltage - UL:

Voltage 300 V RMS

Page 2 of 3 11-05-2015

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Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge Other Electrical Characteristic 1:

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

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)

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
179DT N3U1000	1,000 FT	9.000 LB	GREEN, MIL	С	#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	С	#28H PE/GIFPE SH PVC
179DT 0031000	1,000 FT	9.000 LB	ORANGE	С	#28H PE/GIFPE SH PVC
179DT 0041000	1,000 FT	9.000 LB	YELLOW	С	#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	С	#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.

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product.

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Page 3 of 3 11-05-2015