



**Part Number:** 179DT

Serial Digital Coax, Ultra-miniature, #28.5 Solid BC, Foil + 95% TC braid, CMR

## Product Description

Low Loss Serial Digital Coax, Riser-CMR, Ultra-miniature 28.5 AWG solid bare copper conductor, foam HDPE core, Duofoil, + 95% tinned copper braid, PVC jacket

## Technical Specifications

<b>Suitable Applications:</b>	Broadcast Mobil Trucks, Digital Video, Precision Video, Telecommunications
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## Construction and Dimensions

### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
28.5	Solid	BC - Bare Copper	0.0122 in	1

<b>Total Number of Conductors:</b>	1
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### Insulation:

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.056 in

### Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape-Aluminum Foil	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.1 in

## Electrical Characteristics

## Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
108 Ohm/1000ft	8.9 Ohm/1000ft

## Capacitance:

Nom. Capacitance Conductor to Shield
17.4 pF/ft

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
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Other Electrical Characteristic 2:	Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.
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Sweep Testing:	100% Sweep tested 5 MHz to 4.5 GHz.
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## Impedance:

Nominal Characteristic Impedance
75 Ohm

## High Frequency (Nominal/Typical):

Frequency [MHz]	Norm. Insertion Loss
1 MHz	1.18 dB/100ft
5 MHz	1.85 dB/100ft
6 MHz	1.99 dB/100ft
7 MHz	2.15 dB/100ft
10 MHz	2.39 dB/100ft
12 MHz	3.83 dB/100ft
67.5 MHz	5.89 dB/100ft
71.5 MHz	5.98 dB/100ft
88.5 MHz	6.61 dB/100ft
100 MHz	6.89 dB/100ft
135 MHz	7.85 dB/100ft
143 MHz	8.07 dB/100ft
180 MHz	8.93 dB/100ft
270 MHz	10.8 dB/100ft
360 MHz	12.5 dB/100ft
540 MHz	15.4 dB/100ft
720 MHz	17.9 dB/100ft
750 MHz	18.3 dB/100ft
1000 MHz	21.3 dB/100ft
1500 MHz	26.3 dB/100ft
2000 MHz	30.8 dB/100ft
2250 MHz	32.8 dB/100ft
3000 MHz	38.3 dB/100ft
4500 MHz	47.5 dB/100ft

**Delay:**

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.32 ns/ft	77 %

**High Freq:**

Min. RL (Return Loss) [dB]
23 dB
21 dB

**Inductance:**

Nominal Inductance
0.106 $\mu$ H/ft

**Voltage:**

UL Voltage Rating	
300V RMS V	

## Use

Suitability - Aerial:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Max Recommended Pulling Tension:	18 lbs

## Safety

UL Flammability:	UL1666 Vertical Shaft
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## Temperature Range

Operating Temp Range:	-20°C To +75°C °C
UL Temp Rating:	75°C °C

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	1 in
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## Part Number

Plenum (Y/N):	No
Suggested Connectors:	BNC Plug: Kings 2065-26-9, Trompeter UPL2000-D24, Canare BCP-C1, Holland SLC-BNC-179DT, ADC BNC31, Bomar HBC179DT

## Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMG
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CMR
RG Type:	179/U
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

## Product Variants

Part Number	Color	Put-Up Type	Length
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179DT	BROWN	Reel	1000 ft
179DT	BROWN	Reel	305 m
179DT 0011000	BROWN	Reel	1000 ft
179DT	RED	Reel	1000 ft
179DT	RED	Reel	305 m
179DT 0021000	RED	Reel	1000 ft
179DT	ORANGE	Reel	1000 ft
179DT	ORANGE	Reel	305 m
179DT 0031000	ORANGE	Reel	1000 ft
179DT	YELLOW	Reel	1000 ft
179DT	YELLOW	Reel	305 m
179DT 0041000	YELLOW	Reel	1000 ft
179DT	BLUE, LIGHT	Reel	1000 ft
179DT	BLUE, LIGHT	Reel	305 m
179DT 0061000	BLUE, LIGHT	Reel	1000 ft
179DT	VIOLET	Reel	1000 ft
179DT	PURPLE	Reel	305 m
179DT 0071000	VIOLET	Reel	1000 ft
179DT	GRAY	Reel	1000 ft
179DT	GRAY	Reel	305 m
179DT 0081000	GRAY	Reel	1000 ft
179DT	WHITE	Reel	1000 ft
179DT	WHITE	Reel	305 m
179DT 0091000	WHITE	Reel	1000 ft
179DT	BLACK	Reel	1000 ft
179DT	BLACK	Reel	305 m
179DT 0101000	BLACK	Reel	1000 ft
179DT	BLACK	Reel	1000 m
179DT	BLACK	Reel	500 ft
179DT	BLACK	Reel	152 m
179DT 010500	BLACK	Reel	500 ft
179DT	GREEN, MIL	Reel	1000 ft
179DT	MIL GREEN	Reel	305 m
179DT N3U1000	GREEN, MIL	Reel	1000 ft
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