



## Part Number: 179DT

Serial Digital Coax, Ultra-miniature, RG179, 28.5 AWG Solid BC, Foil + TC Braid, CMR

### Product Description

Low Loss Serial Digital Coax, Riser-CMR, Ultra-miniature, RG-179/U, 28.5 AWG solid bare copper conductor, foam HDPE core, Duofoil, + 95% tinned copper braid, PVC jacket

### Technical Specifications

#### Product Overview

Environmental Space:	Indoor - Riser
Suitable Applications:	Broadcast Mobil Trucks, Digital Video, Precision Video, Telecommunications

#### Physical Characteristics (Overall)

##### Conductor

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

Conductor Count:	1
Conductor Size:	28.5 AWG

##### Insulation

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

##### Outer Shield Material

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

##### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.1 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
70.5 Ohm/1000ft	8 Ohm/1000ft	8 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
17.4 pF/ft

##### Inductance

Nominal Inductance
0.106 µH/ft

##### Impedance

Nominal Characteristic Impedance
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75 Ohm
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. 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	2.5 dB/100ft
67.5 MHz	5.3 dB/100ft
71.5 MHz	5.5 dB/100ft
88.5 MHz	6 dB/100ft
100 MHz	6.4 dB/100ft
135 MHz	7.2 dB/100ft
143 MHz	7.5 dB/100ft
180 MHz	8.3 dB/100ft
270 MHz	10.2 dB/100ft
360 MHz	11.8 dB/100ft
540 MHz	14.6 dB/100ft
720 MHz	17 dB/100ft
750 MHz	17.4 dB/100ft
1000 MHz	20.2 dB/100ft
1500 MHz	24.8 dB/100ft
2000 MHz	28.9 dB/100ft
2250 MHz	30.9 dB/100ft
3000 MHz	35.9 dB/100ft
4500 MHz	45 dB/100ft
6000 MHz	58 dB/100ft

Delay

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

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	8 lbs/1000ft
Max Recommended Pulling Tension:	18 lbs
Min Bend Radius/Minor Axis:	1 in

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
CPR Euroclass:	Eca
RG Type:	179/U Type
Other Specification:	CEC/C(UL): CMG

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Footnote
179DT 0101000	Black	
179DT 010500	Black	
179DT 0061000	Blue, Light	
179DT 0011000	Brown	
179DT 0081000	Gray	C
179DT N3U1000	Green, Mil	C
179DT 0031000	Orange	C
179DT 0021000	Red	C
179DT 0071000	Violet	
179DT 0091000	White	
179DT 0041000	Yellow	C

Footnote:	C - CRATE REEL PUT-UP.
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