



Product: [179DTNH](#)

Ultra-miniature, RG179 Type, 28.5 AWG Solid BC, Foil + TC Braid, LSZH

Product Description

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

Technical Specifications

Product Overview

Suitable Applications:	Broadcast MobilE Trucks, Digital Video, Precision Video, Telecommunications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
28.5	Solid	BC - Bare Copper	0.012 in	1

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.056 in

Table Notes:	Gas Injected
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Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%

Outer Jacket

Material	Nominal Diameter
PPO - Polyphenylene Oxide	0.106 in

Electrical Characteristics

Conductor DCR

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

Capacitance

Nom. Capacitance Conductor to Shield
17.0 pF/ft

Inductance

Nominal Inductance
0.106 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB

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

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.29 ns/ft	79%

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	60°C
Operating Temperature Range:	-30°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	8 lbs/1000ft
Max. Pull Tension:	14 lbs
Min. Bend Radius/Minor Axis:	1 in

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes

EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	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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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
179DTNH 0101000	Black	Reel	1,000 ft	612825357063
179DTNH 0061000	Blue, Light	Reel	1,000 ft	612825357087
179DTNH 0051000	Green, Dark	Reel	1,000 ft	612825357094
179DTNH 0021000	Red	Reel	1,000 ft	612825357186
179DTNH 0071000	Violet	Reel	1,000 ft	612825357070
179DTNH 0041000	Yellow	Reel	1,000 ft	612825357056

History

Update and Revision:	Revision Number: 0.299 Revision Date: 04-29-2024
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