



Product: [179DT](#)

Serial Digital Coax, Ultra-miniature, RG179 Type, 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

Suitable Applications:	Broadcast Mobil Trucks, Digital Video, Precision Video, Telecommunications
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Construction Details

RG Type:	179
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Conductor

Number of Element	Size	Stranding	Nom. Diameter	Material
1	28.5 AWG	Solid	0.012 in	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.056 in (1.4 mm)	White

Table Notes:	Gas Injected
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Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.1 in (2.5 mm)

Overall Cable Diameter (Nominal):	0.1 in (2.5 mm)
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Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

Attenuation

Frequency	Nom. Attenuation
1 MHz	1.18 dB/100ft
5 MHz	1.74 dB/100ft
6 MHz	1.99 dB/100ft
7 MHz	2.03 dB/100ft
10 MHz	2.25 dB/100ft

12 MHz	2.5 dB/100ft
67.5 MHz	5.51 dB/100ft
71.5 MHz	5.66 dB/100ft
88.5 MHz	6 dB/100ft
100 MHz	6.55 dB/100ft
135 MHz	7.51 dB/100ft
143 MHz	7.69 dB/100ft
180 MHz	8.58 dB/100ft
270 MHz	10.5 dB/100ft
360 MHz	12.2 dB/100ft
540 MHz	15.1 dB/100ft
720 MHz	17.5 dB/100ft
750 MHz	17.8 dB/100ft
1000 MHz	20.7 dB/100ft
1500 MHz	25.4 dB/100ft
2000 MHz	29.6 dB/100ft
2250 MHz	31.5 dB/100ft
3000 MHz	36.7 dB/100ft
4500 MHz	45 dB/100ft
6000 MHz	58 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
70.5 Ohm/1000ft (231 Ohm/km)	8 Ohm/1000ft (26 Ohm/km)	17.4 pF/ft (57.1 pF/m)	75 Ohm	79%

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-30°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
1 in (25 mm)	1 in (25 mm)

Max. Pull Tension:	18 lbs (8.2 kg)
Bulk Cable Weight:	8 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Reaction to Fire:	UL1666 Vertical Shaft, FT4, IEC 60332-1-2, UN ECE R118.03
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.473 Revision Date: 04-24-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
179DT 010500	Black	Reel	500 ft	612825358558
179DT 0101000	Black	Reel	1,000 ft	612825358534
179DT 0108200	Black	Reel	8,200 ft	612825440390
179DT 0061000	Blue, Light	Reel	1,000 ft	612825358541

179DT 0011000	Brown	Reel	1,000 ft	612825357032
179DT 0081000	Gray	Reel	1,000 ft	612825356981
179DT N3U1000	Green, Mil	Reel	1,000 ft	612825357049
179DT 0031000	Orange	Reel	1,000 ft	612825357018
179DT 0021000	Red	Reel	1,000 ft	612825357025
179DT 0071000	Violet	Reel	1,000 ft	612825356998
179DT 0091000	White	Reel	1,000 ft	612825356974
179DT 0041000	Yellow	Reel	1,000 ft	612825357001

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