



Product: <u>179DT</u> ☑

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: Broad		cast Mobil Trucks	s, Digital Video, Pre	
Construction [	Details			
RG Type:		179		
Conductor				
No. of Elements	Size	Stranding	Nom. Diameter	r Material
1 2	28.5 AWG	Solid	0.012 in	BC - Bare Coppe
nsulation				
Material	N	om. Insulatio	on Diameter Co	olor Code
PE - Polyethylene (	(Foam) 0.	056 in (1.4 m	ım) Wi	hite

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

#### Outer Jacket

Materi	ial	Nom. Diameter
PVC - Polyving	yl Chloride	0.1 in (2.5 mm)
Overall Cable	Diameter (	Nominal): 0.1 in (

# **Electrical Characteristics**

#### Return Loss

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: 0.475 Revision Date: 09-07-2025

## **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
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	С
179DT N3U1000	Green, Mil	Reel	1,000 ft	612825357049	С
179DT 0031000	Orange	Reel	1,000 ft	612825357018	С
179DT 0021000	Red	Reel	1,000 ft	612825357025	С
179DT 0071000	Violet	Reel	1,000 ft	612825356998	
179DT 0091000	White	Reel	1,000 ft	612825356974	
179DT 0041000	Yellow	Reel	1,000 ft	612825357001	С

Footnote: C - CRATE REEL PUT-UP.

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