



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
------------------------	--

Construction Details

RG Type:	179
----------	-----

Conductor

No. of Elements	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
--------------	--------------

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)
-----------------------------------	-----------------

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: 0.474 Revision Date: 02-03-2025
----------------------	--

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	C
179DT N3U1000	Green, Mil	Reel	1,000 ft	612825357049	C
179DT 0031000	Orange	Reel	1,000 ft	612825357018	C
179DT 0021000	Red	Reel	1,000 ft	612825357025	C
179DT 0071000	Violet	Reel	1,000 ft	612825356998	
179DT 0091000	White	Reel	1,000 ft	612825356974	
179DT 0041000	Yellow	Reel	1,000 ft	612825357001	C

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.