



For more Information
please call

1-800-Belden1



General Description:

28.5 AWG solid .012" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® foil + tinned copper braid shield (95% coverage), PVC jacket.

Usage (Overall)

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

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	28.5	Solid	BC - Bare Copper	0.30988

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	1.4224

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 2.540 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 11.906 Kg/Km

Max. Recommended Pulling Tension: 80.068 N

Min. Bend Radius/Minor Axis: 25.400 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	179/U

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
----------------	-----------------------

Suitability

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

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.347786

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

57.0894

Nominal Velocity of Propagation:

VP (%)

77

Nominal Delay:

Delay (ns/m)

4.33092

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

354.348

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

29.2009

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1.000	3.872
5.000	6.070
6.000	6.529
7.000	7.054
10.000	7.842
12.000	12.566
67.500	19.325
71.500	19.620
88.500	21.687

100.000	22.606
135.000	25.756
143.000	26.478
180.000	29.299
270.000	35.435
360.000	41.013
540.000	50.527
720.000	58.730
750.000	60.042
1000.000	69.885
1500.000	86.290
2000.000	101.055
2250.000	107.617
3000.000	125.662
4500.000	155.848

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 3 Ohms

Other Electrical Characteristic 2: Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	1600	23
1600	4500	21

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

Misc. Information (Overall)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
179DT N3U1000	305 MT	4.082 KG	GREEN, MIL	C	#28H PE/GIFPE SH PVC
179DT 0011000	305 MT	4.082 KG	BROWN		#28H PE/GIFPE SH PVC
179DT 0021000	305 MT	4.082 KG	RED	C	#28H PE/GIFPE SH PVC
179DT 0031000	305 MT	4.082 KG	ORANGE	C	#28H PE/GIFPE SH PVC
179DT 0041000	305 MT	4.082 KG	YELLOW	C	#28H PE/GIFPE SH PVC
179DT 0061000	305 MT	4.082 KG	BLUE, LIGHT		#28H PE/GIFPE SH PVC
179DT 0071000	305 MT	4.082 KG	VIOLET		#28H PE/GIFPE SH PVC
179DT 0081000	305 MT	4.082 KG	GRAY	C	#28H PE/GIFPE SH PVC
179DT 0091000	305 MT	4.082 KG	WHITE		#28H PE/GIFPE SH PVC
179DT 0101000	305 MT	4.082 KG	BLACK		#28H PE/GIFPE SH PVC
179DT 010500	152 MT	2.041 KG	BLACK		#28H PE/GIFPE SH PVC
179DTBHD1	1 EA	0.015 KG	CHROME, BRIGHT	Q	CONN, LCK, 179 DIGI-/50PK
179DTBHD1	1 EA	0.015 KG	CHROME, BRIGHT	Q	CONN, 1PC, 179 DIGI-/50PK
179DTBHD3	1 EA	0.015 KG	CHROME, BRIGHT	Q	CONN, 3PC, 179 DIGI-/50PK

Notes:

C = CRATE REEL PUT-UP.
Q = STANDARD PACKAGES CANNOT BE BROKEN.

Revision Number: 10 Revision Date: 04-30-2013

© 2013 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 herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

179DT Coax - Sub-Miniature

Belden provides the information and specifications herein on an "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.