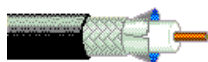


**7809A Coax - Intermediate Type**

For more Information  
please call

1-800-Belden1

**General Description:**

Intermediate type, 13 AWG solid .072" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II + tinned copper braid shield (95% coverage), polyethylene jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	13	Solid	BC - Bare Copper	.072

Total Number of Conductors: 1

**Insulation**

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.190

**Outer Shield**

Outer Shield Material:

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

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

**Overall Cable**

Overall Nominal Diameter: 0.300 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -40°C To +75°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 54 lbs/1000 ft.

Max. Recommended Pulling Tension: 135 lbs.

Min. Bend Radius/Minor Axis: 3 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

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

EU CE Mark: No

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

MIL Order #39 (China RoHS): Yes

Series Type: RF 300

**Suitability****Plenum/Non-Plenum**

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/ft)
0.060

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
23.0

Nominal Velocity of Propagation:

VP (%)
86

Nominal Delay:

Delay (ns/ft)
1.17

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.1

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.4

Maximum VSWR:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
		5	6000	1.25:1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.450
10.000	0.600
30.000	1.000
50.000	1.300
150.000	2.200
220.000	2.700
450.000	3.900
900.000	5.600
1500.000	7.300
1800.000	8.100
2000.000	8.600
2500.000	9.700
3000.000	10.800
3500.000	11.800
4500.000	13.500
5800.000	15.800
6000.000	16.000

Nom. Power Rating:

Freq. (MHz)	Rating (W)
30	2161
50	1658
150	928
220	758
450	522
900	367
1500	278
1800	253
2000	239
2500	212
3000	194
3500	179
4500	157
5800	137
6000	135

Max. Power Rating:

Freq. (MHz)	Rating (W)
-------------	------------

## 7809A Coax - Intermediate Type

30.000	2161.000
50.000	1658.000
150.000	928.000
220.000	758.000
450.000	522.000
900.000	367.000
1500.000	278.000
1800.000	253.000
2000.000	239.000
2500.000	212.000
3000.000	194.000
3500.000	179.000
4500.000	157.000
5800.000	137.000
6000.000	135.000

## Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

## Sweep Test

Sweep Testing: 100% Sweep tested to 6 GHz.

## Misc. Information (Overall)

## Notes (Overall)

Notes: 100% Sweep Tested. 6 GHz. Belden® The Wire in Wireless®

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7809A 0101000	1,000 FT	58.000 LB	BLACK	C	RF300 WIRELESS 50 OHM COAX PE
7809A 010500	500 FT	30.500 LB	BLACK	C	RF300 WIRELESS 50 OHM COAX PE

## Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5    Revision Date: 01-06-2014

© 2014 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.

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.