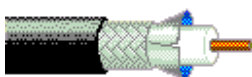


7809A Coax - Intermediate Type

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. (mm)
1	13	Solid	BC - Bare Copper	1.8288

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	4.826

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: 7.620 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	80.363 Kg/Km
Max. Recommended Pulling Tension:	600.507 N
Min. Bend Radius/Minor Axis:	76.200 mm

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
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Series Type:	RF 300
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Suitability**Plenum/Non-Plenum**

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

50

Nom. Inductance:

Inductance (μH/m)

0.19686

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

75.463

Nominal Velocity of Propagation:

VP (%)

86

Nominal Delay:

Delay (ns/m)

3.83877

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

6.8901

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

7.8744

Maximum VSWR:

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

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5.000	1.476
10.000	1.969
30.000	3.281
50.000	4.265
150.000	7.218
220.000	8.859
450.000	12.796
900.000	18.374
1500.000	23.951
1800.000	26.576
2000.000	28.217
2500.000	31.826
3000.000	35.435
3500.000	38.716
4500.000	44.294
5800.000	51.840
6000.000	52.496

Nom. Power Rating:

Freq. (MHz)	Rating (W)
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7809A Coax - Intermediate Type

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)
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 PO
7809A 010500	500 FT	30.500 LB	BLACK	C	RF300 WIRELESS 50 OHM COAX PO

Notes:

C = CRATE REEL PUT-UP.

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

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7809A Coax - Intermediate Type

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