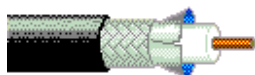


## 7977A Coax - Low Loss 50 Ohm Wireless RF Transmission Cable



For more Information  
please call

1-800-Belden1

**Description:**

5.5 AWG solid .176" bare copper-covered aluminum conductor, foam HDPE insulation, Duobond® II (100% coverage) plus a tinned copper braid shield (85% coverage), polyethylene jacket.

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

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	5.5	Solid	BCCA - Bare Copper Covered Aluminum	.176

Total Number of Conductors: 1

**Insulation**

Insulation Material:

Insulation Material	Dia. (in.)
FHDPE - Foam High Density Polyethylene	.455

**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	85

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

**Overall Cable**

Overall Nominal Diameter: 0.590 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	130 lbs/1000 ft.
Max. Recommended Pulling Tension:	290 lbs.
Min. Bend Radius/Minor Axis:	6 in.

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

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):	01/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

## 7977A Coax - Low Loss 50 Ohm Wireless RF Transmission Cable

CA Prop 65 (CJ for Wire &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

Series Type: RF 600

## Suitability

Suitability - Outdoor: Yes

## 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)

24.6

## Nominal Velocity of Propagation:

VP (%)

85

## Nominal Delay:

Delay (ns/ft)

1.19

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

.53

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.8

## Maximum VSWR:

Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
5.000	2690.000	1.25:1
2690.000	3290.000	2.00:1
3290.000	6000.000	1.43:1

## Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
30	.46
50	.61
150	.98
220	1.18
450	1.72
900	2.54
1500	3.40
1800	3.77
2000	4.01
2500	4.58
3000	5.07
3500	5.56
4500	6.44
5800	7.56
6000	7.75

## Max. Power Rating:

Freq. (MHz) Rating (W)

**7977A Coax - Low Loss 50 Ohm Wireless RF Transmission Cable**

30	5057
220	1975
450	1353
900	921
1500	691
1800	623
2000	587
3500	425
4500	368
5800	315
6000	309

**Max. Operating Voltage - Non-UL:**

<b>Voltage</b>
300 V RMS

**Notes (Overall)**

**Notes:** 100% Sweep tested. Belden® The Wire in Wireless®.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7977A 0101000	1,000 FT	146.000 LB	BLACK	C	#5H GIPPE SH LDPE
7977A 010500	500 FT	73.500 LB	BLACK	C	#5H GIPPE SH LDPE

**Notes:**

C = CRATE REEL PUT-UP.

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