

DATASHEET

CASEND247-100

Cable Assembly



1. Features

- Semi-rigid cable has low attenuation loss
- Semi-rigid cable used for making accurate RF measurements
- Low Insertion loss SMA connector
- 50mm and 100mm available

2. General data

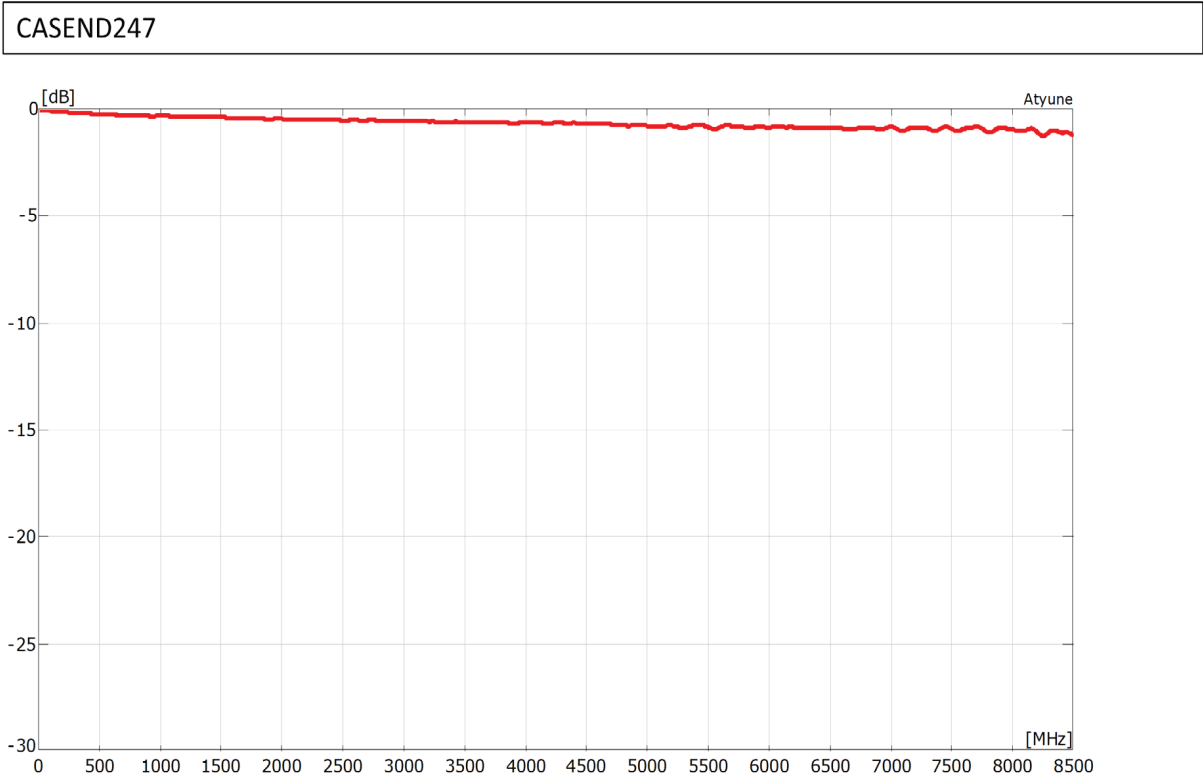
2.1. SMA Jack Straight Connector

Electrical	
Impedance	50Ω
Frequency Range	DC ~ 6GHz
Working Voltage	Max $\leq 335V_{rms}$
Dielectric Withstanding Voltage	1000 Vrms
Insulation Resistance	$\geq 5000m\Omega$
Center Contact Resistance	$\leq 3m\Omega$
Outer Contact Resistance	$\leq 2m\Omega$
VSWR	≤ 1.25
Durability	> 500 cycles
Temperature range	-45°C to +155°C

2.2. Cable Specification

Electrical	
Cable Item	Semi-Rigid Cable
Capacitance (pF/m)	95.1
Impedance (ohm)	50
Velocity (%)	70
Corona Extinction Voltage (VRMS @60Hz)	1500
Voltage Withstanding (VRMS @60Hz)	5000
Min. Bend Radius (mm)	7.63
Moding Frequency (MHz)	61
Operating Temperature	-55°C to +125°C
VSWR	≤1.50
Attenuation (dB/100m) - Average Power @20oC and sea level	500MHz - 45dB/100m (190.3 Watts) 1000MHz - 64dB/100m (133.2 Watts) 5GHz - 151dB/100m (57.2 Watts) 10GHz - 222dB/100m (39.3 Watts) 20GHz - 329dB/100m (26.7 Watts)
Cable length	50mm/100mm Unterminated end, trimmed and tinned

3. Cable Insertion Loss

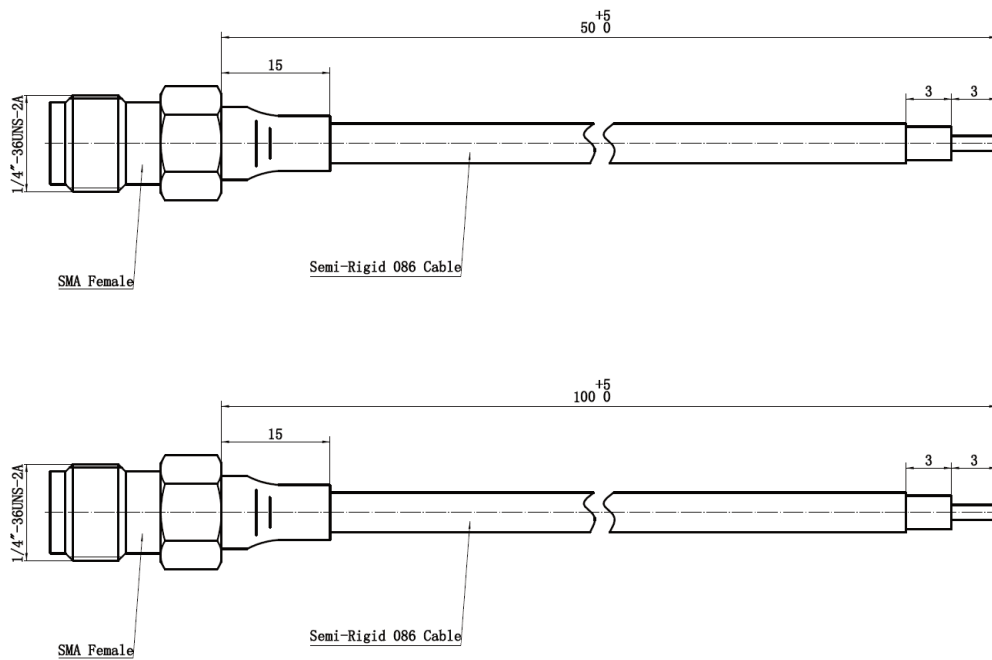


4. Part numbers

- CASEND247-50
- CASEND247-100

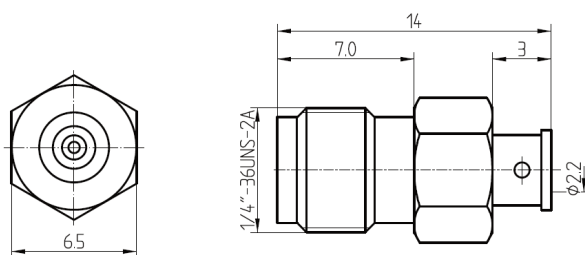
5. Drawing

5.1. Cable assembly

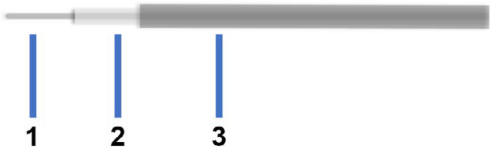


5.2. Connectors

connector : SMA Jack Straight



5.3. Cable Construction Specification



Item	Description	Material	Diameter (MM)
1	Inner Conductor	Silver Plated Copper	0.51
2	Dielectric	PTFE	1.68
3	Outer Conductor	Tin Plated Copper Tube	2.20

5.4. Bill of Material

Item	Description	Material	Finish	QTY
1	SMA Jack connector	Brass	Gold	1
2	Semi-Rigid Cable	Tin Plated Copper Tube	Silver	1
3	Heat Shrink Tube	PE	Black	1

Quality statements

Antenova's products conform to REACH and RoHS legislation. For our statements regarding these and other quality standards, please see [antenova.com](https://www.antenova.com).

Antenova reserves all rights to the contents of this document. Antenova gives no warranties based solely on the accuracy or completeness of the contents of this document and reserves the right to make changes to the specifications of the products described herein at any time and without notice.



Datasheet version

2.02 release 10th June 2026

Antenna design, integration and test resources

Product designers – the details contained in this datasheet will help you to complete your embedded antenna design. Please follow our technical advice carefully to obtain optimum antenna performance.

We aim to support our customers to create high performance wireless products. You will find a wealth of design resources, calculators and case studies to aid your design on our website.

Antenova's design laboratories are equipped with the latest antenna design tools and test chambers. We provide antenna design, test and technical integration services to help you complete your design and obtain the required certifications.

If you cannot find the antenna you require in our product range, please contact us to discuss creating a custom antenna to meet your exact requirements.

Share knowledge with RF Experts around the world

ask.antenova is a global forum for
designers and engineers working with
wireless technology

[Visit Ask.Antenova](#)

Visit [antenova.com](#)

**Order antenna samples and
evaluation boards, and read our
antenna resources**

[Visit antenova.com](#)

Request a volume quotation for antennas:

sales@antenova.com

+ 44 (0) 23 9400 1023

Global headquarters

**Antenova Ltd, 7 The Briars,
Waterberry Drive, Waterlooville,
Hampshire, PO7 7YH**