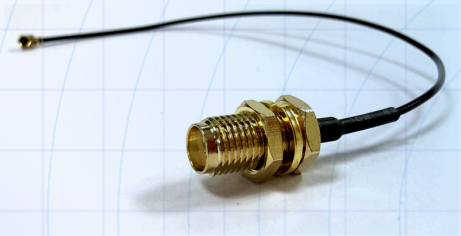
SP TECHNOLOGY

PRODUCT DATASHEET



RF CABLE ASSEMBLY

SMA-MHF1

RF Cable Assembly, 1.13 mm Coax, 500 mm

SZ-2-0C-500-A-01-00-1

CABLE	LENGTH	CONNECTOR A	CONNECTOR B
1.13 mm micro-coax	500 mm	SMA bulkhead	MHF1 plug

ASSEMBLY	500 mm	SMA female bulkhead (jack) to MHF1 plug on 1.13 mm micro-coax

Key Features

- 1.13 mm micro-coax, 500 mm
- SMA bulkhead (jack) to MHF1 plug
- Custom lengths on request

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2026
Rev A

1 Introduction

SZ-2-0C-500-A-01-00-1 is a 500 mm RF cable assembly built on 1.13 mm micro-coaxial cable, with an SMA female bulkhead (jack) connector at one end and an MHF1 plug (U.FL compatible) at the other. It carries the RF signal from a module or PCB fitted with an MHF1 receptacle to an SMA antenna connection. The bulkhead SMA has a rubber O-ring gasket on its flange and is supplied with a panel nut and lock washers, so it mounts straight through the enclosure wall and gives compact embedded radios an external SMA antenna port. Other lengths and connector combinations are available on request.

Features

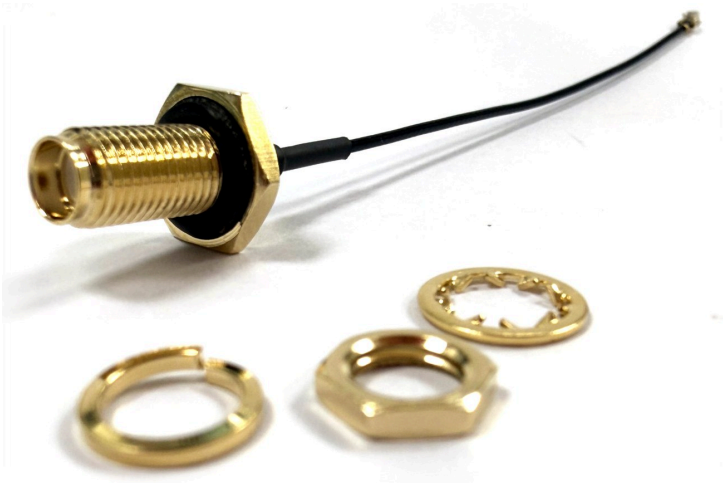
- 1.13 mm micro-coaxial cable
- Cable assembly length: 500 mm
- SMA female bulkhead (jack) connector
- Rubber O-ring gasket on the SMA flange
- Panel nut and lock washers for enclosure mounting
- MHF1 plug (U.FL compatible)
- Other lengths and connectors available on request

Applications

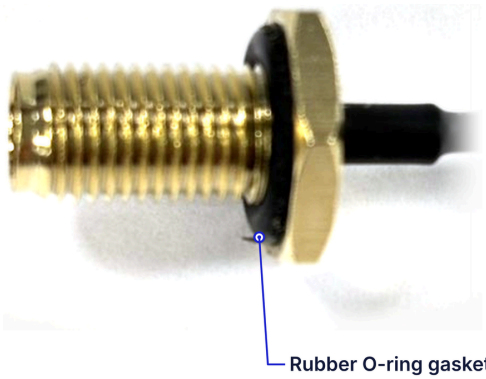
- Connecting MHF1 module receptacles to SMA antennas
- Enclosure pass-through for external antennas
- Development, evaluation and RF test setups

2 Product Photos

Supplied with panel nut, toothed lock washer and split lock washer



Close-up: rubber O-ring gasket on the SMA flange

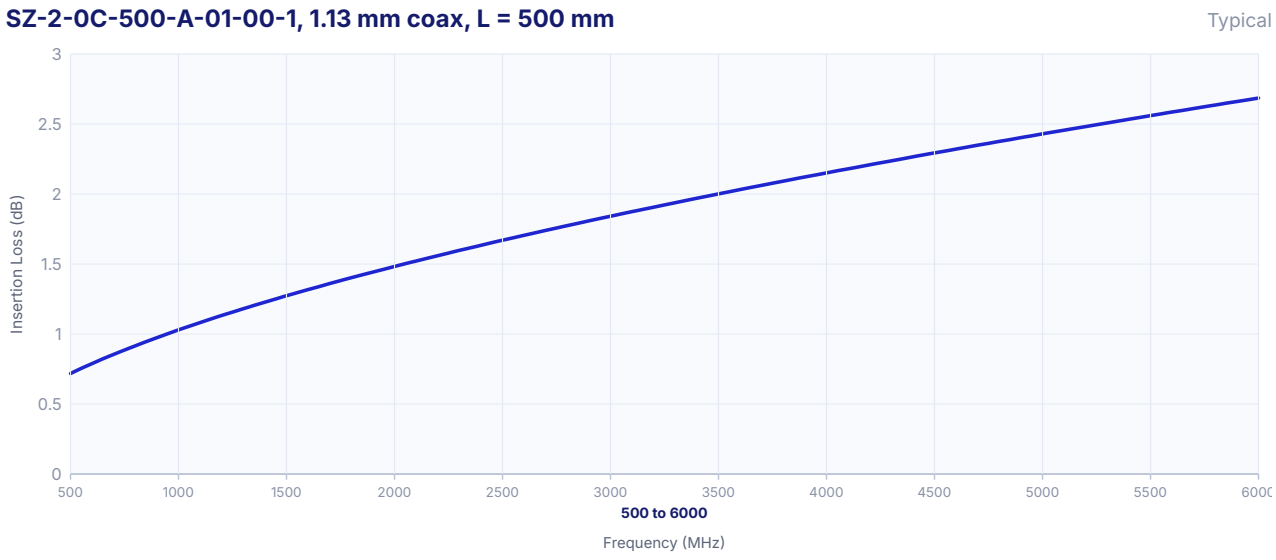


3 Product Specifications

Part Number	SZ-2-0C-500-A-01-00-1
Description	SMA female to MHF1, 1.13 mm coax, 500 mm
Cable Type	1.13 mm micro-coaxial
Cable Assembly Length (L)	500 mm, rear of SMA body to MHF plug centre pin
Heat Shrink Sleeve	15 mm at the SMA end (REF)
Connector A	SMA female bulkhead (jack), rubber O-ring gasket, panel nut and lock washers
Connector B	MHF1 plug (U.FL compatible)
Insertion Loss (typ.)	0.97 dB at 900 MHz, 1.40 dB at 1800 MHz, 1.65 dB at 2450 MHz

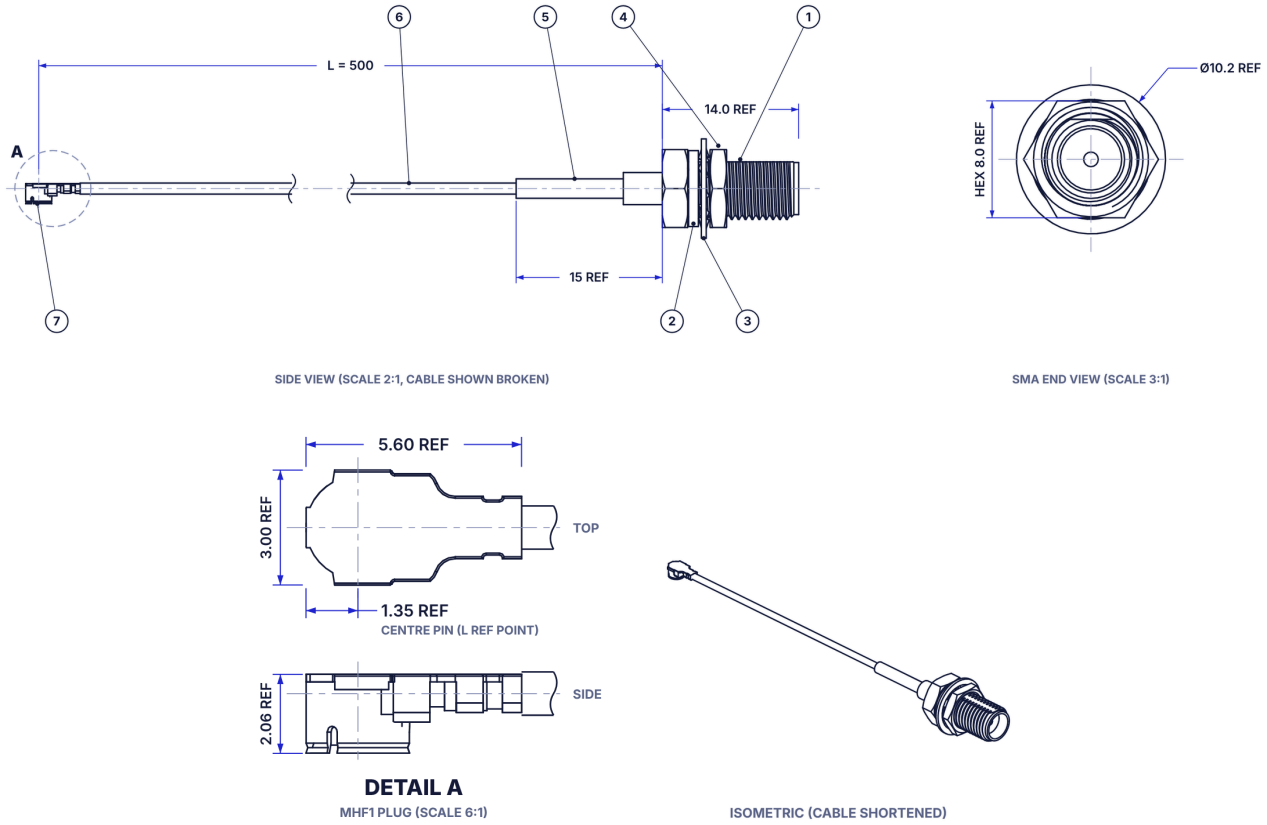
Alternate cable lengths and connectors available on request

4 Insertion Loss



Typical insertion loss of the complete assembly including connectors. 900 MHz: 0.97 dB; 1800 MHz: 1.40 dB; 2450 MHz: 1.65 dB.

5 Mechanical Drawing



Item numbers refer to the Parts List. Dimensions in mm. L is measured from the rear face of the SMA body to the centre pin of the MHF plug. REF dimensions are for information only. Full drawing and 3D STEP model available on request.

6 Parts List

Item	Description	Qty
1	SMA female bulkhead jack (1/4-36 UNS)	1
2	O-ring gasket, black rubber	1
3	Toothed lock washer (supplied loose)	1
4	Panel nut (supplied loose)	1
5	Heat shrink sleeve, black, 15 mm	1
6	1.13 mm micro-coaxial cable	1
7	MHF1 plug (U.FL compatible)	1
8	Split lock washer (supplied loose, not shown)	1

7 Ordering Information

Part Number	Cable	Length (mm)	Connector A	Connector B
SZ-2-0C-200-B-04-00-1	0.81 mm micro-coax	200	SMA female bulkhead (jack)	MHF4 plug
SZ-2-0C-200-A-01-00-1	1.13 mm micro-coax	200	SMA female bulkhead (jack)	MHF1 plug (U.FL compatible)
SZ-2-0C-500-A-01-00-1	1.13 mm micro-coax	500	SMA female bulkhead (jack)	MHF1 plug (U.FL compatible)

8 Compliance

ROHS
Compliant
Conforms to EU RoHS Directive 2011/65/EU as amended by Delegated Directive (EU) 2015/863.

REACH
Compliant
Conforms to EU REACH Regulation (EC) No 1907/2006.

CERTIFICATE
On request
A certificate of conformance is available upon request from sales@synzen.com.tw.

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