



# Coaxial Cable

## 086 SBSM Model Series

50Ω

DC to 18 GHz

### The Big Deal

- Hand formable with tight bend radius
- SMA-F bulkhead connector at one end
- Excellent Return Loss and Insertion Loss
- Ideal for interconnect of assembled systems



CASE STYLE: KP1567-XX

XX= cable length in inches

### Product Overview

The 086 SBSM Series Hand-Flex Coaxial Cables are ideal for interconnection of coaxial components or sub-systems to equipment racks. The construction includes a silver-plated copper-clad steel center conductor which maintains the shape after bending. The outer shield is copper braid, tin soaked, which minimizes signal leakage and at the same time flexible for easy bend. Dielectric is low loss PTFE. Connectors have passivated stainless-steel coupling nut over a gold plated connector body. SMA-M connector has gold plated, brass center conductor and SMA-F has gold plated BeCuB center conductor.

### Key Features

Feature	Advantages
Hand-Formable RF Cables	The 086 Series Hand-Flex cables are hand formable making them ideal for use integrating coaxial components and sub-assemblies without the need for special cable-bending tools and alleviating the risk of damage during the bending process typical of semi-rigid coaxial cable assemblies.
SMA-F bulkhead connector at one end	Mounts directly on equipment racks eliminating need for bulkhead adapter, thereby improving reliability.
Tight Bend Radius	Capable of only 6mm bend radius, the 086 Hand Flex series is able to make connections in tight spaces making these cables ideal for dense system integration.
Excellent Return loss	Supporting typical return loss of 26 dB to 6 GHz and 19 dB to 18 GHz, the 086 Series Hand-Flex Cables are ideally suited for interconnecting a wide variety of RF components while minimizing VSWR ripple contribution due to mating cables & connectors.
Good Power Handling Capability: • 211W at 0.5 GHz • 35W at 18 GHz	Mini-Circuits 086 Cable series can support medium to high RF power levels enabling these cables to be used in the transmit path. (power rating is at sea-level altitudes)
Built in Anti-torque nut	Mini-Circuits 086 Series Hand Flex cables include an anti-torque feature to support the straight SMA connector body during installation alleviating risk of stress to the connector/cable interface.

#### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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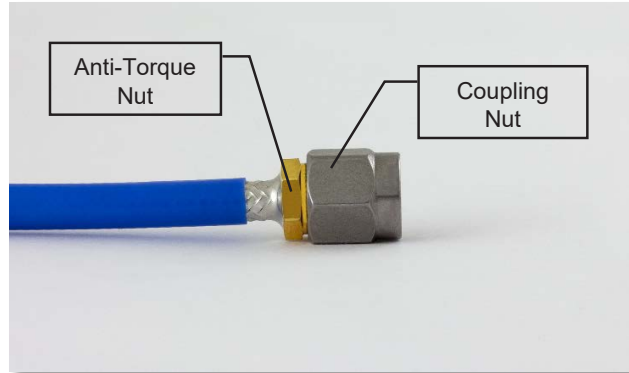


## Proper Cable Connection Using Anti-Torque Nut

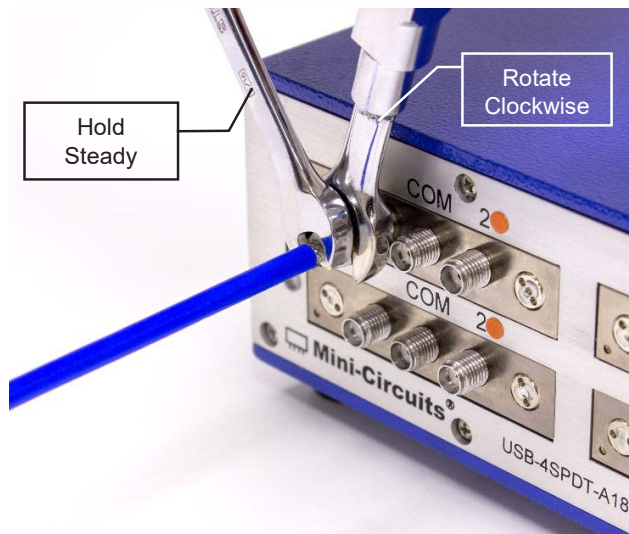
Mini-Circuits 086-series HandFlex™ interconnect cables are constructed with an anti-torque nut adjacent to the connector coupling nut. When used properly, this feature prevents possible damage to the cable due to torquing and twisting when tightening the cable connector.

**To properly tighten the cable connector:**

- 1) The cable connector includes a coupling nut which rotates to fasten the connector, and an anti-torque nut, which is fixed to prevent the cable from twisting during connection.



- 2) To properly tighten the cable, use a standard 1/4-inch open end wrench to brace the anti-torque nut.
- 3) Using a 5/16-inch open end wrench, rotate the coupling nut clockwise to tighten the cable connector.



**\*NOTE:** Mini-Circuits recommends using a 5/16-inch open end wrench calibrated to 8 inch-pounds maximum torque to prevent damage due to over-torquing the connector.

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