



**MH113\* SERIES**

# MICRO HIGH FREQUENCY RF CABLES

**SPECIFICATIONS**

For complete specifications see [www.samtec.com?MH113](http://www.samtec.com?MH113)

- Outer Contact Material:**  
Au plated Phosphor Bronze
- Center Contact Material:**  
Au plated Phosphor Bronze (MHX)
- Au plated BeCu (SMA)**
- Insulator Material:**  
PBT (MHX)  
PTFE (SMA)
- Operating Temperature:**  
-40 °C to +90 °C
- Voltage Rating:**  
170 V max
- Dielectric Withstanding Voltage:**  
200 Vrms
- Frequency Range:**  
0-6 GHz
- Impedance:**  
50 Ω
- RoHS Compliant:**  
Yes

- 1.13 mm Cable:**
- Impedance:**  
50 Ω
- Capacitance:**  
95 pF/meter
- Max Attenuation (cable only):**  
2 dB @ 1 GHz
- Conductor Size:**  
32 AWG, (1.13 mm) .045" dia.
- Conductor Material:**  
Silver Plated Copper
- Conductor Resistance:**  
0.60 Ω/meter max
- Insulator Diameter:**  
(0.66 mm) .026"
- Insulator Material:** FEP
- Shield Material:**  
Tinned Copper
- Jacket Material:** FEP
- Jacket Diameter:**  
(1.13 mm) .045" dia
- Bend Radius:**  
6.8 mm
- Jacket Temp Rating:**  
-40 °C to +90 °C
- RoHS Compliant:** Yes

**ALSO AVAILABLE (MOQ Required)**

- Additional stripping and tinning options
  - Additional end connector combinations
  - Overall lengths
- Contact Samtec.

**EXTRACTION TOOL**

- -MH1RP = RSP-122893-01

\* MH113 Series was previously RF113 Series

**APPLICATION**

-MH1RP

**MATING SOLUTIONS**

- Micro RF PCB connectors for Micro High Frequency RFs
- MH1RP end mates with RSP-122811-01 (Cycles: 30 max.)

**MH113**

**END 1 CONNECTOR**

**END 2 CONNECTOR**

**OVERALL LENGTH**

Specify END OPTIONS from chart

| END OPTIONS  |  |  |  |
|--|--|--|--|
| <p><b>-MH1RP = MHF1 Type Plug</b><br/>(3.9 μ" (.1 μm) Gold on Center Contact, 1.9 μ" (.05 μm) Gold on Shell)</p>   |  |  |  |
| <p><b>-01BJ1 = SMA Straight Bulkhead Jack</b><br/><b>-01BJ2 = SMA Straight Bulkhead Jack, Reversed Polarity</b><br/><b>-01SB1 = SMA Straight Jack, Sealed Bulkhead</b><br/><b>-01SR1 = SMA Straight Jack, Sealed Bulkhead, Reversed Polarity</b><br/>(30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)</p> |  |  |  |
| <p><b>-SING = Single Ended (End 2 callout)</b></p>   |  |  |  |
| <p><b>XXXXXX = Stripped &amp; Tinned (End 2 callout)</b></p>   |  |  |  |

| STRIPPED & TINNED (Dimensions in mm) |     |     |     |
|--------------------------------------|-----|-----|-----|
| CALLOUT                              | A   | B   | C   |
| -303030                              | 3.0 | 3.0 | 3.0 |
| -303040                              | 3.0 | 3.0 | 4.0 |
| -403030                              | 4.0 | 3.0 | 3.0 |
| -403040                              | 4.0 | 3.0 | 4.0 |
| -404040                              | 4.0 | 4.0 | 4.0 |

Both center conductor and braid shield are stripped, only the center conductor is tinned.