

**MH081\* SERIES**

# MICRO HIGH FREQUENCY RF CABLES

**SPECIFICATIONS**

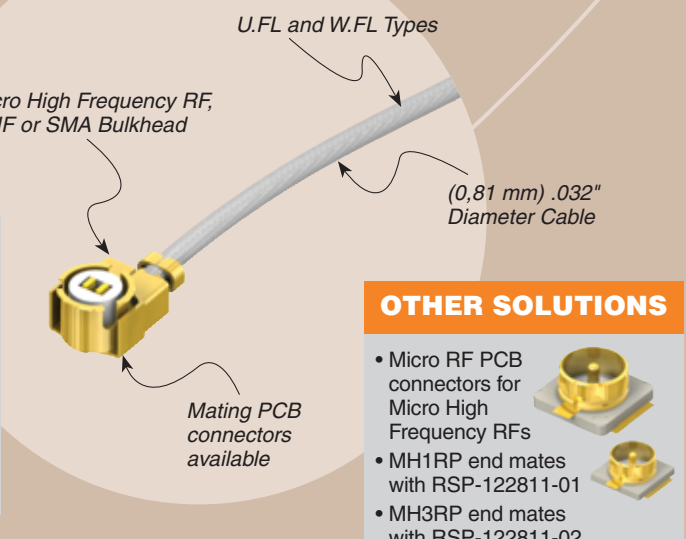
For complete specifications see [www.samtec.com?MH081](http://www.samtec.com?MH081)

**Outer Contact Material:** Au plated Phosphor Bronze  
**Center Contact Material:** Au plated Phosphor Bronze (MHX)  
**Insulator Material:** Au plated BeCu (SMA)  
**Insulator Material:** PBT (MHX)  
 PTFE (SMA)  
**Operating Temperature:** -40°C to +90°C  
**Voltage Rating:** 170V max  
**Dielectric Withstanding Voltage:** 200 Vrms  
**Frequency Range:** 0-3 GHz  
**Contact Resistance:** Center Contact: 6mΩ max  
 Outer Contact: 2mΩ max  
**Insulator Resistance:** 5,000 MΩ  
**Impedance:** 50Ω  
**RoHS Compliant:** Yes

**0,81 mm Cable:**  
**Impedance:** 50Ω  
**Capacitance:** 100 pF/meter  
**Max Attenuation (cable only):** 3.1dB @ 1GHz  
**Conductor Size:** 36 AWG, (0,81 mm) .032" dia.  
**Conductor Material:** Silver Plated Copper  
**Conductor Resistance:** 1.40Ω/meter max  
**Insulator Diameter:** (0,4 mm) .016"  
**Insulator Material:** FEP  
**Shield Material:** Silver Plated Copper  
**Jacket Material:** FEP  
**Jacket Diameter:** (0,81 mm) .032" dia.  
**Jacket Temp Rating:** -40°C to +90°C  
**RoHS Compliant:** Yes

**THINK OUTSIDE THE CATALOG**

- Create a full system: cable assembly and board level mates, 50Ω and 75Ω solutions
- 24-hour samples on standard products
- Visit: [rf.samtec.com](http://rf.samtec.com)

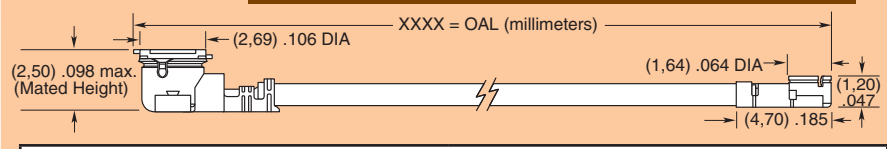


**OTHER SOLUTIONS**

- Micro RF PCB connectors for Micro High Frequency RFs
- MH1RP end mates with RSP-122811-01
- MH3RP end mates with RSP-122811-02



Specify END OPTIONS from chart



END OPTIONS	
-MH1RP = MHF1 Type Plug (30μ" (0,76 μm) Gold on Center Contact, Gold Flash on Shell)	
-MH3RP = MHF3 Type Plug (30μ" (0,76 μm) Gold on Center Contact, Gold Flash on Shell)	
-01BJ1 = SMA, Straight Bulkhead Jack -01BJ2 = SMA, Straight Bulkhead Jack, Reversed Polarity	
-01SB1 = SMA, Straight Jack, Sealed Bulkhead -01SR1 = SMA, Straight Jack, Sealed Bulkhead, Reversed Polarity	
(30μ" (0,76 μm) Gold on Center Contact, Gold Flash on Shell)	
-SING = Single Ended (End 2 callout)	
XXXXXX = Stripped & Tinned (End 2 callout)	

- 0030 = 1.18" (30 mm)
- 0050 = 1.97" (50 mm)
- 0100 = 3.94" (100 mm)
- 0150 = 5.91" (150 mm)
- 0300 = 11.81" (300 mm)

**ALSO AVAILABLE (MOQ Required)**

- Stripped & Tinned: Other sizes or tinning options
- Additional end connector combinations
- Overall lengths
- Contact Samtec.

**EXTRACTION TOOL**

- MH1RP = RSP-122893-01
- MH3RP = RSP-122893-02

\* MH081 Series was previously RF081 Series

**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.

Due to technical progress, all designs, specifications and components are subject to change without notice.