



MICRO HIGH FREQUENCY RF CABLES

SPECIFICATIONS

For complete specifications see www.samtec.com?MH081

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: 0~3 GHz

Contact Resistance: Center Contact: $6 \text{ m}\Omega$ max Outer Contact: $2 \text{ m}\Omega$ max Insulator Resistance:

,000 MΩ Impedance: 50 Ω RoHS Compliant: Yes

0.81 mm Cable:

Impedance: $50~\Omega$ Capacitance: 100~pF/meterMax Attenuation (cable only): 3.1 dB @ 1 GHz Conductor Size: 36 AWG, (0.81 mm) .032" dia. Conductor Material: Silver Plated Copper Conductor Resistance: 1.40 Ω/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. Bend Radius: 5.0 mm Jacket Temp Rating: -40 °C to +90 °C

ALSO AVAILABLE (MOQ Required)

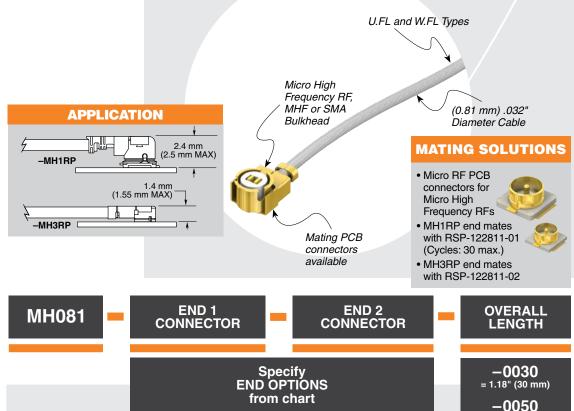
· Additional stripping and tinning options

RoHS Compliant: Yes

- · Additional end connector combinations
- · Overall lengths Contact Samtec.

EXTRACTION TOOLS

- -MH1RP = RSP-122893-01
- -MH3RP = RSP-122893-02
- * MH081 Series was previously RF081 Series



from chart

(2.69) XXXX = OAL (millmeters (1.64)

END OPTIONS				
-MH1RP = MHF1 Type Plug (3.9 μ" (.1 μm) Gold on Center Contact, 1.9 μ" (.05 μm) Gold on Shell)	4			
-MH3RP = MHF3 Type Plug (3.9 μ" (.1 μm) Gold on Center Contact, 1.9 μ" (.05 μm) Gold on Shell)	4			
-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 (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)				
-SING = Single Ended (End 2 callout)	4			
XXXXX = Stripped & Tinned (End 2 callout)	7 B + +C+ + A +			

STRIPPED & TINNED (Dimensions in mm)

= 1.97" (50 mm)

-0100

= 3.94" (100 mm)

-0150

= 5.91" (150 mm)

-0300 = 11.81" (300 mm)

CALLOUT	Α	В	С
-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