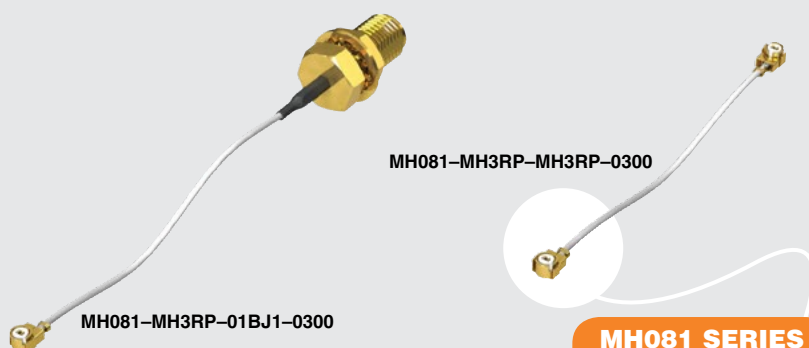




MH081 SERIES

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:

0-6 GHz

Impedance:

50 Ω

RoHS Compliant: Yes

0.81 mm Cable:

Impedance:

50 Ω

Capacitance:

100 pF/meter

Max 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:

PFA

Jacket Diameter:

(0.81 mm) .032" dia.

Bend Radius:

5.0 mm

Jacket Temp Rating:

-40 °C to +90 °C

RoHS Compliant: Yes

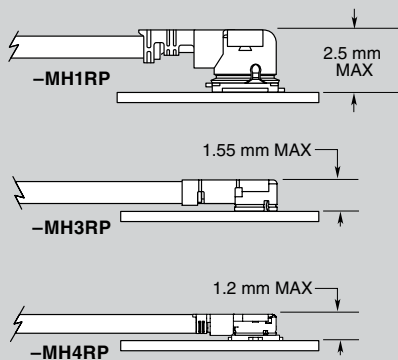
ALSO AVAILABLE (MOQ Required)

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

EXTRACTION TOOLS

- -MH1RP = RSP-122893-01
- -MH3RP = RSP-122893-02
- -MH4RP = RSP-122893-03

APPLICATION



U.F.L and W.F.L Types

Micro High Frequency RF, MHF or SMA Bulkhead

(0.81 mm) .032" Diameter Cable

Mating PCB connectors available

MATING SOLUTIONS

- MH1RP end mates with RSP-122811-01 (Cycles: 30 max.)
- MH3RP end mates with RSP-122811-02
- MH4RP end mates with RSP-122811-03

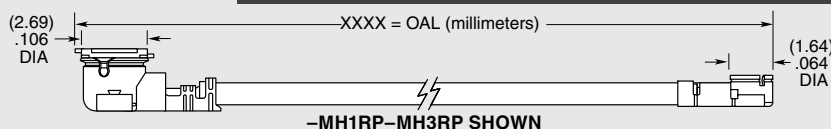
MH081

END 1 CONNECTOR

END 2 CONNECTOR

OVERALL LENGTH

Specify END OPTIONS from chart



-MH1RP-MH3RP SHOWN

END OPTIONS

-MH1RP = MHF1 Type Plug (3.9 μ" (0.1 μm) Gold on Center Contact, 1.9 μ" (0.05 μm) Gold on Shell)	
-MH3RP = MHF3 Type Plug (3.9 μ" (0.1 μm) Gold on Center Contact, 1.9 μ" (0.05 μm) Gold on Shell)	
-MH4RP = MHF4 Type Plug (10 μ" (0.25 μm) Gold on Center Contact, 1.9 μ" (0.05 μm) Gold on Shell) (End 1 MH4RP only available with End 2 MH4RP)	
-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)	
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)

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.

WWW.SAMTEC.COM

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.