

## 50 $\Omega$ MICRO HIGH FREQUENCY RF CABLES TO 6 GHz

# MHF® Cable Assemblies

MH081, MH113



## SPECIFICATIONS

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

#### 0.81 mm Cable:

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

#### 1.13 mm Cable:

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:

Jacket Material: FEP Jacket Diameter: (1.13 mm) .045" dia Bend Radius: 6.8 mm Jacket Temp Rating: -40 °C to +90 °C

### SERIES

**MH081** 

= 0.81 mm Cable

**MH113** 



#### END 2 CONNECTOR

### CONNECTOR

Specify END OPTIONS from chart

### **OVERALL LENGTH**

**-0030** = 1.18" (30 mm)

-0050

= 1.97" (50 mm)

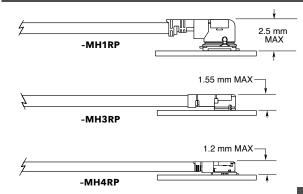
**-0100** = 3.94" (100 mm)

-0150

= 5.91" (150 mm)

**-0300** = 11.81" (300 mm)

## **APPLICATION**



#### **EXTRACTION TOOLS**

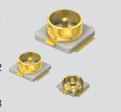
MH1RP = RSP-122893-01 MH3RP = RSP-122893-02 MH4RP = RSP-122893-03

## 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



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#### 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 $\mu$ " (0.1 $\mu$ m) Gold on Center Contact,

1.9 µ" (0.05 µm) Gold on Shell) (MH081 only)

## -MH4RP = MHF4 Type Plug

(10 μ" (0.25 μm) Gold on Center Contact, 1.9 μ" (0.05 μm) Gold on Shell) (MH4RP is not available with MH1RP & MH3RP) (MH081 only)

-01BJ1 = SMA Straight Bulkhead Jack (MH081 only)
-01BJ2 = SMA Straight Bulkhead Jack,
Reversed Polarity

-01SB1 = SMA Straight Jack, Sealed Bulkhead -01SR1 = SMA Straight Jack, Sealed Bulkhead, Reversed Polarity

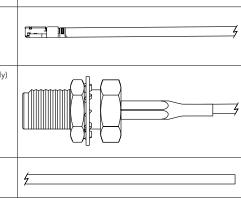
(30  $\mu^{\text{\tiny II}}$  (0.76  $\mu\text{m})$  Gold on Center Contact, Gold Flash on Shell)

## -SING =

Single Ended (End 2 callout)

### XXXXXX =

Stripped & Tinned (End 2 callout)



## STRIPPED & TINNED (Dimensions in 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.

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