

50 Ω 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: FEP

Jacket Diameter:
(1.13 mm) .045" dia

Bend Radius:
6.8 mm

Jacket Temp Rating:
-40 °C to +90 °C

SERIES	END 1 CONNECTOR	END 2 CONNECTOR	OVERALL LENGTH
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MH081
= 0.81 mm Cable

MH113
= 1.13 mm Cable

Specify END OPTIONS from chart

-0030
= 1.18" (30 mm)

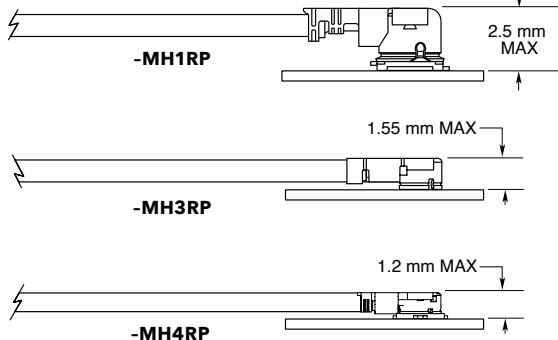
-0050
= 1.97" (50 mm)

-0100
= 3.94" (100 mm)

-0150
= 5.91" (150 mm)

-0300
= 11.81" (300 mm)

APPLICATION



EXTRACTION TOOLS

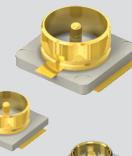
MH1RP = RSP-122893-01

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

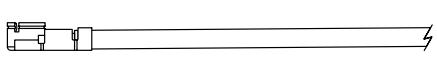
MH4RP end
mates with RSP-122811-03

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)



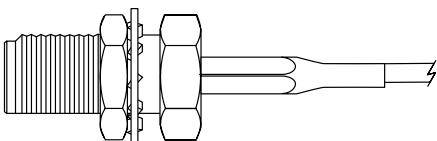
-MH3RP = MHF3 Type Plug
(3.9 μ" (0.1 μm) Gold on Center Contact,
1.9 μ" (0.05 μm) Gold on Shell)
(MH081 only)



-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



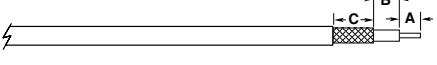
-01SB1 = SMA Straight Jack, Sealed Bulkhead
-01SR1 = SMA Straight Jack, Sealed Bulkhead,
Reversed Polarity

(30 μ" (0.76 μm) 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	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.