



# **MICRO HIGH FREQUENCY RF CABLES**

#### **SPECIFICATIONS**

For complete specifications see www.samtec.com?MH113

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:
170V max
Dielectric Withstanding
Voltage:

200 Vrms Frequency Range: 0~3 GHz

Contact Resistance: Center Contact:  $6m\Omega$  max Outer Contact:  $2m\Omega$  max Insulator Resistance: 5,000 M $\Omega$  Impedance: 500 RoHS Compliant: Yes

# 1.13 mm Cable: Impedance: $50\Omega$

Impedance: 50Ω
Capacitance:
95 pF/meter
Max Attenuation
(cable only):
2dB @ 1 GHz
Conductor Size:
32 AWG, (1.13 mm) .045" dia.
Conductor Material:
Silver Plated Copper
Conductor Resistance:
0.60Ω/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

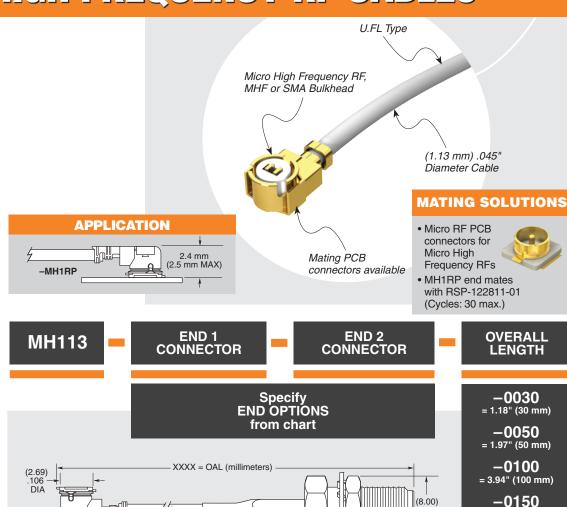
#### ALSO AVAILABLE (MOQ Required)

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

RoHS Compliant: Yes

# EXTRACTION TOOL

- -MH1RP = RSP-122893-01
- \* MH113 Series was previously RF113 Series



## STRIPPED & TINNED (Dimensions in mm)

= 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.

- B |-

**END OPTIONS** 

-MH1RP = MHF1 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)

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