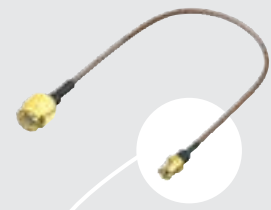




RF047-11RP9-11SP9-0100



RF047-01SP1-11SP9-0100

**RF047 SERIES**

# 50 Ω .047" DIA FLEXIBLE CABLE

**SPECIFICATIONS**

For complete specifications see [www.samtec.com?RF047](http://www.samtec.com?RF047)

**RF Connector:**

**Outer Contact Material:**

Brass (SMA),  
BeCu (HMHF1)

**Contact Material:**

Brass (SMA),  
BeCu (HMHF1)

**Insulator Material:**  
PTFE

**Impedance:**  
50 Ω

**Frequency Range:**  
0~10 GHz (HMHF1)  
0~20 GHz (SMA)

**Dielectric Withstanding:**  
1,000 Vrms (SMA)

**CCA-047 (.047")**

**Cable:**

**Impedance:**  
50 Ω microwave

**Capacitance:**  
95.14 pF/meter

**Max Attenuation (cable only):**

1.15 dB @ 1 GHz for 1 meter

**Conductor Size:**  
28 AWG (0.29 mm) .011" dia.

**Conductor Material:**  
Silver plated copper

**Insulator Material:**  
FEP

**Shield Material:**  
Metallic Alloy

**Jacket Material:**  
FEP

**Jacket Diameter:**  
(1.42 mm) .056" dia.

**Bend Radius:**  
5 mm

**Mates with:**  
SMA, RSP-122811-01

A Samtec original solution:  
**U.FL compatible plug to 500 cycles (HMHF1)**

**MATING SOLUTION**

- Micro RF PCB connectors for Micro High Frequency RFs
- HMHF1 end mates with RSP-122811-01 (Cycles: 30 max.)



**CABLE TYPE**

**END 1 CONNECTOR**

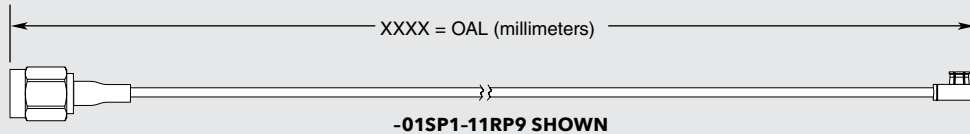
**END 2 CONNECTOR**

**OVERALL LENGTH**

**RF047**  
= (1.2 mm) .047" overshield DIA  
28 AWG Flexible coax cable

Specify END OPTIONS from chart

—"XXXX"  
= Overall Length in millimeters  
-0100 (100 mm)  
3.94" minimum



**ALSO AVAILABLE (MOQ Required)**

- Additional stripping and tinning options

**OTHER SOLUTIONS**

- Cable connector kits (see cable components catalog pages)

**END OPTIONS**

<b>-01SP1 = SMA</b> Straight Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
<b>-11SP9 = HMHF1</b> U.FL Straight Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
<b>-11RP9 = HMHF1</b> U.FL Right-angle Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
<b>-SING =</b> Single Ended (End 2 Callout)	
<b>-XXXXXX =</b> 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.