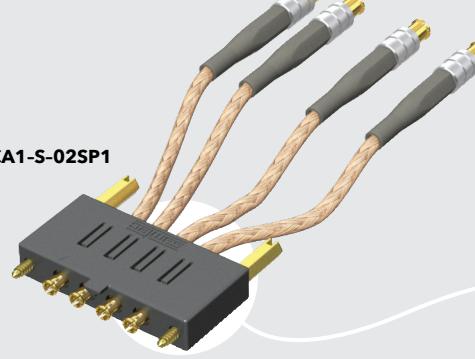


(5.00 mm) .197"

GRF1H-4-0300-1-CA1-S-02SP1



# 50 Ω HYBRID MICRO-MINI RF CABLE

## SPECIFICATIONS

For complete specifications see  
[www.samtec.com?GRF1H-C](http://www.samtec.com?GRF1H-C)

### RF Connector:

#### Shell Material:

Brass  
 (GRF, SMA, MCX, MMCX,  
 SMB, BNC)

#### Insulator Material:

PTFE

#### Contact Material:

Brass  
 (GRF, SMA, MCX, MMCX,  
 SMB-J, BNC-P, TNC-P)

Phosphor Bronze  
 (SMB-P-ST, TNC-J, N Type)

BeCu

(SMB-P-RA)

Copper Alloy

(BNC-J)

#### Operating Temp Range:

-40 °C to +90 °C

#### Impedance:

50 Ω

#### RoHS Compliant:

Yes

### RG 316 Cable:

#### Impedance:

50 Ω

#### Capacitance:

96.432 pF/meter

#### Propagation Delay:

4.83 nsec/meter

#### Max Attenuation

##### (cable only):

1.25 dB @ 1 GHz for 1 meter

#### Conductor Size:

26 AWG,  
 (0.51 mm) .020" dia.

#### Conductor Material:

Silver &amp; Copper Plated Steel

#### Insulator Material:

PTFE

#### Shield Material:

Silver Plated Copper

#### Jacket Material:

FEP

#### Jacket Diameter:

(2.54 mm) .100"

#### Jacket Color:

Amber

#### Bend Radius:

12.8 mm

#### RoHS Compliant:

Yes

## RECOGNITIONS

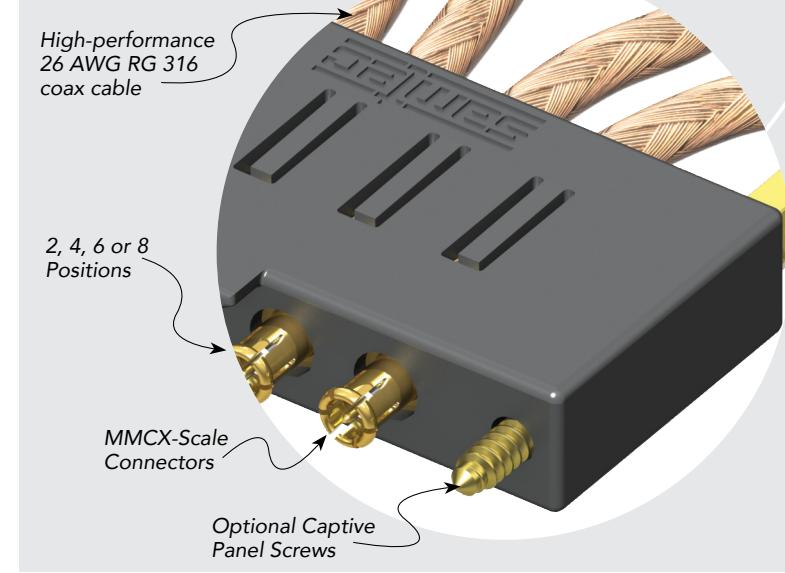
For complete scope of  
 recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)



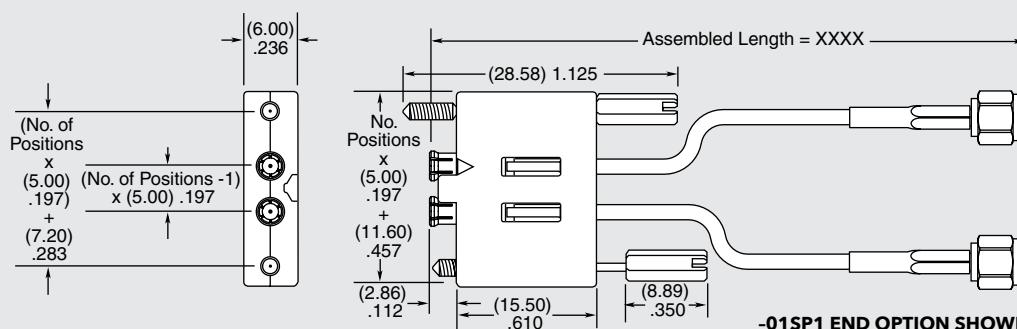
### Notes:

Cable lengths longer than  
 40.00" (1 meter) are not  
 supported with S.I. test data.

This series is non-standard,  
 non-returnable.



GRF1H	NO. OF POSITIONS	ASSEMBLED LENGTH
	-2, -4, -6, -8	<p>-"XXXX"    = Assembled Length in millimeters    -0100 (0100 mm) 3.94" minimum</p>



-01SP1 END OPTION SHOWN

END OPTIONS	END OPTIONS
-01SP1 = SMA Straight Plug (30 μ" (0.76 μ) Gold on Center Contact, Gold Flash on Shell)	-07SP1 = SMB Straight Plug (30 μ" (0.76 μ) Gold on Center Contact, Gold Flash on Shell)
-01RP1 = SMA Right-angle Plug (30 μ" (0.76 μ) Gold on Center Contact, Gold Flash on Shell)	-07RP1 = SMB Right-angle Plug (30 μ" (0.76 μ) Gold on Center Contact, Gold Flash on Shell)
-01PN1 = SMA Straight Panel Mount Jack (30 μ" (0.76 μ) Gold on Center Contact, Gold Flash on Shell)	-02SJ1 = MCX Straight Jack (30 μ" (0.76 μ) Gold on Center Contact, Gold Flash on Shell)

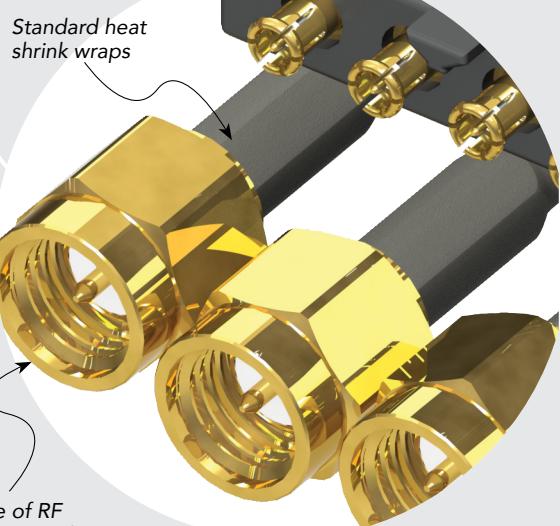


GRF1H-4-0800-1-CA1-01SP1

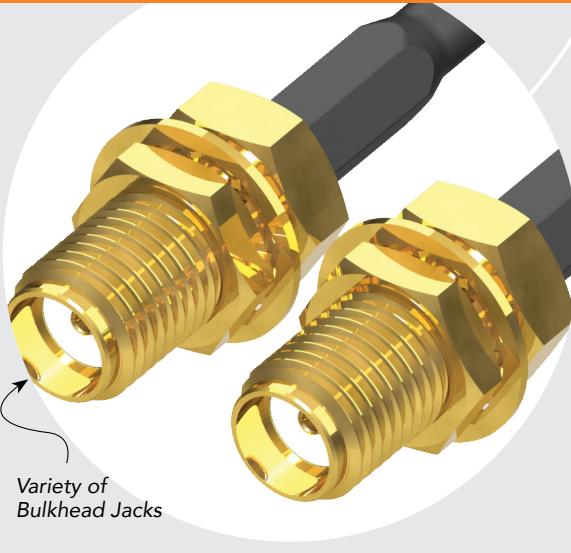


GRF1H-2-0500-1-CA1-S-01BJ1

GRF1H-C SERIES



Choice of RF connector styles



Variety of Bulkhead Jacks

**END 1 PLATING**

**-1**  
= All Gold components

**CABLE TYPE**

**-CA1**  
= RG 316 cable

**SCREW OPTION**

**-S**  
= Captive Panel Screws  
(Leave blank for no Screw Option)

**END 2 OPTION**

Specify  
END OPTIONS  
from chart

END OPTIONS	
<b>-02SP1 = MCX</b> Straight Plug (30 $\mu$ " (0.76 $\mu$ m) Gold on Center Contact, Gold Flash on Shell)	
<b>-02RP1 = MCX</b> Right-angle Plug (30 $\mu$ " (0.76 $\mu$ m) Gold on Center Contact, Gold Flash on Shell)	
<b>-03SP1 = MMCX</b> Straight Plug (30 $\mu$ " (0.76 $\mu$ m) Gold on Center Contact, Gold Flash on Shell)	
<b>-03RP1 = MMCX</b> Right-angle Plug (30 $\mu$ " (0.76 $\mu$ m) Gold on Center Contact, Gold Flash on Shell)	
<b>-04SP3 = BNC</b> Straight Plug (10 $\mu$ " (0.25 $\mu$ m) Gold on Center Contact, Nickel on Shell)	

END OPTIONS	
<b>-05SP3 = TNC</b> Straight Plug (10 $\mu$ " (0.25 $\mu$ m) Gold on Center Contact, Nickel on Shell)	
<b>-01BJ1 = SMA</b> Straight Bulkhead Jack	
<b>-01BR1 = SMA</b> Straight Bulkhead Jack, Reversed Polarity	
<b>-01SB1 = SMA</b> Straight Bulkhead Jack, Sealed	
<b>-01SR1 = SMA</b> Straight Bulkhead Jack, Sealed, Reversed Polarity (30 $\mu$ " (0.76 $\mu$ m) Gold on Center Contact, Gold Flash on Shell)	

END OPTIONS	
<b>-07BJ1 = SMB</b> Straight Bulkhead Jack (30 $\mu$ " (0.76 $\mu$ m) Gold on Center Contact, Gold Flash on Shell)	
<b>-04BJ2 = BNC</b> Straight Bulkhead Jack (30 $\mu$ " (0.76 $\mu$ m) Gold on Center Contact, Nickel on Shell)	
<b>-05BJ3 = TNC</b> Straight Bulkhead Jack (10 $\mu$ " (0.25 $\mu$ m) Gold on Center Contact, Nickel on Shell)	
<b>-06BJ2 = N Type</b> Straight Bulkhead Jack (30 $\mu$ " (0.76 $\mu$ m) Gold on Center Contact, Nickel on Shell)	