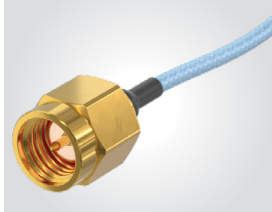


## SMA TO 26.5 GHz

### SMA Cable Assemblies

RF047-A, RF086,  
RF23C, RF25S, RF402,  
RF405, RF180, RF280



### VSWR

**RF047-A:** 1.30 max.  
**RF086:** 1.30 max.  
**RF23C:** 1.30 max.  
**RF180:** 1.35 max.  
**RF280:** 1.35 max.

Additional connector  
options available.  
Contact RFGroup@samtec.com

| SERIES                                                                            | END 1 CONNECTOR                                                                                 | END 2 CONNECTOR | OVERALL LENGTH                                                                    |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|
| <b>RF047-A</b><br>= (1.2 mm) .047" overshield DIA<br>29 AWG millimeter wave cable | <b>-01SP1*</b><br>= SMA Straight Plug                                                           |                 | <b>-“XXXX”</b><br>= Overall Length in millimeters                                 |
| <b>RF086</b><br>= (2.18 mm) .086" overshield DIA<br>23 AWG millimeter wave cable  | <b>-01RP1*</b><br>= SMA Right-angle Plug<br>(RF047-A, RF086, RF23C & RF25S not available)       |                 | -0100 (100 mm) 3.94" minimum<br>(RF047-A, RF086, RF23C,<br>RF25S, RF402, & RF405) |
| <b>RF23C</b><br>= MCW-2350CU-01 millimeter<br>wave cable with copper foil shield  | <b>-01BJ1*</b><br>= SMA Bulkhead Jack<br>(RF402 & RF405 not available)                          |                 | -0152 (152 mm) 5.984" minimum<br>(RF180)                                          |
| <b>RF25S</b><br>= MWC-2550-01 microwave cable<br>with 25 AWG solid FEP dielectric | <b>-01SB</b><br>= Straight Bulkhead Jack, Sealed<br>(RF047-A, RF086 & RF23C only)               |                 | -0200 (200 mm) 7.87" minimum<br>(RF280)                                           |
| <b>RF402</b><br>= RG 402 (.141") 19 AWG<br>semi-flexible microwave cable          | *Remove last "1" from end connector<br>when specifying RF047-A, RF086,<br>RF23C, RF180 & RF280. |                 |                                                                                   |
| <b>RF405</b><br>= RG 405 (.086") 24 AWG<br>semi-flexible microwave cable          |                                                                                                 |                 |                                                                                   |
| <b>RF180</b><br>= (4.52 mm) .178" overshield DIA,<br>16 AWG microwave cable       |                                                                                                 |                 |                                                                                   |
| <b>RF280</b><br>= (7 mm) .277" overshield DIA,<br>11 AWG microwave cable          |                                                                                                 |                 |                                                                                   |

### ALSO AVAILABLE

1.00 mm, 1.35 mm, 1.85 mm, 2.40 mm,  
2.92 mm, SMPM, SMP = RF047-A

1.85 mm, 2.40 mm, 2.92 mm,  
SMPM, SMP = RF086

2.40 mm, 2.92 mm, SMPM, SMP = RF23C

SMP = RF25S, RF405

TNCA, N Type = RF180

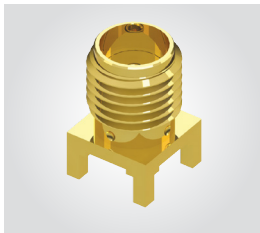
TNCA, N Type = RF280

### SMA Board Connectors

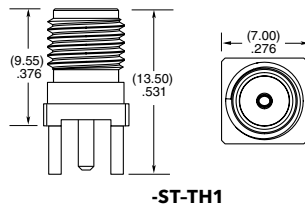
SMA-TH, SMA-SM,  
SMA-MT, SMA-EM

#### Cable Mates:

RF047-A, RF086,  
RF23C, RF25S, RF402,  
RF405, RF180, RF280



| SMA | GENDER              | TYPE                     | PLATING                                                                                                           | ORIENTATION                                                 | TERMINATION                                                                                                                                                                                                                                                                                                         |
|-----|---------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <b>-J</b><br>= Jack | <b>-P</b><br>= PCB Mount | <b>-H</b><br>= 30 μ" (0.76 μm) Gold<br>center contact,<br>3 μ" (0.08 μm) Gold<br>outer contact                    | <b>-ST</b><br>= Straight<br><br><b>-RA</b><br>= Right-angle | <b>-TH1</b><br>= Through-hole<br><br><b>-SM1</b><br>= Surface Mount<br>(-GF-RA only)<br><br><b>-EM1</b><br>= Edge Mount<br>(-ST only)<br><br><b>-EM3</b><br>= Drop-in Edge Mount<br>(-ST only)<br><br><b>-EM-01</b><br>= Edge Mount, 4 post<br>(-ST-HG only)<br><br><b>-MT1</b><br>= Mixed Technology<br>(-ST only) |
|     |                     |                          | <b>-GF</b><br>= 10 μ" (0.25 μm) Gold<br>center contact,<br>3 μ" (0.08 μm) Gold<br>outer contact<br>(-SM1 only)    |                                                             |                                                                                                                                                                                                                                                                                                                     |
|     |                     |                          | <b>-HG</b><br>= 30 μ" (0.76 μm) Gold<br>center contact,<br>10 μ" (0.08 μm) Gold<br>outer contact<br>(-EM-01 only) |                                                             |                                                                                                                                                                                                                                                                                                                     |



-ST-TH1

### SMA Cable Connectors

PRF01



#### CONNECTORS FOR INDUSTRY STANDARD CABLES

|                      |                |
|----------------------|----------------|
| PRF01-P-C-EP-120C-SS | Harbour LL120  |
| PRF01-J-C-EP-142-SS  | Harbour LL142  |
| PRF01-P-C-EP-142-SS  | Harbour LL142  |
| PRF01-P-C-EP-142-RS  | Harbour LL142  |
| PRF01-P-C-EP-142A-SS | Harbour SB142  |
| PRF01-P-C-EP-335-SS  | Harbour LL335  |
| PRF01-P-C-EP-335A-SS | Harbour LL335i |
| PRF01-P-C-EP-190-SS  | Semflex HP190  |
| PRF01-P-C-EP-190-RS  | Semflex HP190  |
| PRF01-P-C-EP-305-SS  | Semflex HP305  |
| PRF01-P-C-EP-290-SS  | Semflex LA290  |

For a complete list of SMA cable connectors, visit [www.samtec.com/PRF01](http://www.samtec.com/PRF01)

