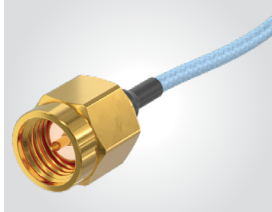


## SMA TO 26.5 GHz

### 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

##### RF047-A

= (1.2 mm) .047" overshield DIA  
29 AWG millimeter wave cable

##### RF086

= (2.18 mm) .086" overshield DIA  
23 AWG millimeter wave cable

##### RF23C

= MCW-2350CU-01 millimeter  
wave cable with copper foil shield

##### RF25S

= MWC-2550-01 microwave cable  
with 25 AWG solid FEP dielectric

##### RF402

= RG 402 (.141") 19 AWG  
semi-flexible microwave cable

##### RF405

= RG 405 (.086") 24 AWG  
semi-flexible microwave cable

##### RF180

= (4.52 mm) .178" overshield DIA,  
16 AWG microwave cable

##### RF280

= (7 mm) .277" overshield DIA,  
11 AWG microwave cable

#### END 1 CONNECTOR

##### -01SP1\*

= SMA Straight Plug

##### -01RP1\*

= SMA Right-angle Plug  
(RF047-A, RF086, RF23C & RF25S not available)

##### -01BJ1\*

= SMA Bulkhead Jack  
(RF402 & RF405 not available)

##### -01SB

= Straight Bulkhead Jack, Sealed  
(RF047-A, RF086 & RF23C only)

\*Remove last "1" from end connector  
when specifying RF047-A, RF086,  
RF23C, RF180 & RF280.

#### OVERALL LENGTH

##### - "XXXX"

= Overall Length in millimeters

-0100 (100 mm) 3.94" minimum  
(RF047-A, RF086, RF23C,  
RF25S, RF402, & RF405)

-0152 (152 mm) 5.984" minimum  
(RF180)

-0200 (200 mm) 7.87" minimum  
(RF280)

#### 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

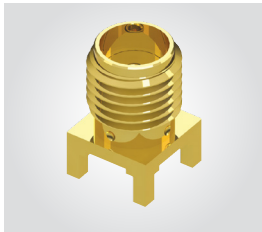
TNCA, N Type = RF280

### SMA Board Connectors

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

#### Cable Mates:

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



#### SMA

#### GENDER

**-J**  
= Jack

#### TYPE

**-P**  
= PCB  
Mount

#### PLATING

**-H**  
= 30 µ" (0.76 µm) Gold  
center contact,  
3 µ" (0.08 µm) Gold  
outer contact

##### -GF

= 10 µ" (0.25 µm) Gold  
center contact,  
3 µ" (0.08 µm) Gold  
outer contact  
(-SM1 only)

#### ORIENTATION

**-ST**  
= Straight

**-RA**  
= Right-angle

#### TERMINATION

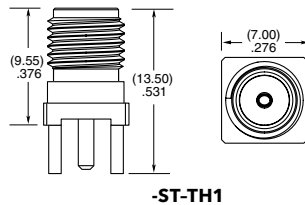
**-TH1**  
= Through-hole

**-SM1**  
= Surface Mount  
(-GF-RA only)

**-EM1**  
= Edge Mount  
(-ST only)

**-EM3**  
= Drop-in Edge Mount  
(-ST only)

**-MT1**  
= Mixed Technology  
(-ST only)



-ST-TH1

### SMA Cable Connectors

PRF01

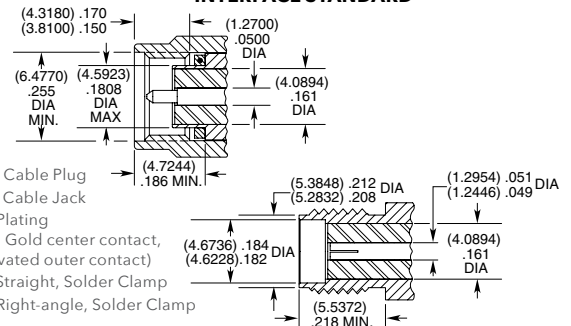


#### CONNECTORS FOR INDUSTRY STANDARD CABLES

|                      |                |
|----------------------|----------------|
| 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  |

P-C = Cable Plug  
J-C = Cable Jack  
EP = Plating  
(50 µ" Gold center contact,  
passivated outer contact)  
SS = Straight, Solder Clamp  
RS = Right-angle, Solder Clamp

#### INTERFACE STANDARD



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