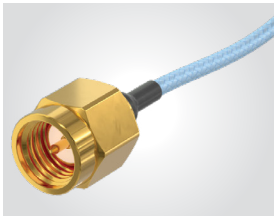
SMA TO 26.5 GHz

SMA Cable Assemblies

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



SERIES	–	END 1 CONNECTOR	–	END 2 CONNECTOR	–	OVERALL LENGTH

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

–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.

–"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)

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

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

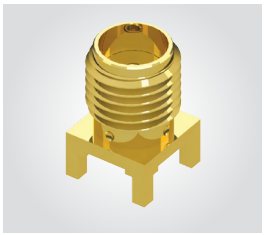
TNCA, N Type = RF180

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

–J
= Jack

–P
= PCB Mount

–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)

–HG
= 30 µ" (0.76 µm) Gold center contact, 10 µ" (0.08 µm) Gold outer contact (-EM-01 only)

–ST
= Straight

–RA
= Right-angle

–TH1
= Through-hole

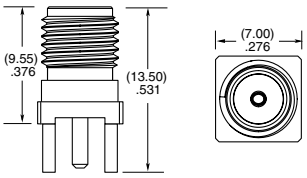
–SM1
= Surface Mount (–GF–RA only)

–EM1
= Edge Mount (–ST only)

–EM3
= Drop-in Edge Mount (–ST only)

–EM-01
= Edge Mount, 4 post (–ST-HG only)

–MT1
= Mixed Technology (–ST only)



-ST-TH1

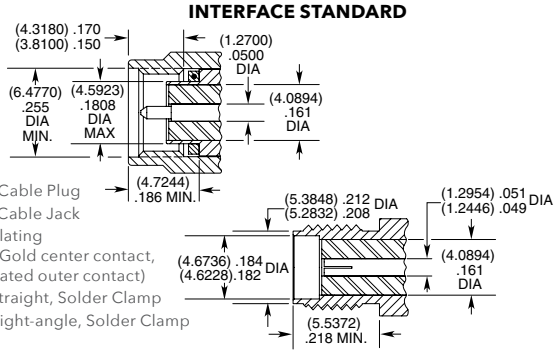
SMA Cable Connectors

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

For a complete list of SMA cable connectors, visit www.samtec.com?PRF01

INTERFACE STANDARD



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

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.