

Conectores de RF tipo SMA - IEC 169-15

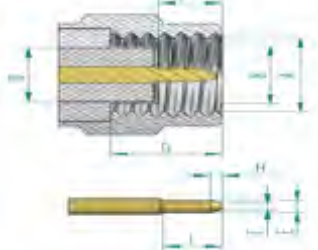
Conectores de RF tipo SMA - IEC 169-15

RF Connectors SMA type - IEC 169-15

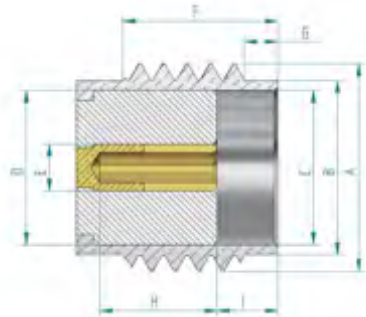
Descrição da Norma: Destinada para conectores da série IEC 169-15 e MIL-C 39012
Descripción de la Norma: Destinado para los conectores de la serie IEC 169-15 y MIL-C 39012
Standard description: Intended for connector's series IEC 169-15 and MIL-C 39012

- **Características Dimensionais:**
- **Características Dimensionales:**
- **Dimensional Characteristics:**

- ❖ **Conector SMA macho:**
- ❖ *Conector SMA macho:*
- ❖ *SMA male connector:*



- ❖ **Conector SMA fêmea:**
- ❖ *Conector SMA hembra:*
- ❖ *SMA female connector:*



- **Características mecânicas dos materiais:**
- *Características mecánicas de los materiales:*
- *Mechanical properties of materials:*

Ref.	Máx.	Mín.
A	1/4"-36 UNS – 2A	
B	4,58	4,45
C	0,38	-
D	4,17	-
E	0,92	0,87
F	4,80	3,45
G	4,50	4,25
H	-	0,38
I	2,60	2,40

Ref.	Máx.	Mín.
A	1/4"-36 UNS – 2A	
B	5,45	5,25
C	4,64	4,48
D	4,17	-
E	1,29	1,22
F	-	5,40
G	-	0,38
H	-	2,90
I	1,98	1,88

Componente Componente Component	Material	Tratamento superficial Tratamiento superficial / Plating
Contato macho Contacto macho Male contact	Latão Latón Brass	Ouro / Oro / Gold
Contato fêmea Contacto hembra Female contact	Cobre Berílio Cobre berílico Beryllium copper	Ouro / Oro / Gold
Isolação Aislamiento Insulation	Teflon – PTFE	Natural
Outras partes Otras partes Other parts	Latão Latón Brass	Níquel/Ouro Níque/Oro Nickel/Gold
Elemento de Vedação Elemento de sellado Sealing element	Borracha Caucho Rubber	Natural

- **Características Técnicas:**
- *Características técnicas:*
- *Technical Characteristics:*

- ❖ **Impedância / Impedancia / Impedance:** 50 Ω
- Frequência de operação / Frecuencia de operación / Operating frequency:
 - 0 – 12 GHz em cabos flexíveis / en cable flexibles / for flexible cable.
 - 0 – 18 GHz em cabos semi rígidos / en cable semi rigid / for semi rigid cables
- Tensão máxima de operação / Tensión máxima de operación / Maximum operating frequency: 720 Volts
- Tensão máxima de teste / Tensión máxima de prueba / Maximum tension test: 1000 Volts rms.
- ❖ **Resistência de contato / Resistencia de los contactos / Contacts resistance:**
 - Contato central / Contacto central / Central contact: $\leq 3 \text{ m}\Omega$
 - Contato externo / Contacto externo / External contact: $\leq 2,5 \text{ m}\Omega$
 - Resistência de isolação / Resistencia de aislamiento / Insulation resistance: $\geq 5 \text{ G}\Omega \text{ min}$
 - Resistência de isolação após conexão / Resistencia de aislamiento después de conectar / Insulation resistance after connection: $\geq 200 \text{ M}\Omega \text{ min}$
 - Temperatura de operação / Temperatura de operación / Operating temperature: $-65^\circ\text{C} \sim 165^\circ\text{C}$
- ❖ **VSWR:** $= 1,05 + 0,01 f(\text{GHz})$
 - Perda de retorno / Pérdida de retorno / Return loss: 20db até 4GHz
 - Perda de inserção / Pérdida de inserción / Insertion loss: $0,1 \sqrt{f(\text{GHz})} \text{db}$



CONECTOR SMA FÊMEA RETO PRENSA CABO

CONECTOR SMA HEMBRA, RECTO, CLAMP
SMA CONNECTOR, FEMALE, STRAIGHT, CLAMP

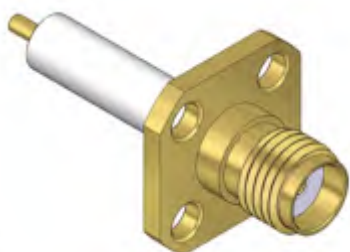
USF 00051 = P/ Cabo / Cable RG 58
USF 00051-B = P/ Cabo / Cable RG 08



CONECTOR SMA FÊMEA REVERSO (PINO MACHO) PRENSA CABO

USF 00051-R = P/ Cabo / Cable RG 58
USF 00051-R-A = P/ Cabo / Cable RGC 08

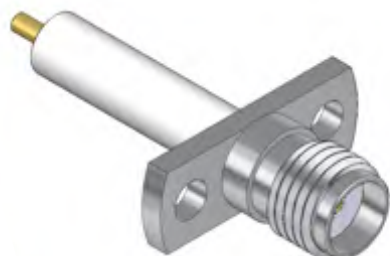
CONECTOR SMA HEMBRA REVERSO
(PIN CENTRAL MACHO), CLAMP
SMA CONNECTOR, REVERSE FEMALE
(MALE CENTER PIN), CLAMP



CONECTOR SMA FÊMEA COM BASE QUADRADA PINO LONGO

USF 00054 (PINO/PIN 18mm)
USF 00054-P = (Modelo menor/
Modelo menor / smaller type)
Pino / PIN 9,8mm

CONECTOR SMA HEMBRA, CON BASE
CUADRADA Y PIN CENTRAL LARGO.
SMA CONNECTOR, FEMALE WITH SQUARED
BASE AND LONG CENTER PIN.



CONECTOR SMA FÊMEA COM BASE RETANGULAR PINO LONGO

USF 00055
(PINO/PIN 18mm)

CONECTOR SMA HEMBRA, CON BASE
RECTANGULAR Y PIN CENTRAL LARGO.
SMA CONNECTOR, FEMALE, WITH
RECTANGULAR BASE AND LONG CENTER PIN.



CONECTOR SMA FÊMEA REVERSO (PINO MACHO) COM BASE RETANGULAR

USF 00055-R

CONECTOR SMA, HEMBRA REVERSO
(PIN CENTRAL MACHO), CON BASE RECTANGULAR
SMA CONNECTOR, REVERSE FEMALE
(MALE CENTER PIN), WITH RECTANGULAR BASE



CONECTOR SMA FÊMEA RETO DE CRIMP PINO FIXO

USF 00056 = P/ Cabo / Cable RG 58
USF 00056-B = P/ Cabo / Cable RG 174

CONECTOR SMA, HEMBRA, RECTO,
CRIMP CON PIN CENTRAL FIJO.
SMA CONNECTOR, FEMALE, STRAIGHT,
CRIMP WITH FIXED CENTER PIN.



USF 00056-R = P/ Cabo / Cable RG 58
USF 00056-RB = P/ Cabo / Cable RG 174

CONECTOR SMA FÊMEA REVERSO (PINO MACHO) DE CRIMP PINO FIXO

CONECTOR SMA, HEMBRA REVERSO
(PIN CENTRAL MACHO),
CRIMP, CON PIN CENTRAL FIJO.
SMA CONNECTOR, REVERSE FEMALE
(MALE CENTER PIN),
CRIMP, WITH FIXED CENTER PIN.



USF 00057

ADAPTADOR TRI-FÊMEA REVERSO (PINO MACHO)

ADAPTADOR SMA TRI-HEMBRA REVERSO
(PIN CENTRAL MACHO).
SMA ADAPTER REVERSE TRI-FEMALE
(MALE CENTER PIN).



USF 00059 = P/ Cabo / Cable RG58
USF 00059-B = P/ Cabo / Cable RG174

CONECTOR SMA FÊMEA DE CRIMP P/ PAINEL

CONECTOR SMA HEMBRA CRIMP PARA PAINEL.
CONNECTOR SMA FEMALE CRIMP FOR PANEL.



USF 00059-R – P/ Cabo / Cable RG58
USF 00059-RB – P/ Cabo / Cable RG 174

CONECTOR SMA FÊMEA REVERSO (PINO MACHO) PARA PAINEL

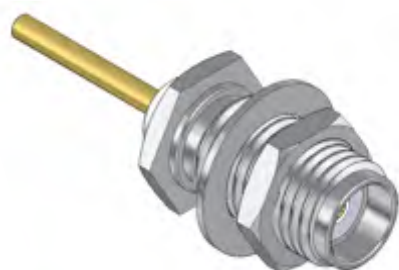
CONECTOR SMA, HEMBRA REVERSO
(PIN CENTRAL MACHO), PARA PAINEL.
SMA CONNECTOR, REVERSE FEMALE
(MALE CENTER PIN), FOR PANEL.



USF 00060

ADAPTADOR 2 FÊMEAS REVERSO (PINO MACHO) E 1 MACHO REVERSO (PINO FÊMEA)

ADAPTADOR SMA 2 HEMBRAS REVERSO
(PIN CENTRAL MACHO) Y 1 MACHO REVERSO
(PIN CENTRAL HEMBRA).
SMA ADAPTER, 2 REVERSE FEMALE (MALE CENTER PIN)
AND 1 REVERSE MALE (FEMALE CENTER PIN).



USF 00061 - PINO / PIN 15,00mm

CONECTOR SMA FÊMEA RETO PARA PAINEL COM PORCA

CONECTOR SMA HEMBRA, RECTO,
CON TUERCA, PARA PAINEL.
SMA CONNECTOR, FEMALE, STRAIGHT,
WITH NUT, FOR PANEL.



USF 00061-A

CONECTOR SMA FÊMEA RETO PARA PAINEL COM PORCA SEM BASE

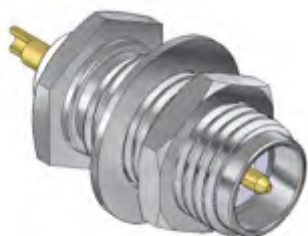
CONECTOR SMA HEMBRA RECTA CON
PANEL CON TUERCA SIN BASE.
SMA FEMALE CONNECTOR STRAIGHT TO
PANEL WITH NUT WITHOUT BASE.



USF 00061-B

CONECTOR SMA RETO FÊMEA REVERSO PARA PAINEL COM BASE SEXTAVADA

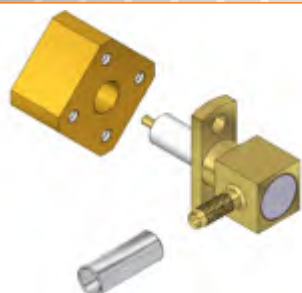
CONECTOR SMA, RECTO HEMBRA
REVERSO PARA PANEL, BASE HEX.
SMA CONNECTOR STRAIGHT,
REVERSE FEMALE, FOR PANEL BASED HEX.



USF 00061-C

CONECTOR SMA FÊMEA REVERSO PARA PAINEL COM ROSCA E PINO PARA SOLDAR

CONECTOR SMA HEMBRA REVERSO PARA
PAINEL CON ROSCA Y PIN CENTRAL DE SOLDAR.
SMA CONNECTOR, REVERSE FEMALE, FOR
PANEL WITH THREAD AND WELDING CENTER PIN.



USF 00064

CONECTOR SMA ANGULAR COM BASE RETANGULAR PARA PCI

CONECTOR SMA, ACODADO, CON BASE
RECTANGULAR PARA PCI.
SMA CONNECTOR, ANGULAR WITH
RECTANGULAR BASE FOR PCI.



USF 00065

ADAPTADOR SMA ANGULAR MACHO X FÊMEA

ADAPTADOR SMA, ACODADO, MACHO X HEMBRA.
SMA ADAPTER, ANGULAR, MALE X FEMALE.



USF 00065-R

ADAPTADOR ANGULAR REVERSO (MACHO PINO FÊMEA X FÊMEA PINO MACHO)

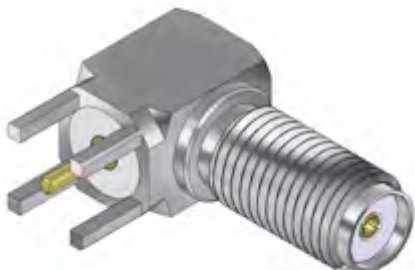
ADAPTADOR SMA REVERSO, ACODADO
(MACHO - PIN CENTRAL HEMBRA X HEMBRA
- PIN CENTRAL MACHO).
REVERSE SMA ADAPTER, ANGULAR
(MALE - FEMALE CENTER PIN X FEMALE -
MALE CENTER PIN).



CONECTOR FÊMEA RETO MONTAGEM SOLDADA

CONECTOR SMA HEMBRA, RECTO MONTAJE POR SOLDADA.
SMA CONNECTOR, FEMALE, STRAIGHT, WELDING MOUNT.

USF 00067 - P/ Cabo /Cable RG-405/u



CONECTOR SMA FÊMEA ANGULAR PARA PCI

CONECTOR SMA, HEMBRA ACODADO, PARA PCI.
SMA ANGULAR CONNECTOR, FEMALE, FOR PCI.

USM 00069



CONECTOR SMA MACHO RETO PRENSA CABO REVERSO (PINO FÊMEA)

CONECTOR SMA, MACHO REVERSO
(PIN CENTRAL HEMBRA), RECTO, CLAMP.
SMA CONNECTOR, REVERSE MALE
(FEMALE CENTER PIN), STRAIGHT, CLAMP.

Cabo /Cable

USM 00050-R = RG58

USM 00050-R-A = RG59

USM 00050-R-B = RG174/316

USM 00050-R-C = RGC 06

USM 00050-R-E = RG213



CONECTOR SMA MACHO RETO PRENSA CABO

CONECTOR SMA MACHO, RECTO, CLAMP
SMA CONNECTOR, MALE, STRAIGHT, CLAMP

USM 00050 - M = P/ Cabo /Cable RG 58

USM 00050 - MB = P/ Cabo /Cable RG 174

USM 00050 - M-E = P/ Cabo /Cable RG 58 (Rosca esquerda)
(Rosca izquierda / Left handed thread)

USM 00063 = P/ Cabo /Cable RG213



CONECTOR SMA MACHO RETO CRIMP

CONECTOR SMA, MACHO, RECTO, CRIMP.
SMA CONNECTOR, MALE, STRAIGHT, CRIMP.

USM 00052-M = P/ Cabo /Cable RG 58



CONECTOR MACHO REVERSO (PINO FÊMEA) DE CRIMP

CONECTOR SMA, MACHO REVERSO
(PIN CENTRAL FEMEA), CRIMP.
SMA CONNECTOR, REVERSE MALE
(FEMALE CENTER PIN), CRIMP.

USM 00052-R = P/ Cabo /Cable RG 58



CONECTOR SMA MACHO RETO DE SOLDA

CONECTOR SMA, MACHO, RECTO DE SOLDA.
SMA CONNECTOR, MALE, STRAIGHT, FOR WELDING.

USM 00052-S-R = P/ Cabo /Cable EZ141



CONECTOR SMA MACHO DE CRIMP PINO FIJO

CONECTOR SMA, MACHO, CRIMP, PIN CENTRAL FIJO.
SMA CONNECTOR, MALE, CRIMP, FIXED CENTER PIN.

USM 00053 = P/ Cabo /Cable RG58

USM 00053-B = P/ Cabo /Cable RG 174

USM 00053-B-E = P/ Cabo /Cable RG 174 (ROSCA ESQUERDA /
ROSCA IZQUIERDA / LEFT HANDED THREAD)



CONECTOR SMA MACHO REVERSO (PINO FÊMEA) DE CRIMP PINO FIJO COM FRESADO LATERAL

CONECTOR SMA MACHO REVERSO
(PIN CENTRAL HEMBRA), CRIMP,
PIN CENTRAL FIJO Y CON FRESADO LATERAL.
SMA CONNECTOR, REVERSE MALE
(FEMALE CENTER PIN), CRIMP, FIXED CENTER
PIN WITH LATERAL MILLED.

USM 00053-R = P/ Cabo /Cable RG 58

USM 00053-RB = P/ Cabo /Cable RG 174

USM 00053-RC = P/ Cabo /Cable RGC 06



CONECTOR MACHO ANGULAR DE CRIMP

CONECTOR SMA, MACHO, ACODADO DE CRIMP.
SMA CONNECTOR, MALE, ANGULAR, CRIMP.

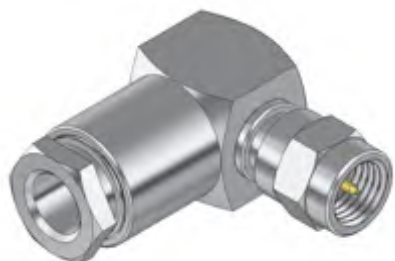
USM 00058 – P/ Cabo /Cable RG58



CONECTOR SMA MACHO ANGULAR REVERSO (PINO FÊMEA) DE CRIMP

CONECTOR SMA, MACHO REVERSO
(PIN CENTRAL HEMBRA), CRIMP.
SMA CONNECTOR, REVERSE MALE
(FEMALE CENTER PIN), CRIMP.

USM 00058-R = P/ Cabo / Cable RG058

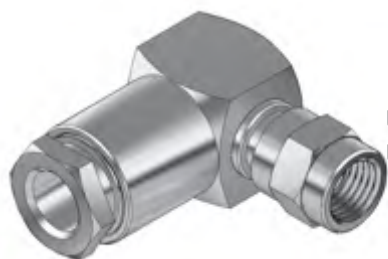


CONECTOR SMA MACHO ANGULAR PRENSA CABO

CONECTOR SMA, MACHO, ACODADO,
CLAMP.
SMA CONNECTOR, MALE, ANGULAR,
CLAMP.

USM 00062 = P/ Cabo / Cable RG58

USM 00062-B = P/ Cabo / Cable GR 174



USM 00062-R - P/ Cabo /Cable RG58
USM 00062-R-B - P/ Cabo /Cable RG174

CONECTOR SMA MACHO REVERSO ANGULAR PRENSA CABO

CONECTOR SMA, MACHO REVERSO,
ACODADO, CLAMP.
SMA CONNECTOR, REVERSE MALE,
ANGULAR, CLAMP



USM 00066-R

CONECTOR SMA MACHO REVERSO PARA PAINEL COM BASE RETANGULAR

CONECTOR SMA, MACHO REVERSO,
PARA PANEL CON BASE RECTANGULAR.
SMA CONNECTOR, REVERSE MALE FOR
PANEL WITH RECTANGULAR BASE.



USM 00068 = P/ Cabo /Cable RG 58

CONECTOR SMA ANGULAR ESPECIAL DE SOLDA

CONECTOR SMA ESPECIAL, ACODADO,
PARA SOLDA.
SPECIAL SMA CONNECTOR, ANGULAR,
FOR WELDING.