SMP

Push-On Connectors & Adapters of Type SMP

THE SMP (**S**ub-**M**iniature-**P**ush-On) is a 2.4 mm connector, using solid dielectric interface. The connector is extremely small and therefore allows high density packaging. It was originally designed to permit the female connector to incline freely in direction while the mechanical and electrical connection remains maintained. The male connector is available in **smooth bore** for easy connection and disconnection, with **limited detent**, characterized by a certain insertion and withdrawal force, and with **full detent**, needing high insertion force and a substantial withdrawal force, usually requiring a tool for disconnection. The full detended SMP connection is suitable for mobile applications, extreme shock and vibration requirements. SMP connectors are offered for applications to 18.0 GHz and 26.5 GHz, precision designs are even operating to 40.0 GHz. Spectrum´s SMP connectors are meeting interface dimensions to DESC specifications 94007 and 94008. Spectrum Elektrotechnik GmbH has developed SMP test connectors as well, and designed and manufactures SMP calibration kits. Spectrums SMP test connectors and calibration components are supplied with an additional thread that can be employed to ensure perfect and repeatable mating during calibration.

SMP (**S**ub-**M**iniature-**P**ush-On) connectors are specifically used for packaging and interconnecting low power microwave modules, drawers and racks in state-of-the-art systems that do not allow longer system down time, and are built on a modular basis. **SMP** push-on connectors allow replacement of faulty microwave modules within seconds. A typical method of interlocking modules is using lock screws.

SMP (**S**ub-**M**iniature-**P**ush-On) connectors are also available as cable connectors for several smaller standard **semi-rigid** cables of diameters 0.047" and 0.085", **low density semi-rigid** cables, standard **flexible** cables and **low density flexible** cables. The availability of **SMP** connectors allows easy interconnection of microwave power components. Standard units are available as straight or mitred right angled connectors, in bulkhead or panel mount or flanged designs for solder or compression clamp attachment.

SMP (**S**ub-**M**iniature-**P**ush-On) connectors can be obtained hermetically sealed for pressing or threading into the component housing,

SMP (**S**ub-**M**iniature-**P**ush-On) connectors are available as circuit board connectors, in a variety of straight, mitred right angle and flange mount designs.

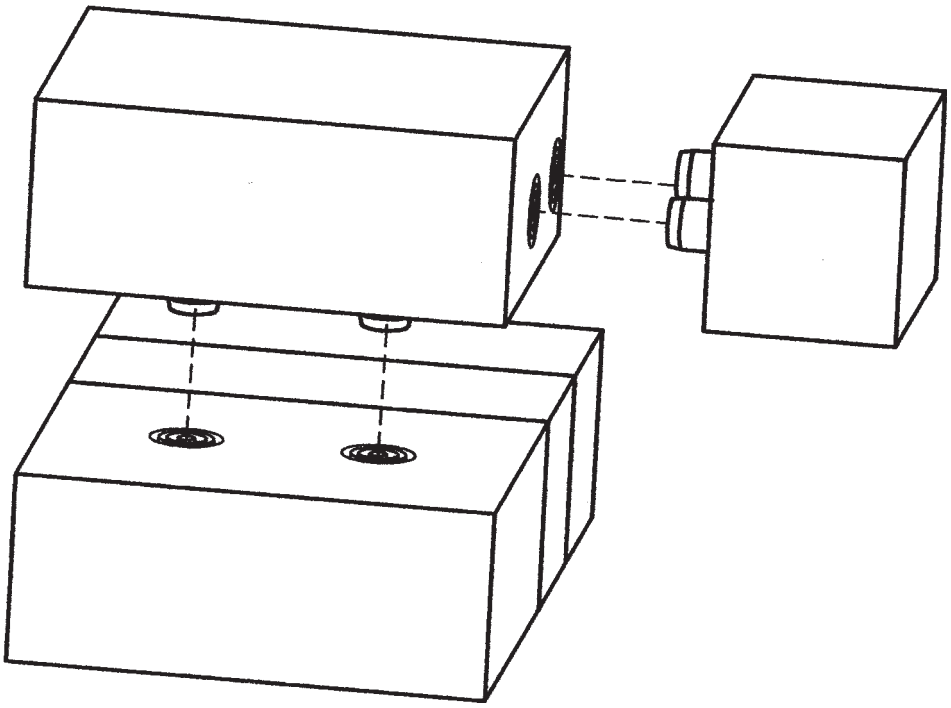
Some test equipment may not be supplied with **SMP** test port connectors. Therefore an adequate number of between series instrument grade adapters to other important connector series are available, such as 2.9mm, 7mm and SMA.

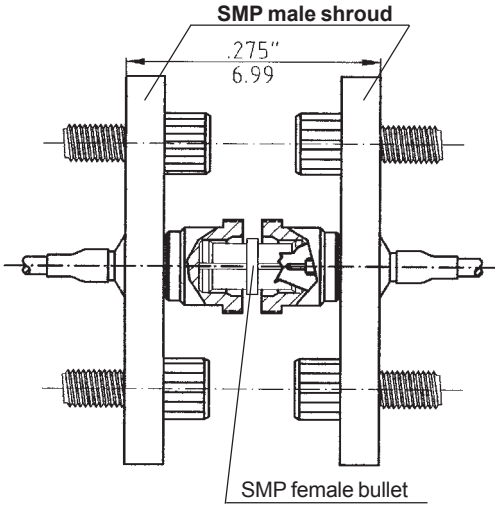
Spectrum Elektrotechnik GmbH is a very innovative company, offering special services in engineering in order to meet the customer's needs to perfection.

Applications & Features, Type SMP

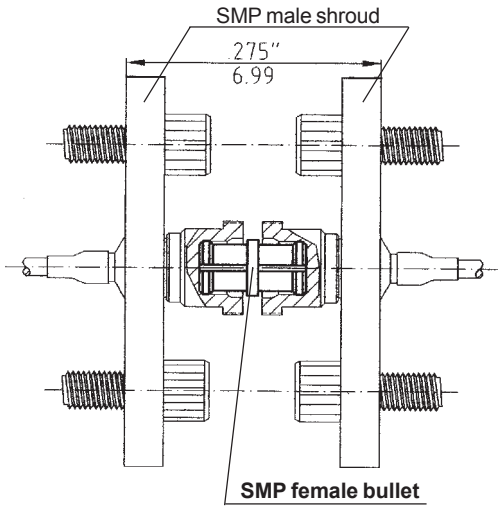
When using blind mate connectors in an application, careful consideration has to be given to choosing the right connector series, the appropriate connector model within that series, and the correct mounting features. Spectrum Elektrotechnik Gmbh does offer besides the **SMP** series, also **BMA** and **SBX, SBY** blind mate connectors, and all those series are shown in this Handbook. This makes it easy for the customer to identify the best connector or connectors for his system. A system also may use several or all of the blind mate connectors offered. Important parameters for identifying the proper connector and its series are:

* **Power requirement**
* **Operating frequency**
* **Rigid or float mount connectors**
* **Connector-to-connector fixed tolerances**
* **Connector-to-connector float tolerances**
* **Mating forces**
* **Float mount spring loading**
* **Connector packaging density in multiple connector arrays**
* **Panel deflection**

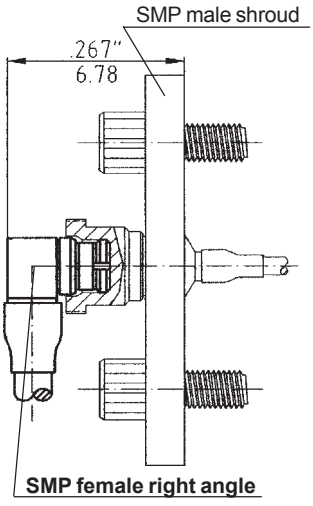




SHROUDS:
The male flange mount SMP connector is called the "**shroud**". It is mounted to modules and connects at the other end to cable or stripline, etc. Inserting the "bullet" between two **shrouds** provides a typical module to module separation of 0.275 inches (7.0 mm). The "**shrouds**" are made of passivated stainless steel and surround a center conductor of 0.015 inches (0.38 mm). **Shrouds** are available full detent, limited detent, or with smooth bore. For specifications, or further details please refer to the SMP specifications at the beginning of this section.

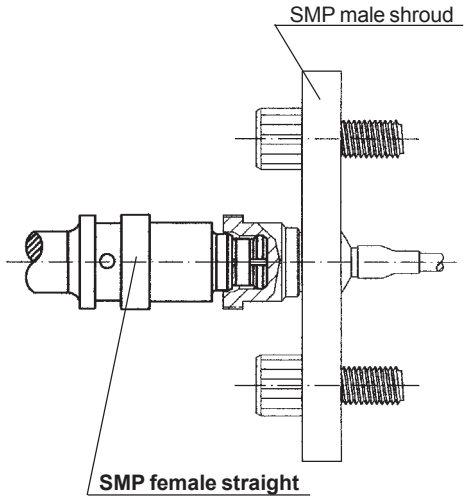


BULLETS:
The SMP female/female adapter is called the "**bullet**". It mates with the SMP male connector. Inserting the "**bullet**" between two male flange mount connectors, the "shrouds", provides a typical module to module separation of 0.275 inches (7.0 mm). Shorter or longer versions of "**bullets**" are available, or can be designed upon customer request. The outer and center conductors of the "**bullets**" are made from beryllium copper, heat treated and gold plated. For specifications, or further details please refer to the SMP specifications at the beginning of this section.

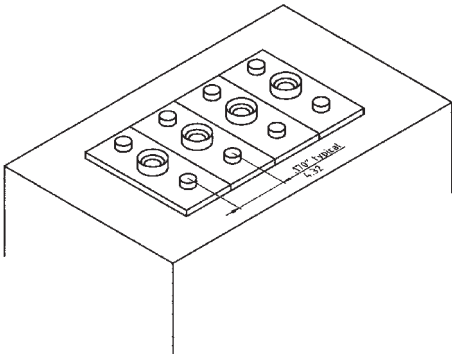


RIGHT ANGLE CONNECTORS:
SMP **female right angle connectors** are availabe for semi rigid cable and for flexible cable as well. They are usually connecting to modules, e.g. mating with the SMP flange mount male connector, the shroud. The right angle connectors are needed for limited space requirements. Very short right angle connectors with lowest profile were developed for even tighter space requirements. For the mating shroud it has to be decided carefully, whether full detent, limited detent or smooth bore should be used. This depends mainly on the application. A test cable being connected/disconnected many times will prefer smooth bore, while the use in mobile equipment may require full detent.

Applications & Features, Type SMP

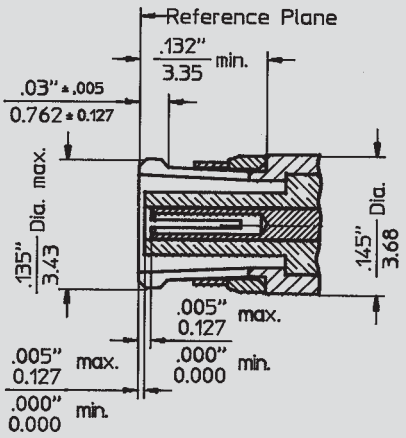


Straight Connectors:
SMP **female straight connectors** are availabe for semi rigid cable and for flexible cable as well. They are usually connecting to modules, e.g. mating with the SMP flange mount male connector, the shroud. A variety of mating shrouds are available. It has to be decided carefully, whether a shroud with full detent, limited detent or smooth bore should be used. It depends mainly on the application. A test cable being connected/disconnected many times will prefer smooth bore, while the use in mobile equipment may require full detent.



Dense Packaging:
The SMP miniature high performance interconnect system reduces space requirements. It allows for dense packaging with connector spacing as close as 0.170 inches (4.3mm). For applications that require hermetic sealing, the flange end mounts over 0.015 inches (0.38mm) glass seal pin.

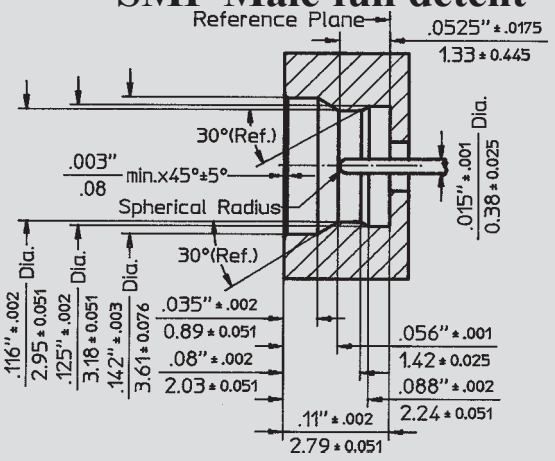
SMP Female



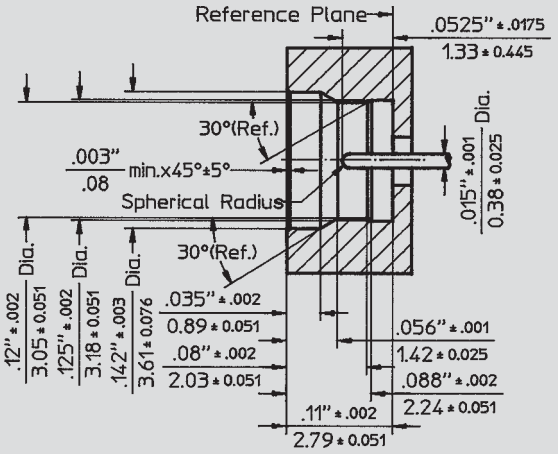
Dimensions shown are inches over millimeters.

Frequency: DC - 40.0 GHz min.

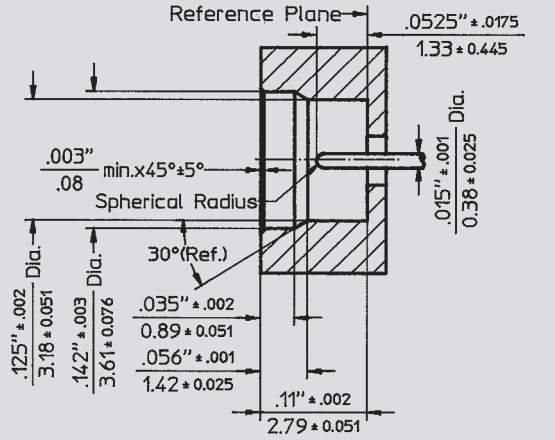
SMP Male full detent



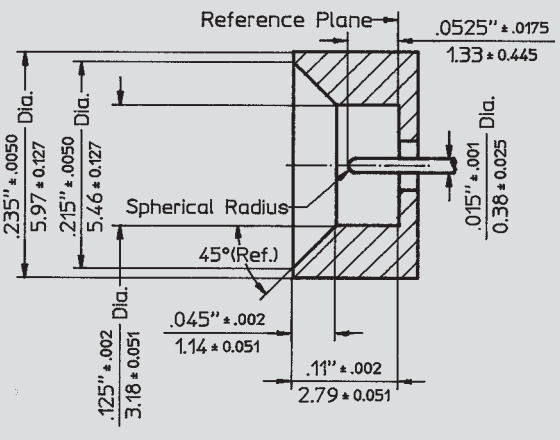
SMP Male limited detent



SMP Male smooth bore



SMP Male



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Spectrum Elektrotechnik GmbH

Specifications SMP

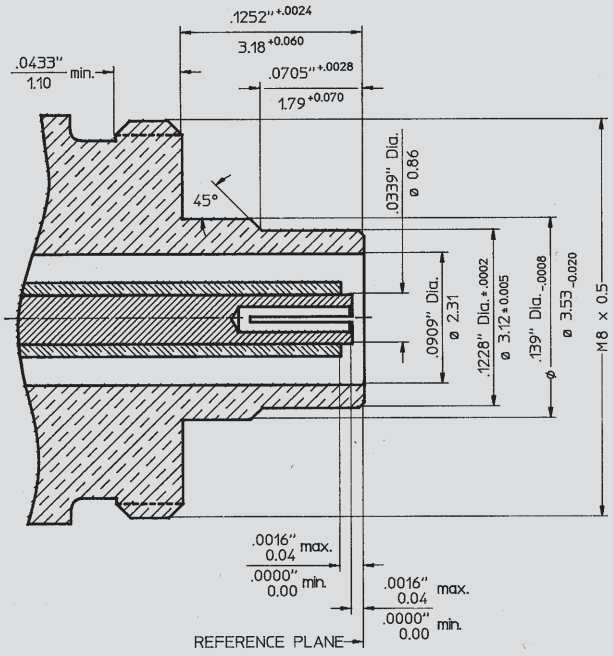
The specifications below are general specifications for all SMP connectors. Specific Data for VSWR, Insertion loss, R.F. leakage etc., are available from the factory upon request. Specifications in the following table are recommended for any procurement documents or drawings. In the event of any conflict between these specifications and General Specifications DESC 94007 and DESC 94008, these specifications shall govern. These specifications are subject to change according to the latest revision.

REQUIREMENT		GENERAL SPECIFICATIONS
GENERAL		
Standard Materials		STEEL corrosion resistant 1.4305 per DIN 17440 (QQ-S-764, class 303 or ASTM-A-582-80). ALUMINUM AlMg4.5Mn per DIN 1725, AlMgSi0.5 per DIN 1725, AlMgSi1 per DIN 1725 (6061-T6 per QQ-A-225/8). BRASS CuZn39Pb3 per DIN 17660 (QQ-B-626, half hard). COPPER BERYLLIUM 33-25 CuBe2Pb H per DIN 17666 (QQ-C-530). TFE Fluorocarbon per DIN 52900 (MIL-P-19468 and L-P403). SILICONE RUBBER per DIN 3771 (MIL-R-5847 and ZZ-R-765, Class II B,) Grade 50 - 75. BORRIUM NITRITE Dielectric for high power applications per inhouse specification.
Finish for	COPPER BERYLLIUM	Center Contacts shall be gold plated to a minimum thickness of .00005 inch (1.27 µm) in accordance with MIL-G-45204, Type II, Grade C. Outer conductors shall be gold plated to a thickness of .00003 inch (0.8 µm) per MIL-G-45204 , Type II, Grade C, or silver plated to a thickness of .0001 inch (2.5 µm) per QQ-S-365.
	STAINLESS STEEL	Shall be passivated per QQ-P-35 or gold plated to a thickness of .00003 inch (0.8 µm) per MIL-G-45204, Type II, Grade C.
	ALUMINUM	Conductive Parts shall have an iridited finish per MIL-C-5541. Other parts, such as Coupling Nuts and Back-Bodies shall be anodized per MIL-A-8625.
	BRASS	Gold plated to a thickness of .00003 inch (0.8 µm) min. per MIL-45204, Type II, Grade C, or nicle plated to a thickness of .0002 inch (5µm) per QQ-N-290, grade E, or silver plated to a thickness of .0001 inch (2.5 µm) per QQ-S-365.
	VARIOUS	Imoloy .0001 inch (2.5 µm) min. plating, consisting of 55% Copper / 20% Zinc / 25% Tin (on special request).
Design		The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Frequency Range		DC - 40.0 GHz min.
Insulation Resistance		The insulation resistance shall not be less than 5.000 megaohms.
Voltage Standing Wave Ratio (VSWR)		1.5 : 1 max. to 40.0 GHz.
Contact Resistance		The center contact resistance drop is 6.0 milliohms max.
Dielectric Withstanding Voltage		The magnitude of the test voltage shall be 500 volts rms at sea level.
RF High Potential Withstanding Voltage		The RF high potential withstanding voltage is 325 volts rms at 5 MHz. Leakage is not applicable.
RF Leakage		RF Leakage is not applicable.
Insertion Loss		(.10 SQT(f(GHz))) dB
MECHANICAL		
Connector Durability		The connector is to be tested and its mating connector shall be subjected to 100 insertions min.. Withdrawal cycles /minute are not applicable. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements.
Cable Retention Force		20 pounds (88.9 N) min.
Coupling Nut Retention Force		Not applicable.
Force to Engage and Disengage Longitudinal Force max.		The torque required to engage shall not exceed 15 lbs. (66.7 N). The disengage torque shall not exceed 2 lbs. (8.9 N) min. (full detent).
Mating Characteristics		Not applicable.
Recommended Mating Torque		Recommended Mating Torque is not applicable.
ENVIRONMENTAL		
Corrosion (Salt Spray)		Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be 5%.
Vibration		Specification MIL-STD-202, Method 204, Test Condition D.
Shock		Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock		Specification MIL-STD-202, Method 107, Test Condition B, rating -65 °C to +165 °C.
Moisture Resistance		Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms min. within 5 minutes of removal from humidity.
Corona Level		The connector shall not exhibit breakdown (corona) when the applied voltage is 190 volts rms and the altitude is 70,000 feet.

Spectrum Elektrotechnik GmbH

SMP Female

Interface

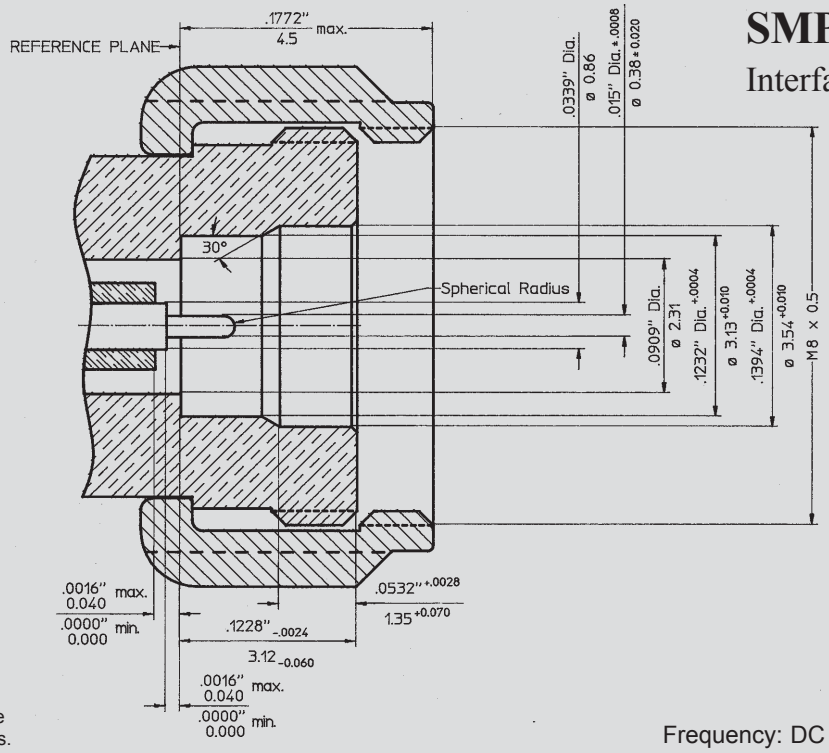


Dimensions shown are inches over millimeters.

Frequency: DC - 40.0 GHz min.

SMP Male

Interface Precision



Dimensions shown are inches over millimeters.

Frequency: DC - 40.0 GHz min.

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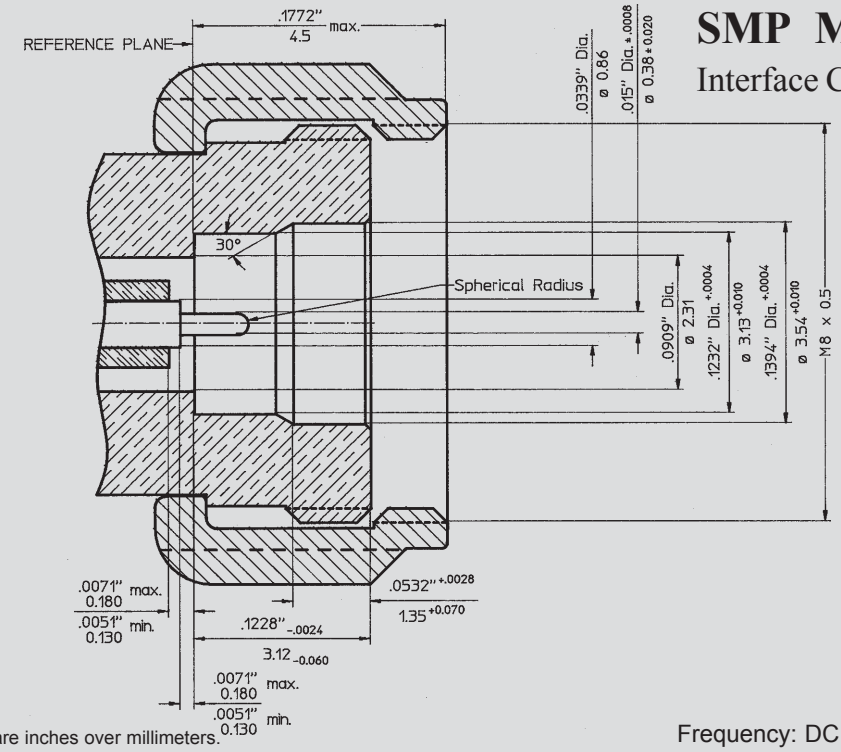
SMP Male

Interface Commercial



Dimensions shown are inches over millimeters.

Frequency: DC - 40.0 GHz min.

Spectrum Elektrotechnik GmbH has developed an SMP Calibration System that allows testing SMP connectors with guaranteed repeatability. To ensure proper mating, the SMP Test Connectors employ additional threading, ensuring perfect and repeatable mating, avoiding uncertainties that cannot be prevented with pure snap on connectors. The connectors will mate properly with standard SMP connectors.

To the left and above Spectrum Elektrotechnik GmbH has documented the interface mating dimensions of the test connectors. The commercial test connector, as specified above, was mainly needed during the time when the DESC Specification still allowed protruding center contacts and dielectrics.

SMP Test Connector Specifications

The specifications below are general specifications for all SMP Test Connectors. Specific Data for VSWR, Insertion loss, R.F. leakage etc., are available from the factory upon request. Specifications in the following table are recommended for any procurement documents or drawings. In the event of any conflict between these specifications and other documentation, these specifications shall govern. These specifications are subject to change according to the latest revision.

REQUIREMENT		GENERAL SPECIFICATIONS
GENERAL		
Standard Materials		STEEL corrosion resistant 1.4305 per DIN 17440 (QQ-S-764, class 303 or ASTM-A-582-80). ALUMINUM AlMg4.5Mn per DIN 1725, AlMgSi0.5 per DIN 1725, AlMgSi1 per DIN 1725 (6061-T6 per QQ-A-225/8). BRASS CuZn39Pb3 per DIN 17660 (QQ-B-626, half hard). COPPER BERYLLIUM 33-25 CuBe2Pb H per DIN 17666 (QQ-C-530). TFE Fluorocarbon per DIN 52900 (MIL-P-19468 and L-P403). SILICONE RUBBER per DIN 3771 (MIL-R-5847 and ZZ-R-765, Class II B,) Grade 50 - 75. BORRIUM NITRITE Dielectric for high power applications per inhouse specification.
Finish for	COPPER BERYLLIUM	Center Contacts shall be gold plated to a minimum thickness of .00005 inch (1.27 µm) in accordance with MIL-G-45204, Type II, Grade C. Outer conductors shall be gold plated to a thickness of .00003 inch (0.8 µm) per MIL-G-45204 , Type II, Grade C, or silver plated to a thickness of .0001 inch (2.5 µm) per QQ-S-365.
	STAINLESS STEEL	Shall be passivated per QQ-P-35 or gold plated to a thickness of .00003 inch (0.8 µm) per MIL-G-45204, Type II, Grade C.
	ALUMINUM	Conductive Parts shall have an iridited finish per MIL-C-5541. Other parts, such as Coupling Nuts and Back-Bodies shall be anodized per MIL-A-8625.
	BRASS	Gold plated to a thickness of .00003 inch (0.8 µm) min. per MIL-45204, Type II, Grade C, or nicle plated to a thickness of .0002 inch (5µm) per QQ-N-290, grade E, or silver plated to a thickness of .0001 inch (2.5 µm) per QQ-S-365.
	VARIOUS	Imoloy .0001 inch (2.5 µm) min. plating, consisting of 55% Copper / 20% Zinc / 25% Tin (on special request).
Design		The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Frequency Range		DC - 18.0 GHz min. & DC - 40.0 GHz min.
Insulation Resistance		The insulation resistance shall not be less than 5.000 megaohms.
Voltage Standing Wave Ratio (VSWR)		1.02 + .005 x f(GHz)
Contact Resistance		The center contact resistance drop is 6.0 milliohms max.
Dielectric Withstanding Voltage		The magnitude of the test voltage shall be 500 volts rms at sea level.
RF High Potential Withstanding Voltage		The RF high potential withstanding voltage is 325 volts rms at 5 MHz. Leakage is not applicable.
RF Leakage		RF Leakage is not applicable.
Insertion Loss		(.05 SQT(f(GHz))) dB
MECHANICAL		
Connector Durability		The connector is to be tested and its mating connector shall be subjected to 100 insertions min.. Withdrawal cycles /minute are not applicable. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements.
Cable Retention Force		20 pounds (88.9 N) min.
Coupling Nut Retention Force		Not applicable.
Force to Engage and Disengage Longitudinal Force max.		The torque required to engage shall not exceed 15 lbs. (66.7 N). The disengage torque shall not exceed 2 lbs. (8.9 N) min. (full detent).
Mating Characteristics		Not applicable.
Recommended Mating Torque		6.2 inch-pounds (0.7 Nm)
ENVIRONMENTAL		
Corrosion (Salt Spray)		Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be 5%.
Vibration		Specification MIL-STD-202, Method 204, Test Condition D.
Shock		Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock		Specification MIL-STD-202, Method 107, Test Condition B, rating -65 °C to +165 °C.
Moisture Resistance		Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms min. within 5 minutes of removal from humidity.
Corona Level		The connector shall not exhibit breakdown (corona) when the applied voltage is 190 volts rms and the altitude is 70,000 feet.

SMP

SMP Semi-Rigid Cable Connectors

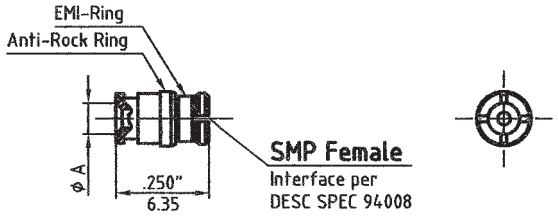
Spectrum Elektrotechnik GmbH

DC - 18.0 GHz

SMP female straight for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-2101-04	**.047"**	421-047 421-047-1 421-047-3	.049" 1.24	SPF
1102-2102-04	**.047" LL**	421-047L 421-047L-1 421-047L-3	.049" 1.24	
1103-2102-04	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	
1103-2103-04	**.085" LL**	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

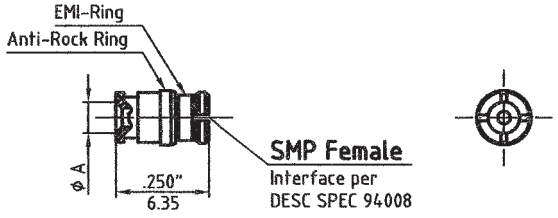


DC - 26.5 GHz

SMP female straight for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-2106-04	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	SPE
1103-2107-04	**.085" LL**	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

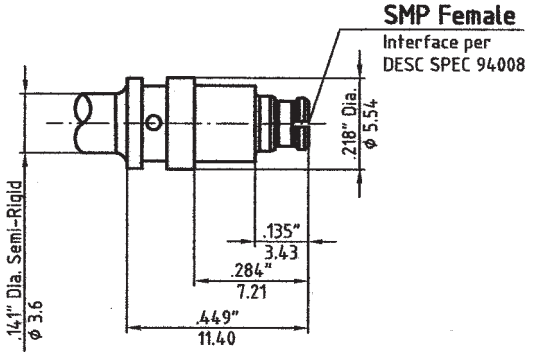


DC - 18.0 GHz

SMP connector assembly female for S/R Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-2108-04	**.141"**	421-669	.049" 1.24	SPF

Connector outer conductor and center contact are beryllium copper gold plated.

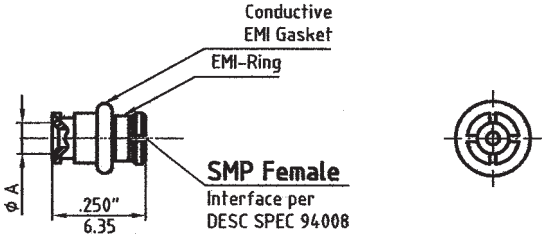


DC - 40.0 GHz

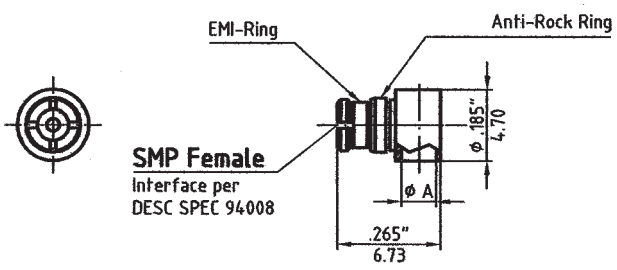
SMP female straight for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-2103-04	**.047"**	421-047 421-047-1 421-047-3	.049" 1.24	SPG
1102-2104-04	**.047" LL**	421-047L 421-047L-1 421-047L-3	.049" 1.24	
1103-2104-04	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	
1103-2105-04	**.085" LL**	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

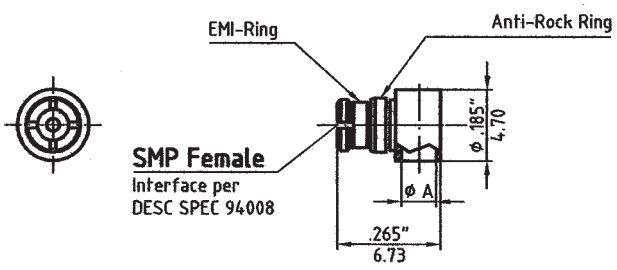


DC - 12.0 GHz

SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3401-04	**.047"**	421-047 421-047-1 421-047-3	.049" 1.24	SPQ
1102-3402-04	**.047" LL**	421-047L 421-047L-1 421-047L-3	.049" 1.24	
1103-3401-04	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	
1103-3402-04	**.085" LL**	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

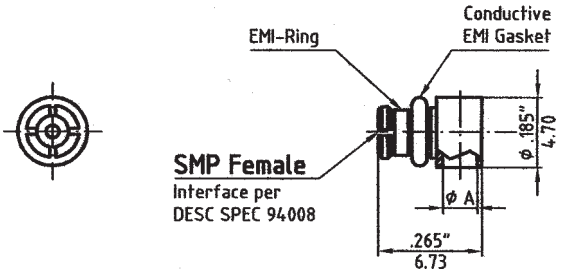


DC - 18.0 GHz

SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-3417-04	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	SPQ
1103-3418-04	**.085" LL**	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.



DC - 12.0 GHz

SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3403-04	**.047"**	421-047 421-047-1 421-047-3	.049" 1.24	SPD
1102-3404-04	**.047" LL**	421-047L 421-047L-1 421-047L-3	.049" 1.24	
1103-3403-04	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	
1103-3404-04	**.085" LL**	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

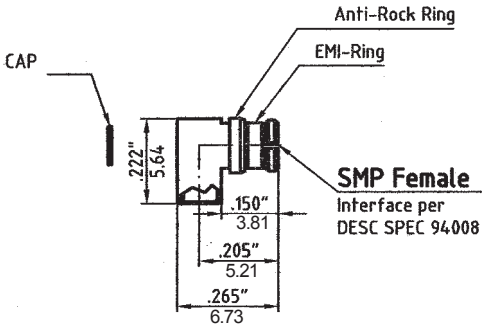
SMP Semi-Rigid Cable Connectors

DC - 18.0 GHz

SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-3419-04	.085"	421-086 421-086-1 421-086-3	.088" 2.24	SPH

Connector outer conductor and center contact are beryllium copper gold plated.

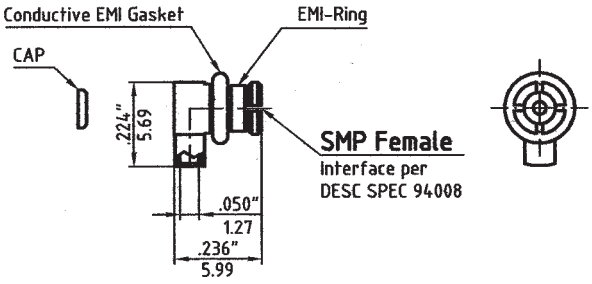


DC - 18.0 GHz

SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3417-04	.047"	421-047 421-047-1 421-047-3	.049" 1.24	SPH

Connector outer conductor and center contact are beryllium copper gold plated.

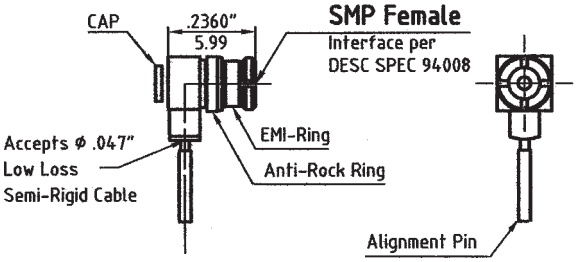


DC - 18.0 GHz

SMP female right angle to .047" LL (1.19mm) for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3418-04	.047" LL	421-047L 421-047L-1 421-047L-3	.049" 1.24	SPJ

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

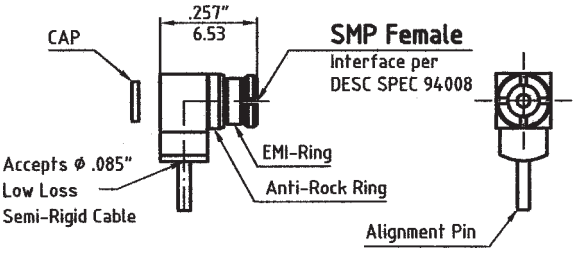


DC - 18.0 GHz

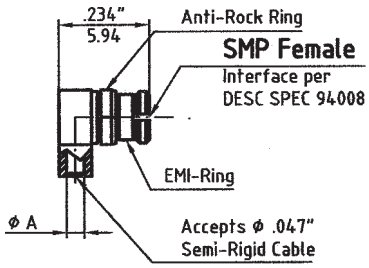
SMP female right angle to .085" LL (2.16mm) for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-3420-04	.085" LL	421-307 421-307-1 421-307-3	.088" 2.24	SPJ

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

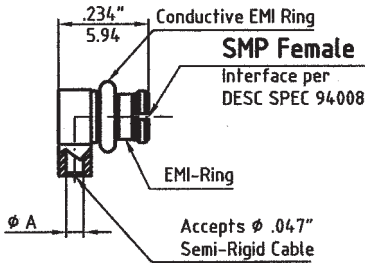


DC - 18.0 GHz

SMP female right angle connector for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3413-04	.047"	421-047 421-047-1 421-047-3	.049" 1.24	SPQ
1102-3414-04	.047" LL	421-047L 421-047L-1 421-047L-3	.049" 1.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

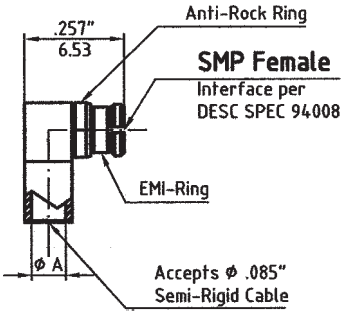


DC - 18.0 GHz

SMP female right angle connector for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3415-04	.047"	421-047 421-047-1 421-047-3	.049" 1.24	SPD
1102-3416-04	.047" LL	421-047L 421-047L-1 421-047L-3	.049" 1.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

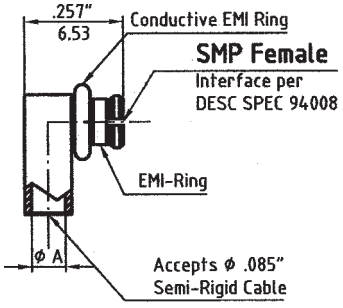


DC - 18.0 GHz

SMP female right angle connector for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-3413-04	.085"	421-086 421-086-1 421-086-3	.088" 2.24	SPQ
1103-3414-04	.085" LL	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.



DC - 18.0 GHz

SMP female right angle connector for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-3415-04	.085"	421-086 421-086-1 421-086-3	.088" 2.24	SPD
1103-3416-04	.085" LL	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

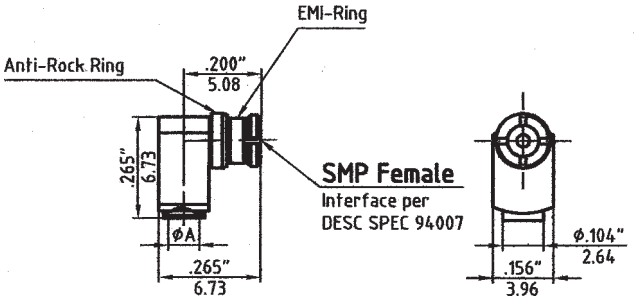
Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

DC - 18.0 GHz

SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3405-04	.047"	421-047 421-047-1 421-047-3	.049" 1.24	SPA
1102-3406-04	.047" LL	421-047L 421-047L-1 421-047L-3	.049" 1.24	
1103-3405-04	.085"	421-086 421-086-1 421-086-3	.088" 2.24	
1103-3406-04	.085" LL	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

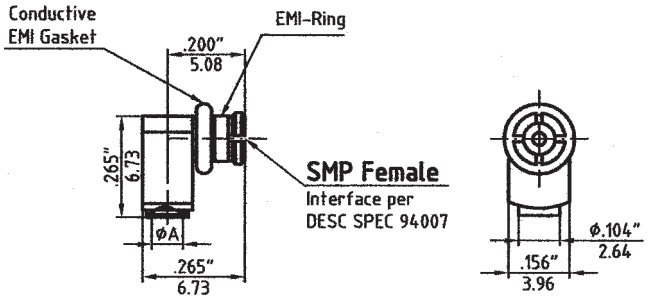


DC - 18.0 GHz

SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3407-04	.047"	421-047 421-047-1 421-047-3	.049" 1.24	SPB
1102-3408-04	.047" LL	421-047L 421-047L-1 421-047L-3	.049" 1.24	
1103-3407-04	.085"	421-086 421-086-1 421-086-3	.088" 2.24	
1103-3408-04	.085" LL	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

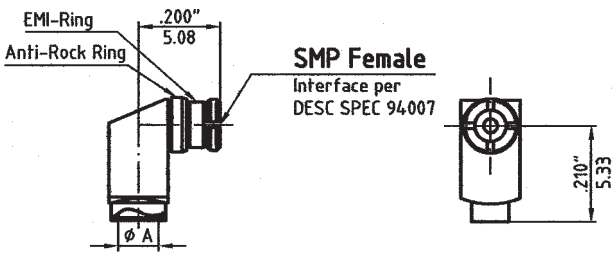


DC - 26.5 GHz

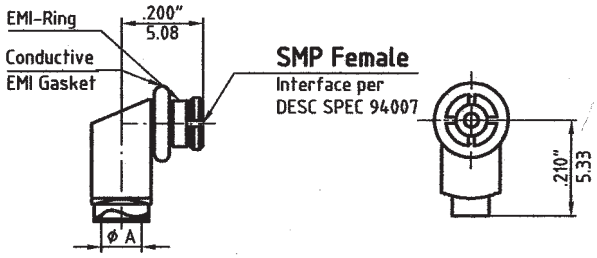
SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3409-04	.047"	421-047 421-047-1 421-047-3	.049" 1.24	SPR
1102-3410-04	.047" LL	421-047L 421-047L-1 421-047L-3	.049" 1.24	
1103-3409-04	.085"	421-086 421-086-1 421-086-3	.088" 2.24	
1103-3410-04	.085" LL	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

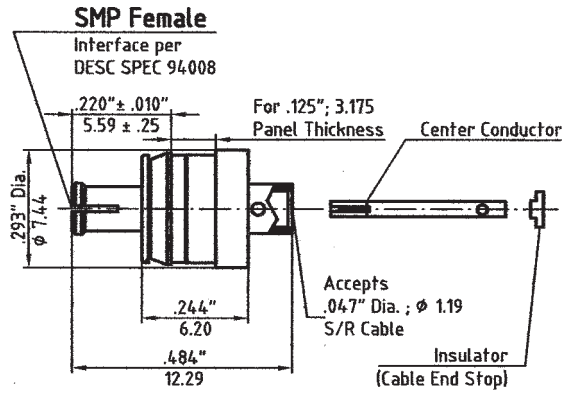


DC - 26.5 GHz

SMP female right angle for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-3411-04	**.047"**	421-047 421-047-1 421-047-3	.049" 1.24	SPC
1102-3412-04	**.047" LL**	421-047L 421-047L-1 421-047L-3	.049" 1.24	
1103-3411-04	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	
1103-3412-04	**.085" LL**	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.

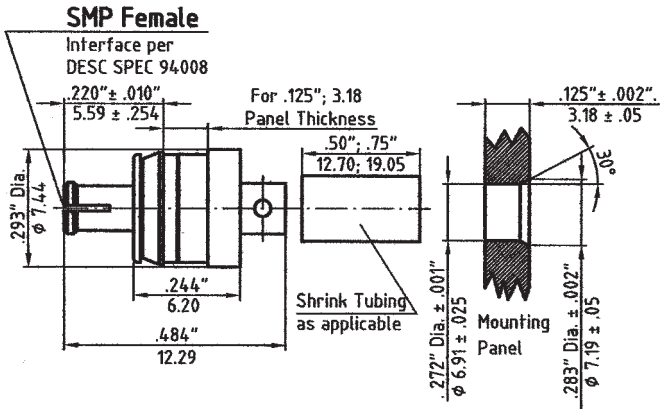


DC - 18.0 GHz

SMP female float mount for .047" (1.19mm) Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-6505-04	**.047"**	421-047 421-047-1 421-047-3	.049" 1.24	SPN

Connector outer conductor and center contact are beryllium copper gold plated. LL= Low density dielectric.



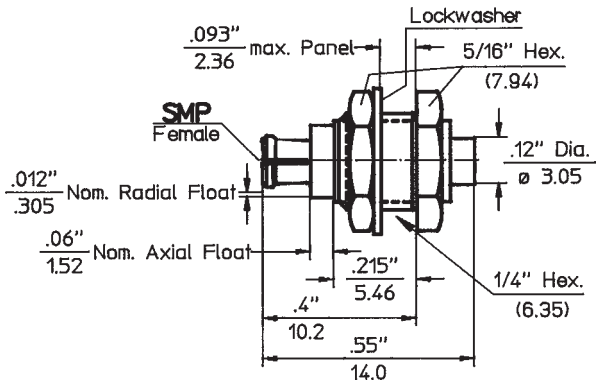
DC - 18.0 GHz

SMP female Float Mount .125" (3.18mm) Panel for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Conn. Code
1102-6501-04	**.047"**	421-047 421-047-1 421-047-3	SPT
1102-6502-04	**.047" LL**	421-047L 421-047L-1 421-047L-3	
1103-6501-04	**.085"**	421-086 421-086-1 421-086-3	
1103-6502-04	**.085" LL**	421-307 421-307-1 421-307-3	

Connector outer conductor is stainless steel gold plated. Center conductor is berryllium copper gold plated. LL= Low density dielectric.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.



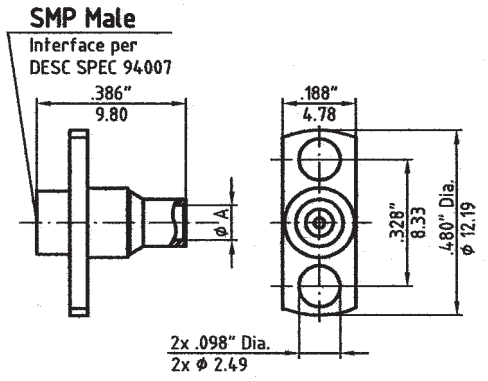
DC - 18.0 GHz

SMP female bulkhead float mount for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-6503-02	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	SPU

Connector outer conductor and center contact are beryllium copper gold plated.

Connector Part No.	S/R Cable	Cable Part No.	Inter-face	Ø A min.	Conn. Code
11F2-6301-00	**.047"**	421-047 421-047-1 421-047-3	Full detent	.049" 1.24	SRF
11L2-6301-00	**.047"**	421-047 421-047-1 421-047-3	Limited detent	.049" 1.24	SRL
11S2-6301-00	**.047"**	421-047 421-047-1 421-047-3	Smooth bore	.049" 1.24	SRS
11F2-6302-00	**.047" LL**	421-047L 421-047L-1 421-047L-3	Full detent	.049" 1.24	SRF
11L2-6302-00	**.047" LL**	421-047L 421-047L-1 421-047L-3	Limited detent	.049" 1.24	SRL
11S2-6302-00	**.047" LL**	421-047L 421-047L-1 421-047L-3	Smooth bore	.049" 1.24	SRS
11F3-6301-00	**.085"**	421-086 421-086-1 421-086-3	Full detent	.088" 2.24	SRF
11L3-6301-00	**.085"**	421-086 421-086-1 421-086-3	Limited detent	.088" 2.24	SRL
11S3-6301-00	**.085"**	421-086 421-086-1 421-086-3	Smooth bore	.088" 2.24	SRS
11F3-6302-00	**.085" LL**	421-307 421-307-1 421-307-3	Full detent	.088" 2.24	SRF
11L3-6302-00	**.085" LL**	421-307 421-307-1 421-307-3	Limited detent	.088" 2.24	SRL
11S3-6302-00	**.085" LL**	421-307 421-307-1 421-307-3	Smooth bore	.088" 2.24	SRS

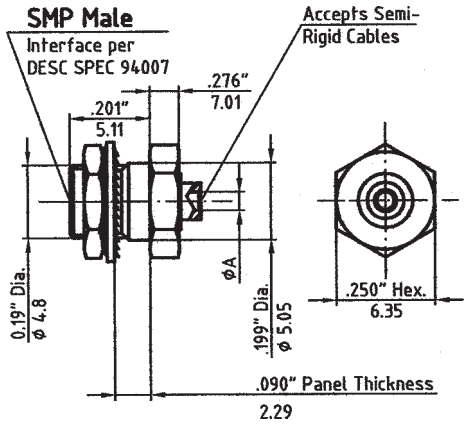


DC - 18.0 GHz

SMP male straight for Semi-Rigid Cable

Connector outer conductor is stainless steel gold plated. Center conductor is berryllium copper gold plated. LL= Low density dielectric.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

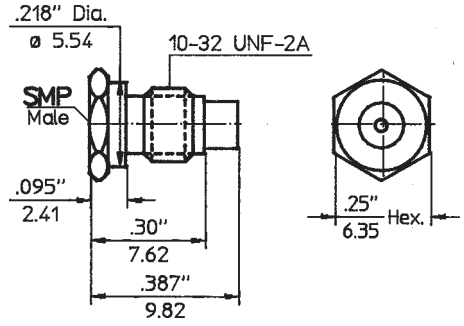


DC - 18.0 GHz

SMP male Bulkhead for Semi-Rigid Cable

Connector outer conductor is stainless steel gold plated. Center conductor is berryllium copper gold plated. LL= Low density dielectric.

Connector Part No.	S/R Cable	Cable Part No.	Inter-face	Ø A min.	Conn. Code
11F2-6401-00	**.047"**	421-047 421-047-1 421-047-3	Full detent	.049" 1.24	STF
11L2-6401-00	**.047"**	421-047 421-047-1 421-047-3	Limited detent	.049" 1.24	STL
11S2-6401-00	**.047"**	421-047 421-047-1 421-047-3	Smooth bore	.049" 1.24	STS
11F2-6402-00	**.047" LL**	421-047L 421-047L-1 421-047L-3	Full detent	.049" 1.24	STF
11L2-6402-00	**.047" LL**	421-047L 421-047L-1 421-047L-3	Limited detent	.049" 1.24	STL
11S2-6402-00	**.047" LL**	421-047L 421-047L-1 421-047L-3	Smooth bore	.049" 1.24	STS
11F3-6401-00	**.085"**	421-086 421-086-1 421-086-3	Full detent	.088" 2.24	STF
11L3-6401-00	**.085"**	421-086 421-086-1 421-086-3	Limited detent	.088" 2.24	STL
11S3-6401-00	**.085"**	421-086 421-086-1 421-086-3	Smooth bore	.088" 2.24	STS
11F3-6402-00	**.085" LL**	421-307 421-307-1 421-307-3	Full detent	.088" 2.24	STF
11L3-6402-00	**.085" LL**	421-307 421-307-1 421-307-3	Limited detent	.088" 2.24	STL
11S3-6402-00	**.085" LL**	421-307 421-307-1 421-307-3	Smooth bore	.088" 2.24	STS



smooth bore

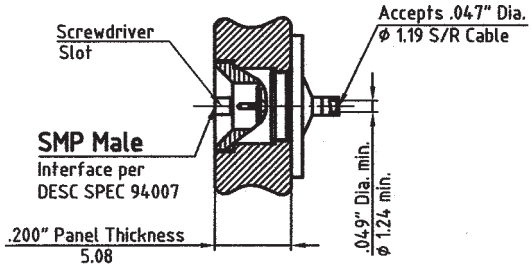
DC - 18.0 GHz

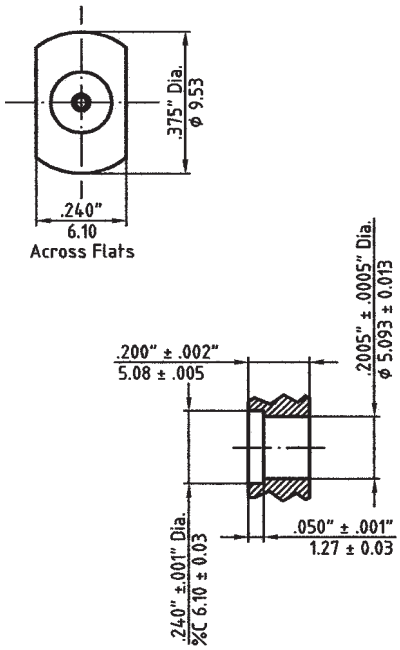
SMP male Bulkhead for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
11S3-6407-00	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	SPW
11S3-6408-00	**.085" LL**	421-307 421-307-1 421-307-3	.088" 2.24	

Connector outer conductor is stainless steel gold plated. Center conductor is berryllium copper gold plated. LL= Low density dielectric.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.





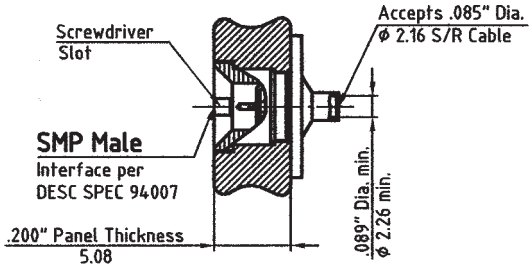
smooth bore

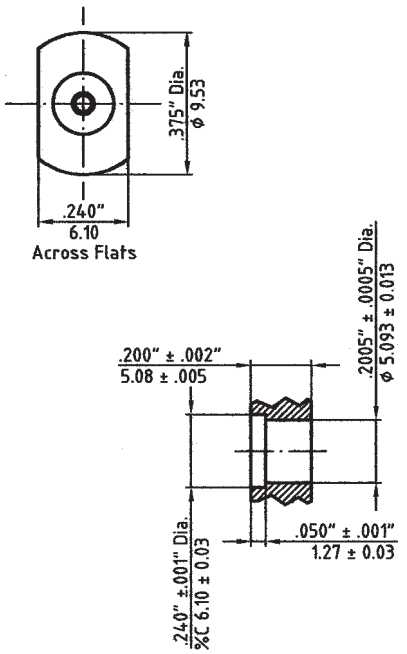
DC - 18.0 GHz

SMP male panel mount for .047" (1.19mm) for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1102-6601-00	**.047"**	421-047 421-047-1 421-047-3	.049" 1.24	SPS

Connector outer conductor is stainless steel gold plated.
Center conductor is beryllium copper gold plated.





smooth bore

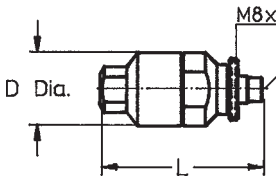
DC - 18.0 GHz

SMP male panel mount for .085" (2.16mm) for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø A min.	Conn. Code
1103-6601-00	**.085"**	421-086 421-086-1 421-086-3	.088" 2.24	SPS

Connector outer conductor is stainless steel gold plated.
Center conductor is beryllium copper gold plated.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.



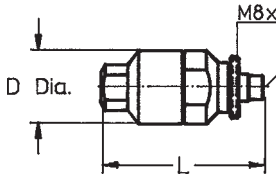
Test Connector to connect with SMP-m smooth bore

DC - 18.0 GHz

SMP female Test Connector for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø D	L	Conn. Code
11S3-21J1-02	.085"	421-086 421-086-1 421-086-3	.433" 11.0	.846" 21.5	TJ
11S3-21J2-02	.085" LL	421-307 421-307-1 421-307-3	.433" 11.0	.846" 21.5	

Connector outer conductor is passivated stainless steel. Center conductor is beryllium copper gold plated. LL= Low density dielectric.



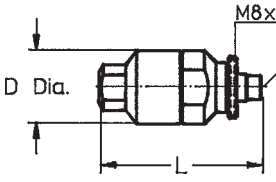
Test Connector to connect with SMP-m limited detent

DC - 18.0 GHz

SMP female Test Connector - limited detent for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø D	L	Conn. Code
11L3-21J1-02	.085"	421-086 421-086-1 421-086-3	.433" 11.0	.846" 21.5	TJL
11L3-21J2-02	.085" LL	421-307 421-307-1 421-307-3	.433" 11.0	.846" 21.5	

Connector outer conductor is passivated stainless steel. Center conductor is beryllium copper gold plated. LL= Low density dielectric.



Test Connector to connect with SMP-m full detent

DC - 18.0 GHz

SMP female Test Connector - full detent for Semi-Rgid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø D	L	Conn. Code
11F3-21J1-02	.085"	421-086 421-086-1 421-086-3	.433" 11.0	.846" 21.5	TJF
11F3-21J2-02	.085" LL	421-307 421-307-1 421-307-3	.433" 11.0	.846" 21.5	

Connector outer conductor is passivated stainless steel. Center conductor is beryllium copper gold plated. LL= Low density dielectric.

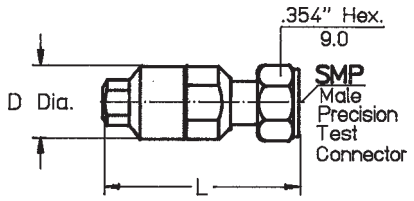
Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by Spectrum Elektrotechnik GmbH. For details please refer to the beginning of this section.

DC - 18.0 GHz

SMP male Precision Test Connector for Semi-Rigid Cable

Connector Part No.	S/R Cable	Cable Part No.	Ø D	L	Conn. Code
11S3-21P1-02	.085"	421-086 421-086-1 421-086-3	.433" 11.0	1.021" 25.9	TP
11S3-21P2-02	.085" LL	421-307 421-307-1 421-307-3	.433" 11.0	1.021" 25.9	

Connector outer conductor is passivated stainless steel. Center conductor is beryllium copper gold plated. LL= Low density dielectric.

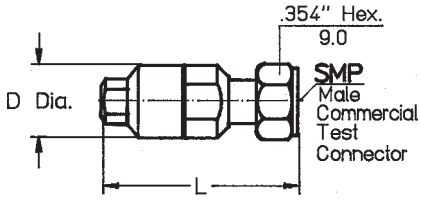


DC - 18.0 GHz

SMP male Commercial Test Connector for Semi-Rigid Cable

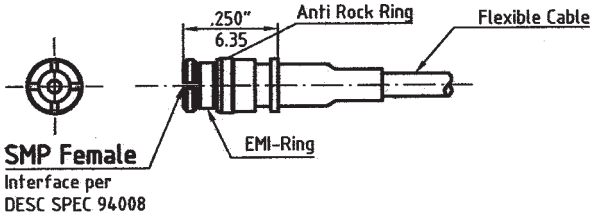
Connector Part No.	S/R Cable	Cable Part No.	Ø D	L	Conn. Code
11S3-21C1-02	.085"	421-086 421-086-1 421-086-3	.433" 11.0	1.021" 25.9	TPC
11S3-21C2-02	.085" LL	421-307 421-307-1 421-307-3	.433" 11.0	1.021" 25.9	

Connector outer conductor is passivated stainless steel. Center conductor is beryllium copper gold plated. LL= Low density dielectric.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by Spectrum Elektrotechnik GmbH. For details please refer to the beginning of this section.

Flexible Cable Connectors, Type SMP

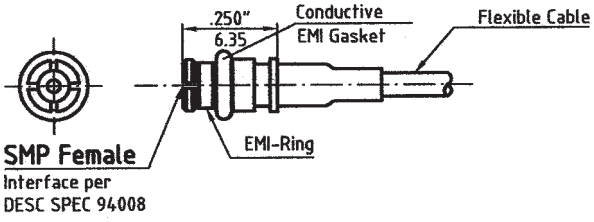


DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female straight to Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-2101-04	**RG-178B/U**	78	SPF
1113-2103-04	**RD-178B/U**	78D	
1113-2102-04	**RG-316/U**	31	
1113-2104-04	**RD-316/U**	32	

Connector outer conductor and center contact are beryllium copper gold plated.

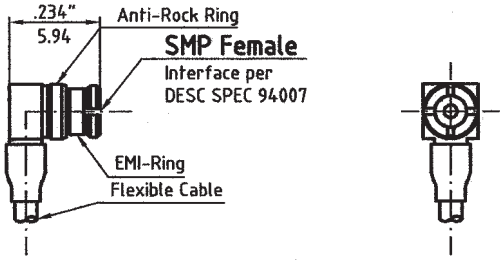


DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female straight for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-2105-04	**RG-178B/U**	78	SPG
1113-2107-04	**RD-178B/U**	78D	
1113-2106-04	**RG-316/U**	31	
1113-2108-04	**RD-316/U**	32	

Connector outer conductor and center contact are beryllium copper gold plated.



DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female right angle connector for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-3409-04	**RG-178B/U**	78	SPQ
1113-3410-04	**RD-178B/U**	78D	

Connector outer conductor and center contact are beryllium copper gold plated.

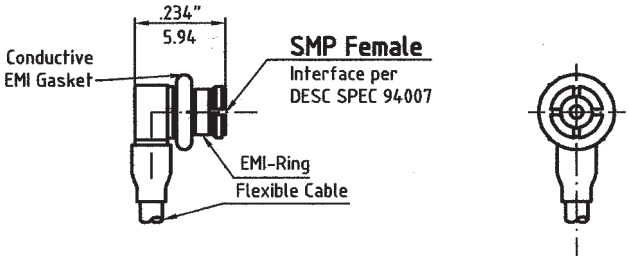
Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female right angle connector for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-3413-04	RG-178B/U	78	SPD
1113-3414-04	RD-178B/U	78D	

Connector outer conductor and center contact are beryllium copper gold plated.

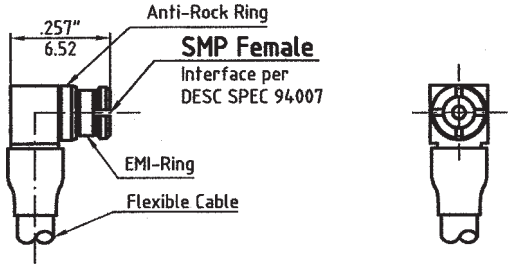


DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female right angle connector for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-3411-04	RG-316/U	31	SPQ
1113-3412-04	RD-316/U	32	

Connector outer conductor and center contact are beryllium copper gold plated.

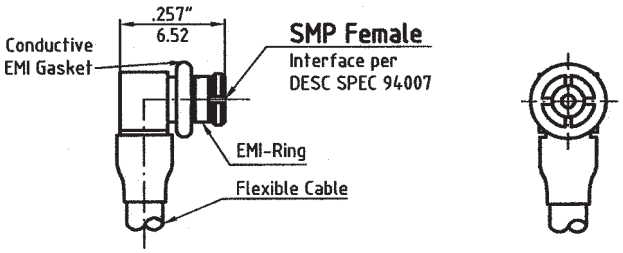


DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

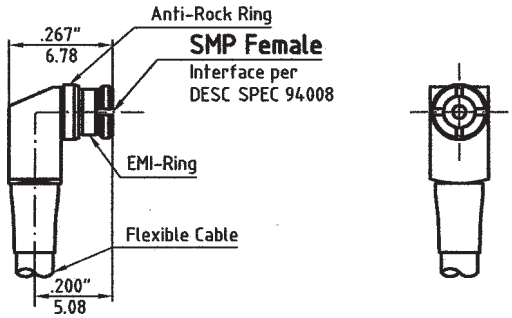
SMP female right angle connector for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-3415-04	RG-316/U	31	SPD
1113-3416-04	RD-316/U	32	

Connector outer conductor and center contact are beryllium copper gold plated.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

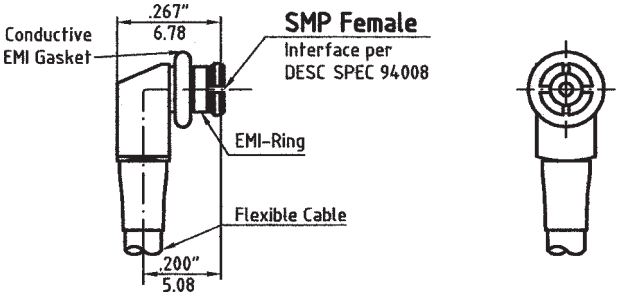


DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female right angle connector for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-3401-04	**RG-178B/U**	78	SPR
1113-3403-04	**RD-178B/U**	78D	
1113-3402-04	**RG-316/U**	31	
1113-3404-04	**RD-316/U**	32	

Connector outer conductor and center contact are beryllium copper gold plated.

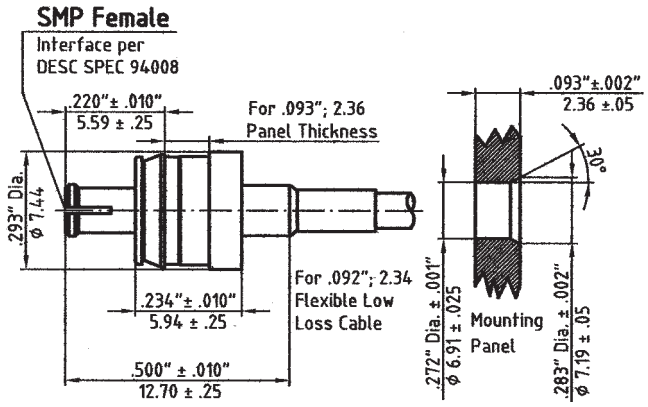


DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female right angle connector for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-3405-04	**RG-178B/U**	78	SPC
1113-3407-04	**RD-178B/U**	78D	
1113-3406-04	**RG-316/U**	31	
1113-3408-04	**RD-316/U**	32	

Connector outer conductor and center contact are beryllium copper gold plated.



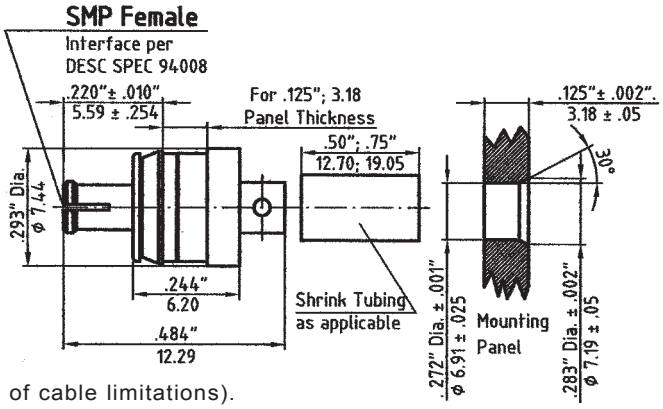
DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female Float Mount .092" (2.3mm) Panel for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-6502-04	**RG-316/U**	31	SPP

Connector outer conductor and center contact are beryllium copper gold plated.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.



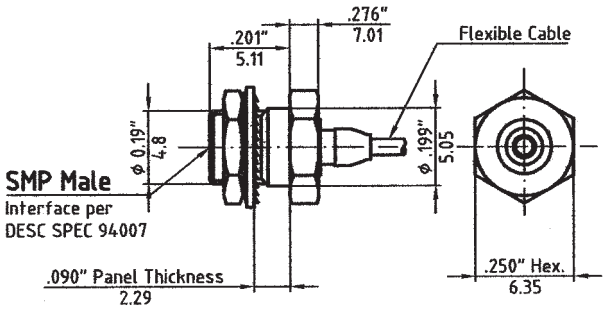
DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP female Float Mount .125" (3.18mm) Panel for Flexible Cable

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-6501-04	RG-316/U	31	SPT

Connector outer conductor and center contact are beryllium copper gold plated.

Connector Part No.	Cable Part No.	Cable Code	Inter-face	Conn. Code
11F3-6405-00	RG-178B/U	78	Full detent	STF
11L3-6405-00	RG-178B/U	78	Limited detent	STL
11S3-6405-00	RG-178B/U	78	Smooth bore	STS
11F3-6406-00	RD-178B/U	78D	Full detent	STF
11L3-6406-00	RD-178B/U	78D	Limited detent	STL
11S3-6406-00	RD-178B/U	78D	Smooth bore	STS
11F3-6403-00	RG-316/U	31	Full detent	STF
11L3-6403-00	RG-316/U	31	Limited detent	STL
11S3-6403-00	RG-316/U	31	Smooth bore	STS
11F3-6404-00	RD-316/U	32	Full detent	STF
11L3-6404-00	RD-316/U	32	Limited detent	STL
11S3-6404-00	RD-316/U	32	Smooth bore	STS

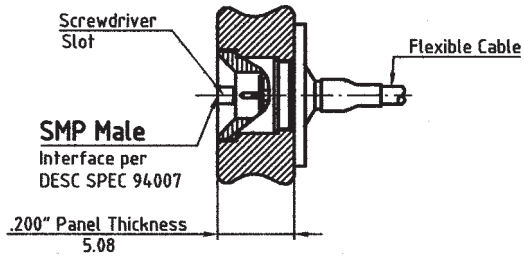


DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP male bulkhead for Flexible Cable

Connector outer conductor is stainless steel gold plated. Center conductor is beryllium copper gold plated.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.



smooth bore
DC - 3.0 GHz (because of cable limitations). Flexible high performance cable assemblies to higher frequencies available on request.

SMP male panel mount for Flexible Cables

Connector Part No.	Cable Part No.	Cable Code	Conn. Code
1113-6601-00	**RG-178B/U**	78	SPS
1113-6602-00	**RD-178B/U**	78D	
1113-6603-00	**RG-316/U**	31	
1113-6604-00	**RD-316/U**	32	

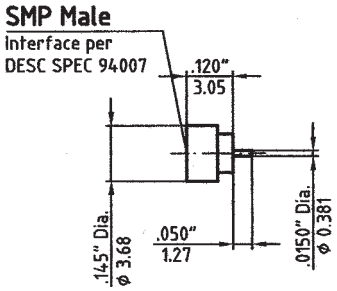
Connector outer conductor and center contact are beryllium copper gold plated.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

SMP male hermetic DC - 18.0 GHz

Connector Part No.	Interface
11F9-5401-40	full detent
11L9-5401-40	limited detent
11S9-5401-40	smooth bore

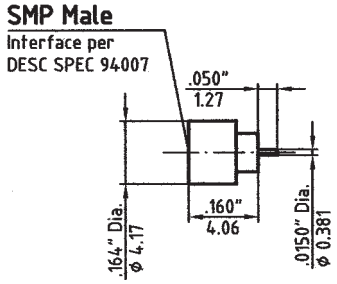
Connector outer conductor is kovar gold plated.
Center conductor is gold plated.



SMP male hermetic DC - 18.0 GHz

Connector Part No.	Interface
11F9-5402-40	full detent
11L9-5402-40	limited detent
11S9-5402-40	smooth bore

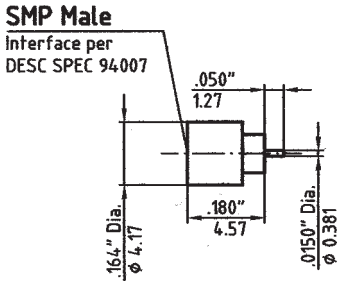
Connector outer conductor is kovar gold plated.
Center conductor is gold plated.



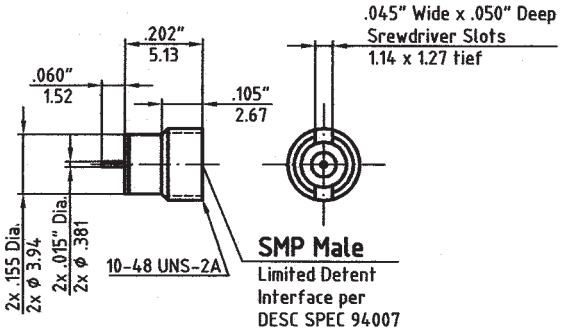
SMP male hermetic DC - 18.0 GHz

Connector Part No.	Interface
11F9-5403-40	full detent
11L9-5403-40	limited detent
11S9-5403-40	smooth bore

Connector outer conductor is kovar gold plated.
Center conductor is gold plated.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

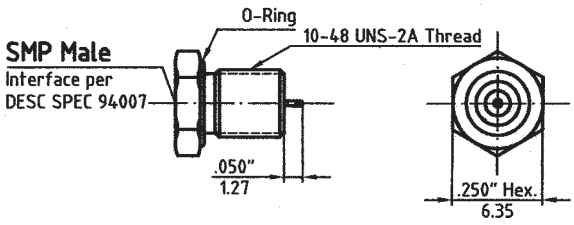


DC - 18.0 GHz

SMP male (hermetic) thread-in style to straight termination

Connector Part No.	Interface
11L9-5404-40	limited detent

Connector outer conductor is kovar gold plataed.
Center conductor is gold plated.



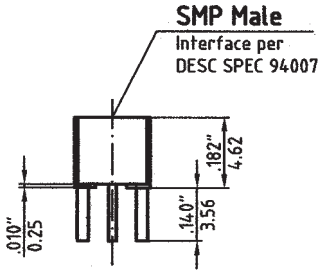
DC - 18.0 GHz

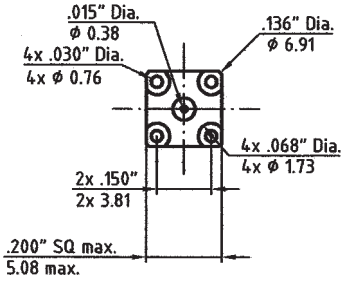
SMP male hermetic THD in W/O-Ring

Connector Part No.	Interface
11F9-5405-40	full detent
11L9-5405-40	limited detent
11S9-5405-40	smooth bore

Connector outer conductor is kovar gold plated.
Center conductor is gold plated.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.



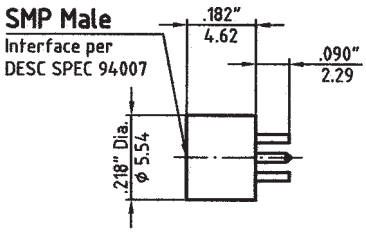


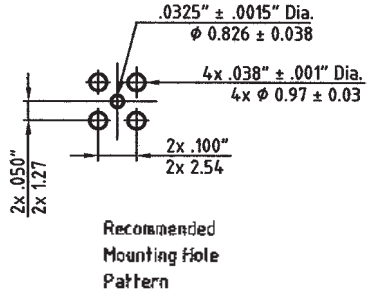
DC - 18.0 GHz

SMP male printed Circuit Board

Connector Part No.	Interface
11F9-5203-02	full detent
11L9-5203-02	limited detent
11S9-5203-02	smooth detent

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



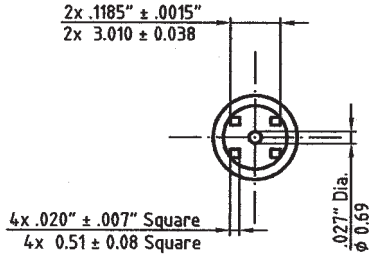


DC - 18.0 GHz

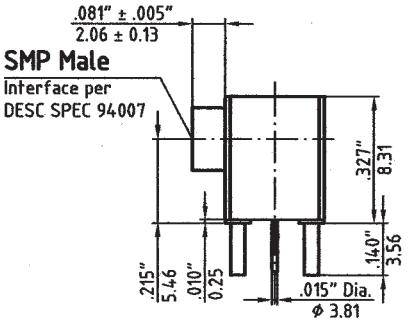
SMP male straight to P.C. Board Connector

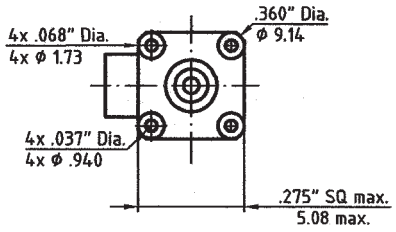
Connector Part No.	Interface
11F9-5204-02	limited detent
11L9-5204-02	full detent
11S9-5204-02	smooth bore

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.



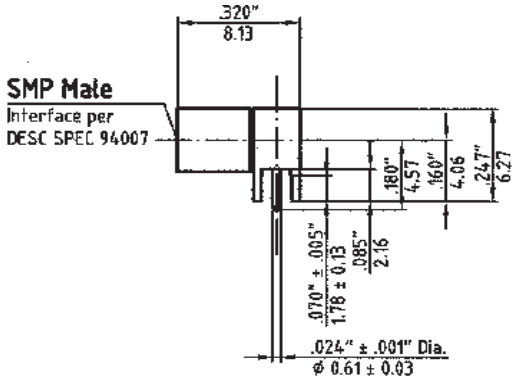


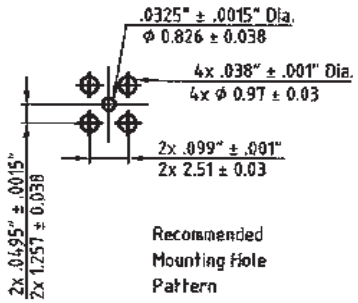
DC - 18.0 GHz

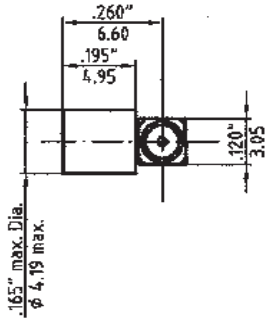
SMP male right angle printed Circuit Board Connector

Connector Part No.	Interface
11F9-5202-02	full detent
11L9-5202-02	limited detent
11S9-5202-02	smooth bore

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.







DC - 18.0 GHz

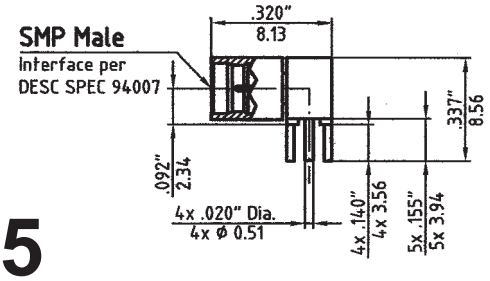
SMP male right angle to P.C. Board

Connector Part No.	Interface
11F9-5201-02	full detent
11L9-5201-02	limited detent
11S9-5201-02	smooth bore

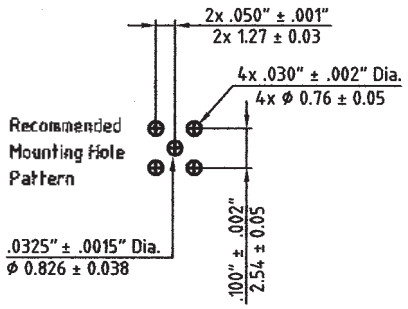
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.

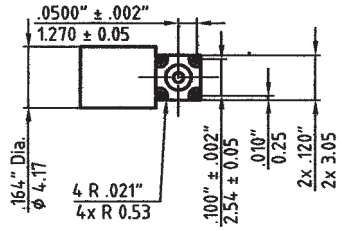
Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

Spectrum Elektrotechnik GmbH



5



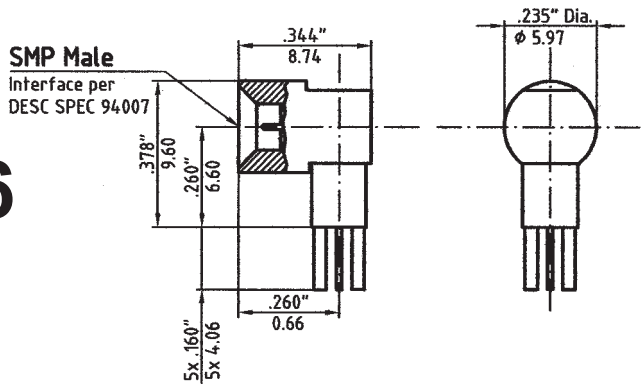


DC - 18.0 GHz

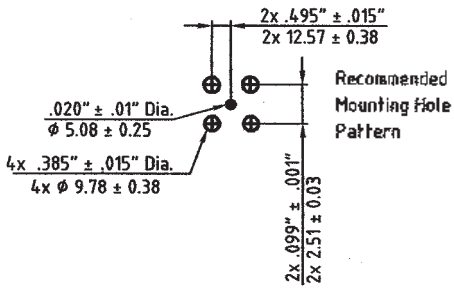
SMP male right angle P.C. Board

Connector Part No.	Interface
1199-5201-00	**full detent**

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



6

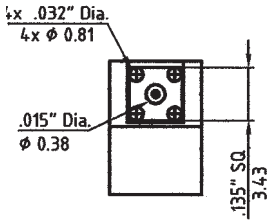


DC - 18.0 GHz

SMP male right angle PCB mount

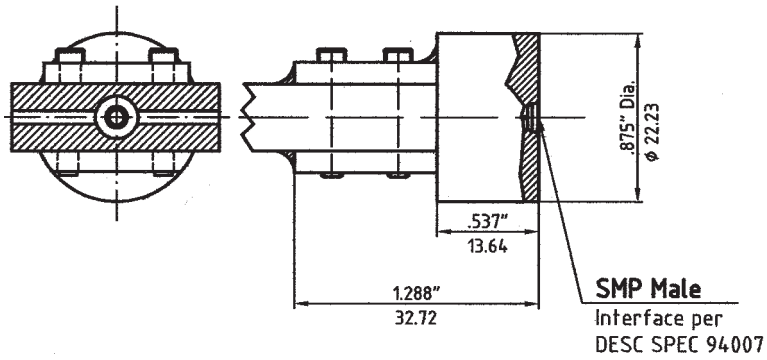
Connector Part No.	Interface
11S9-5205-00	**smooth bore**

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

c:\quick\98\smp2.pm6

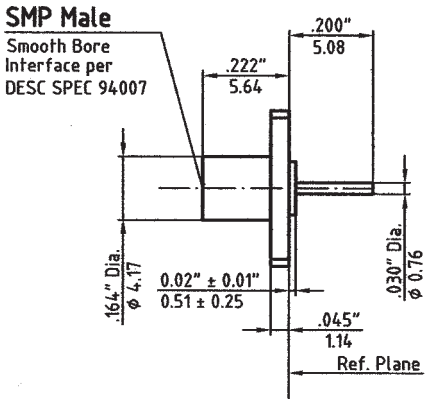


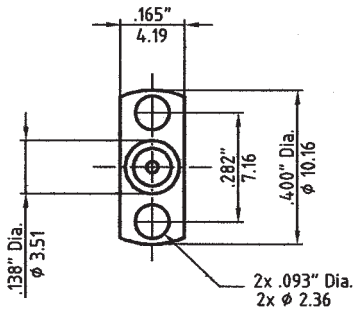
DC - 18.0 GHz

SMP male edge launched connector

Connector Part No.	Interface
11S9-5207-00	smooth bore

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.





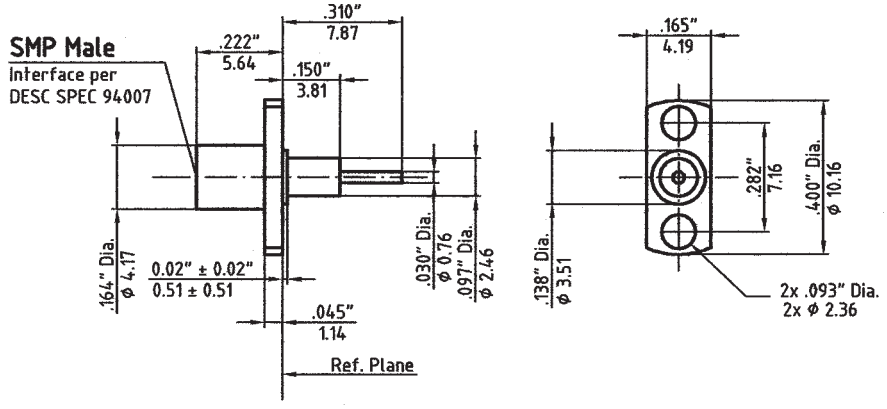
DC - 18.0 GHz

SMP male flange mount

Connector Part No.	Interface
11S9-6306-02	smooth bore

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

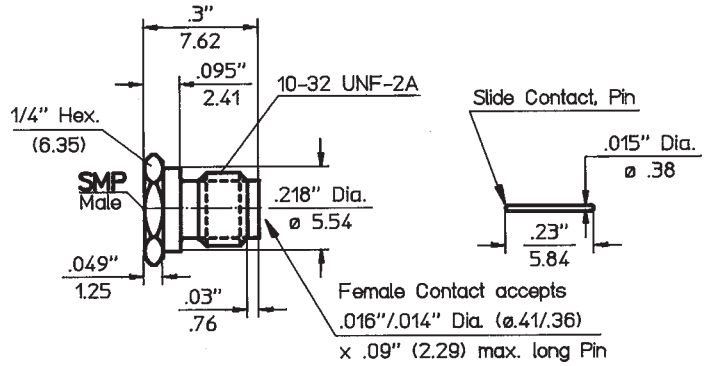


DC - 18.0 GHz

SMP male flange mount

Connector Part No.	Interface
11F9-6305-02	full detent
11L9-6305-02	limited detent
11S9-6305-02	smooth bore

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



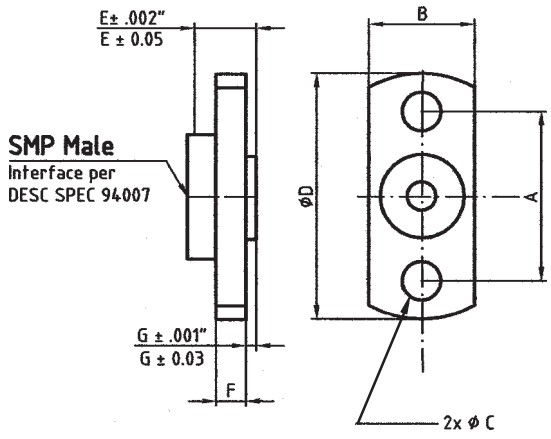
DC - 18.0 GHz

SMP male bulkhead

Connector Part No.	Interface
11S3-6411-00	smooth bore

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.

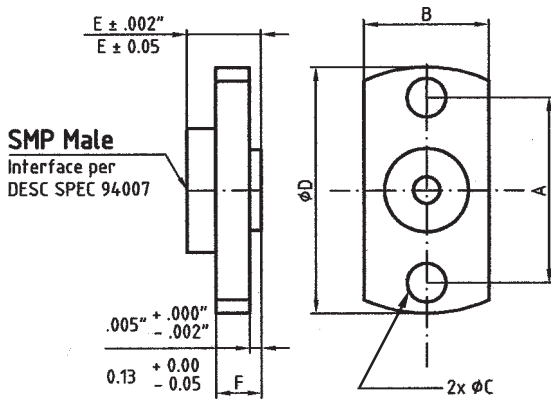
Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.



SMP male full detent shroud

Connector Part No.	A	B	ØC	ØD	E	F	G
11F9-6301-02	.328"	.187"	.098"	.480"	.120"	.045"	.004"
	8.33	4.75	2.49	12.19	3.05	1.14	.10
11F9-6302-02	.481"	.223"	.102"	.625"	.120"	.045"	.002"
	12.22	5.66	2.59	15.88	3.05	1.14	.05
11F9-6303-02	.282"	.165"	.073"	.400"	.120"	.045"	.002"
	7.16	4.19	1.85	10.16	3.05	1.14	.05
11F9-6304-02	.400"	.186"	.103"	.550"	.120"	.045"	.004"
	10.16	4.72	2.62	13.97	3.05	1.14	.10

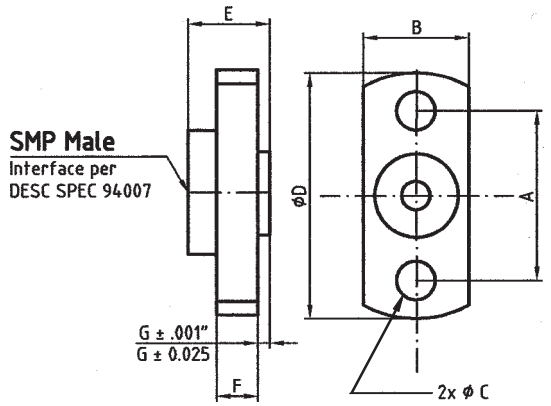
Connector outer conductor is passivated stainless steel.
Dimensions shown are inches over millimeters.



SMP male shroud non-detent

Connector Part No.	A	B	ØC	ØD	E	F
11N9-6301-02	.352"	.235"	.073"	.470"	.120"	.045"
	8.94	5.97	1.85	11.94	3.05	1.14
11N9-6302-02	.481"	.235"	.102"	.625"	.120"	.045"
	12.22	5.97	2.59	15.88	3.05	1.14
11N9-6303-02	.400"	.235"	.073"	.550"	.120"	.045"
	10.16	5.97	1.85	13.97	3.05	1.14

Connector outer conductor is passivated stainless steel.
Dimensions shown are inches over millimeters.



SMP male shroud limited detent

Connector Part No.	A	B	ØC	ØD	E	F	G
11L9-6301-02	.328"	.187"	.098"	.480"	.120"	.045"	.004"
	8.33	4.75	2.49	12.19	3.05	1.14	.10
11L9-6302-02	.481"	.223"	.102"	.625"	.120"	.045"	.002"
	12.22	5.66	2.59	15.88	3.05	1.14	.05
11L9-6303-02	.282"	.165"	.073"	.400"	.120"	.045"	.002"
	7.16	4.19	1.85	10.16	3.05	1.14	.05

Connector outer conductor is passivated stainless steel.
Dimensions shown are inches over millimeters.

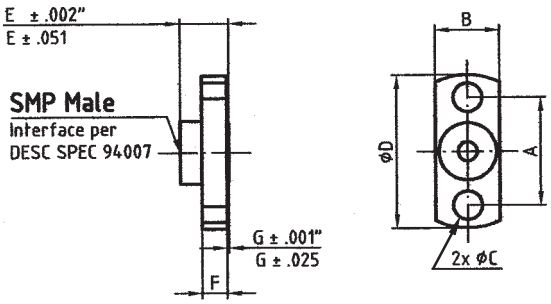
Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

Spectrum Elektrotechnik GmbH

SMP male shroud smooth bore

Connector Part No.	A	B	ØC	ØD	E	F	G
11S9-6301-02	.328"	.187"	.098"	.480"	.120"	.045"	.004"
	8.33	4.75	2.49	12.19	3.05	1.14	.10
11S9-6302-02	.481"	.223"	.102"	.625"	.120"	.045"	.002"
	12.22	5.66	2.59	15.88	3.05	1.14	.05
11S9-6303-02	.282"	.165"	.073"	.400"	.120"	.045"	.002"
	7.16	4.19	1.85	10.16	3.05	1.14	.05

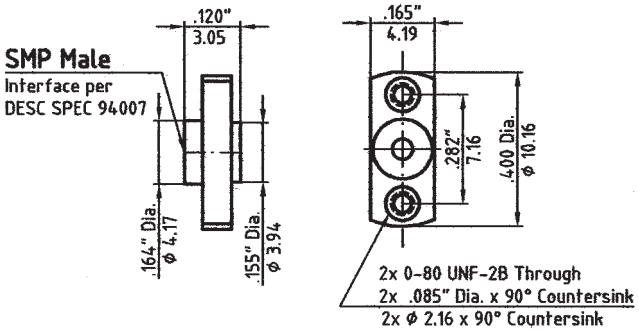
Connector outer conductor is passivated stainless steel.
Dimensions shown are inches over millimeters.



SMP male detent shroud

Connector Part No.	Interface
11N9-6304-02	non detent

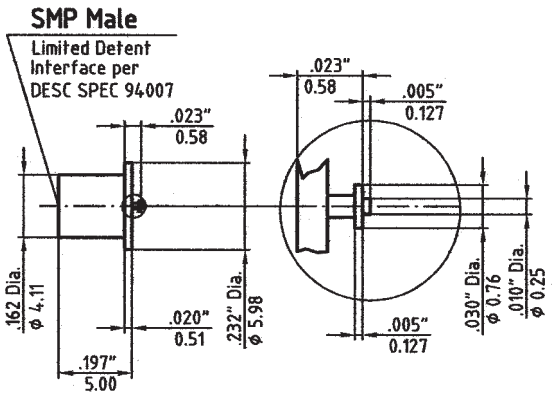
Connector outer conductor is passivated stainless steel.



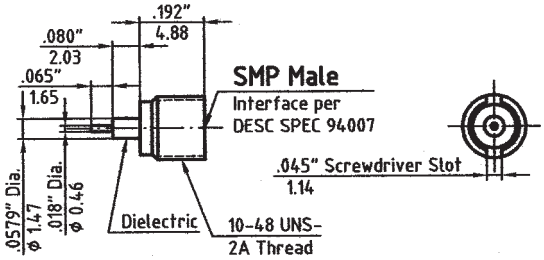
SMP male surface mount round flange

Connector Part No.	Interface
11L9-6304-02	limited detent

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



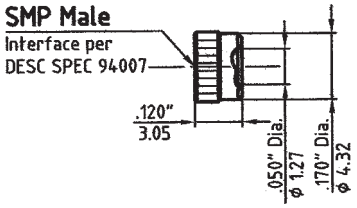
Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.



SMP male thread in

Connector Part No.	Interface
11F9-1101-02	full detent
11L9-1101-02	limited detent
11S9-1101-02	smooth bore

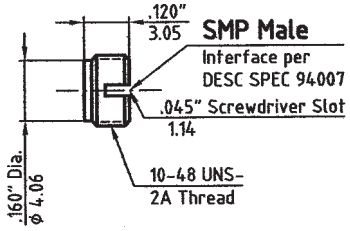
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



SMP male press in shroud

Connector Part No.	Interface
11F9-1102-02	full detent
11L9-1102-02	limited detent
11S9-1102-02	smooth bore

Connector outer conductor is passivated stainless steel.



SMP Shroud, thread in style

Connector Part No.	Interface
11F9-1103-02	full detent
11L9-1103-02	limited detent
11S9-1103-02	smooth bore

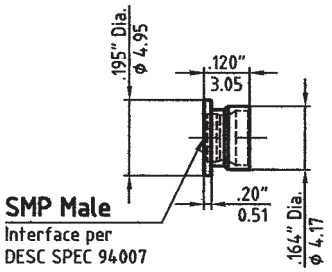
Connector outer conductor is passivated stainless steel.

Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

SMP Shroud solder in

Connector Part No.	Interface
11F9-1104-02	full detent
11L9-1104-02	limited detent
11S9-1104-02	smooth bore

Connector outer conductor is passivated stainless steel.



Dimensions shown are inches over millimeters. Standard units are beryllium copper gold plated (last two digits of the P/N are -04), or stainless steel gold plated (last two digits of the P/N are -00). Interface mating dimensions and specifications, as issued by DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

SMP

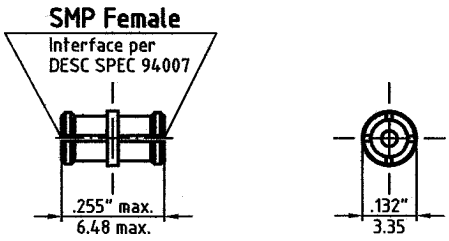
* 'K' Connector is a trademark of Wiltron Company.

SMP In-Series Adapters

Spectrum Elektrotechnik GmbH

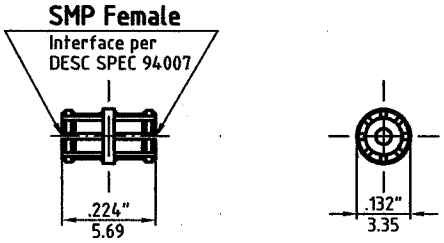
Adapter Part No.	8001-MPMP-04
Connector Config.	SMP-f to SMP-f
Frequency Range	DC to 40.0 GHz
VSWR	1.5 : 1 to 40.0 GHz

Connector outer conductor and center contact are berrylium copper gold plated.



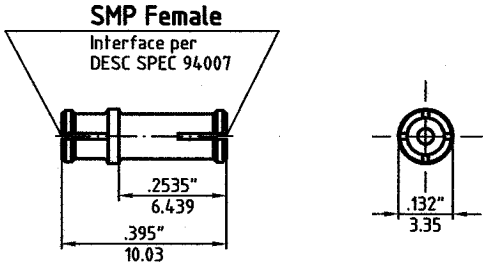
Adapter Part No.	8003-MPMP-04
Connector Config.	SMP-f to SMP-f
Frequency Range	DC to 40.0 GHz
VSWR	1.70 : 1 max to 40.0 GHz

Connector outer conductor and center contact are berrylium copper gold plated.



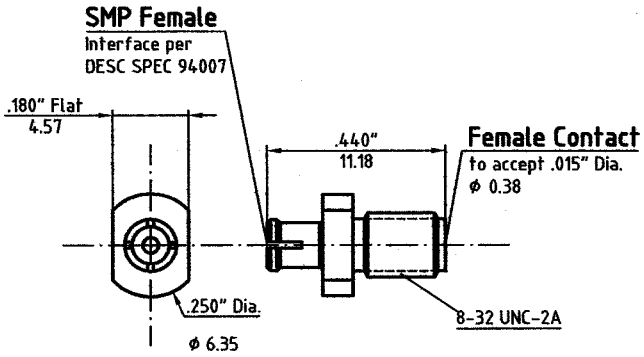
Adapter Part No.	8004-MPMP-04
Connector Config.	SMP-f to SMP-f
Frequency Range	DC to 40.0 GHz
VSWR	1.70 : 1 max to 40.0 GHz

Connector outer conductor and center contact are berrylium copper gold plated.



Adapter Part No.	8005-MPMP-04
Connector Config.	SMP-f to SMP-f
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

Connector outer conductor and center contact are berrylium copper gold plated.



Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

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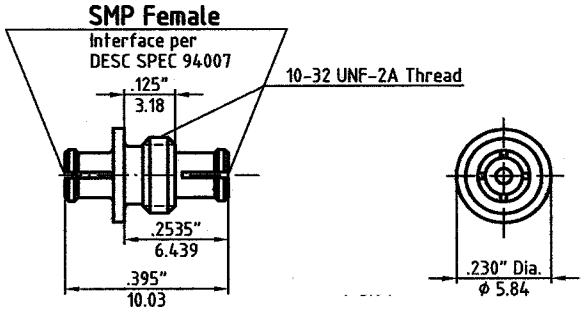
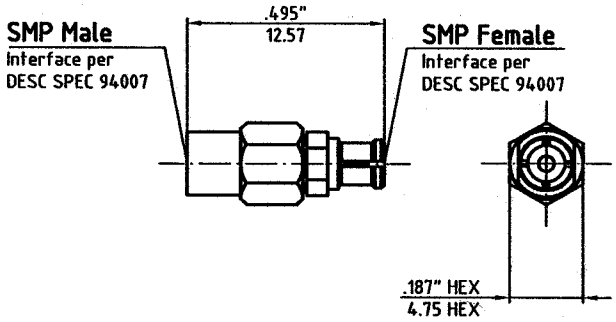
In-Series Adapters, Type SMP



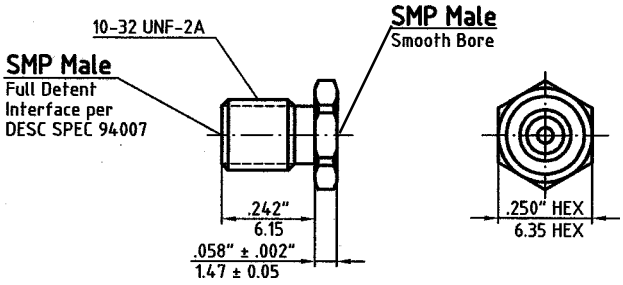
Adapter Part No.	8006-MPMP-04
Connector Config.	SMP-f to SMP-f
Frequency Range	DC to 40.0 GHz
VSWR	1.7 : 1 max to 40.0 GHz

Connector outer conductor and center contact are berrylium copper gold plated.



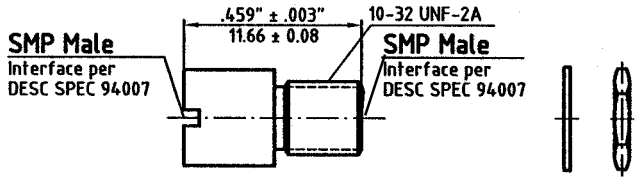
Adapter Part No.	8002-MJMP-04
Connector Config.	SMP-f to SMP-m
Frequency Range	DC to 40.0 GHz
VSWR	1.5 : 1 max to 40.0 GHz

Connector outer conductor and center contact are berrylium copper gold plated.



Adapter Part No.	8002-MJMJ-02
Connector Config.	SMP-m to SMP-m
Frequency Range	DC to 40.0 GHz
VSWR	1.3 : 1 max to 40.0 GHz

Connector outer conductor is passivated stainless steel. Center conductor is beryllium copper gold plated.

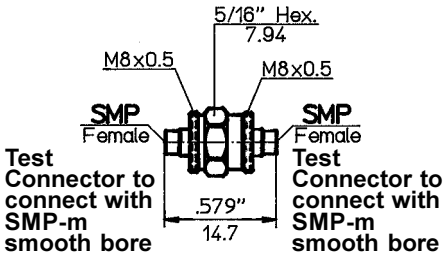


Adapter Part No.	8003-MJMJ-02
Connector Config.	SMP-m to SMP-m
Frequency Range	DC to 40.0 GHz
VSWR	1.3 : 1 max to 40.0 GHz

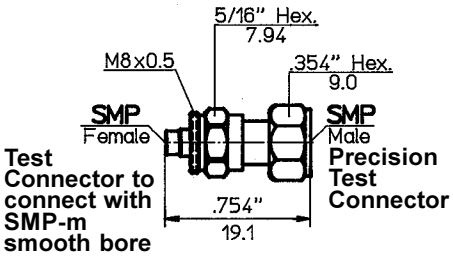
Connector outer conductor is passivated stainless steel. Center conductor is beryllium copper gold plated.

Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per DESC 94007 and DESC 94008. For details please refer to the beginning of this section.

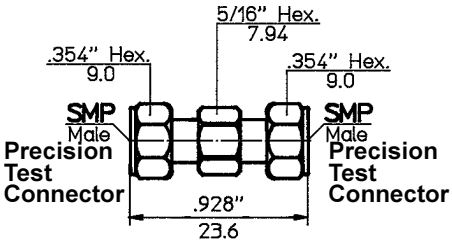
SMP-F to SMP-F		
Part No.	**Frequency**	**VSWR**
8801-TPTP-02	DC - 18.0	1.15 : 1
8802-TPTP-02	DC - 40.0	1.2 : 1



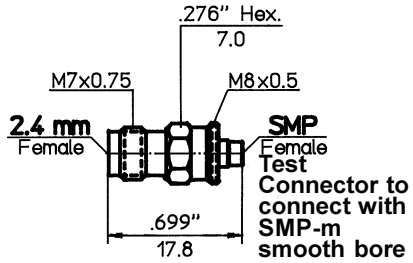
SMP-F to SMP-M		
Part No.	**Frequency**	**VSWR**
8801-TJTP-02	DC - 18.0	1.15 : 1
8802-TJTP-02	DC - 40.0	1.2 : 1



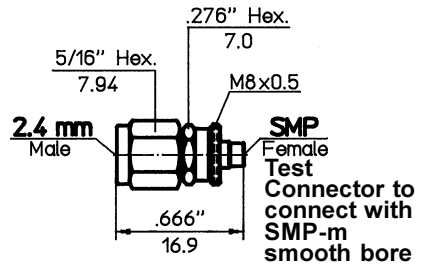
SMP-M to SMP-M		
Part No.	**Frequency**	**VSWR**
8801-TJTJ-02	DC - 18.0	1.15 : 1
8802-TJTJ-02	DC - 40.0	1.2 : 1



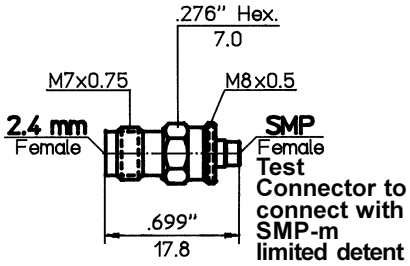
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per Spectrum Elektrotechnik GmbH Specifications. For details please refer to the beginning of this section.



Part - No.	8801-HFTP-02
Connectors	SMP-F to 2.4mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

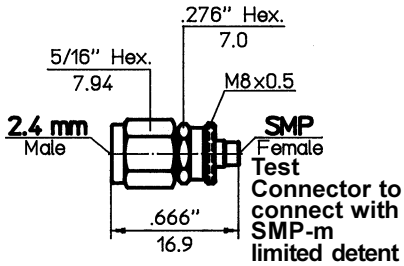


Part - No.	8801-HMTP-02
Connectors	SMP-F to 2.4mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-f connect with SMP male limited detent.

Part - No.	8801-HFTL-02
Connectors	SMP-F to 2.4mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



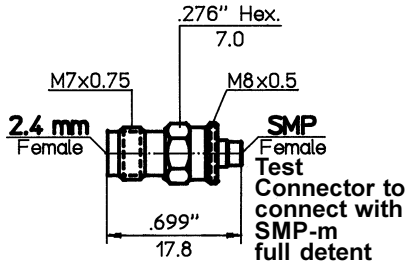
SMP-f connect with SMP male limited detent.

Part - No.	8801-HMTL-02
Connectors	SMP-F to 2.4mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

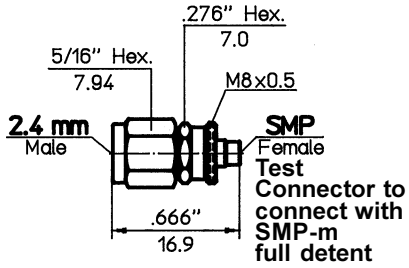
Spectrum Elektrotechnik GmbH

Part - No.	8801-HFTF-02
Connectors	SMP-F to 2.4mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



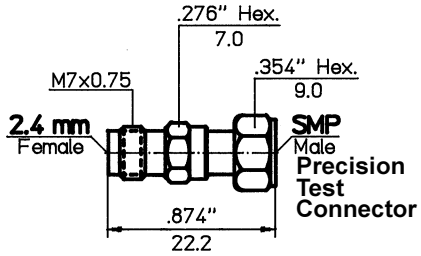
SMP-f connect with SMP male full detent.

Part - No.	8801-HMTF-02
Connectors	SMP-F to 2.4mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

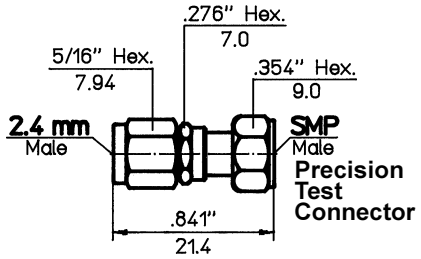


SMP-f connect with SMP male full detent.

Part - No.	8801- HFTJ - 02
Connectors	SMP-M to 2.4mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

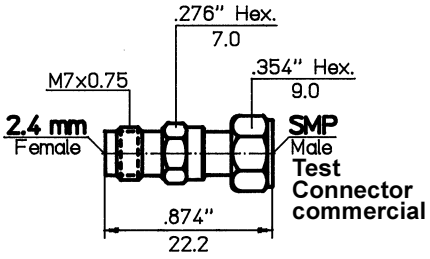


Part - No.	8801-HMTJ-02
Connectors	SMP-M to 2.4mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



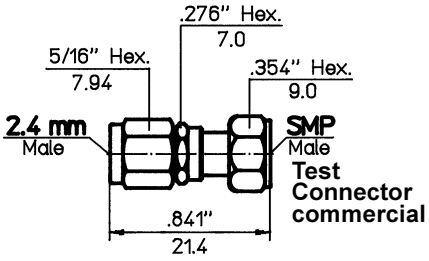
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

c:/mtk98/smp5.pm6



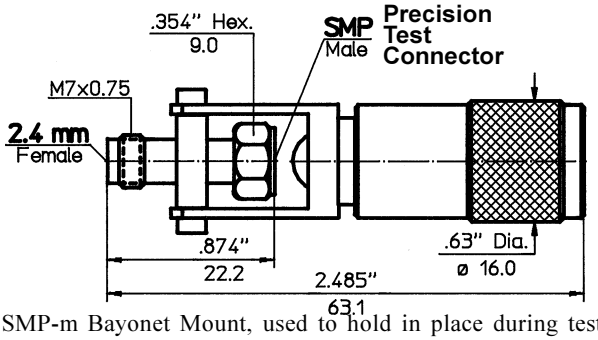
SMP-m commercial

Part - No.	8801-HFTC-02
Connectors	SMP-M to 2.4mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



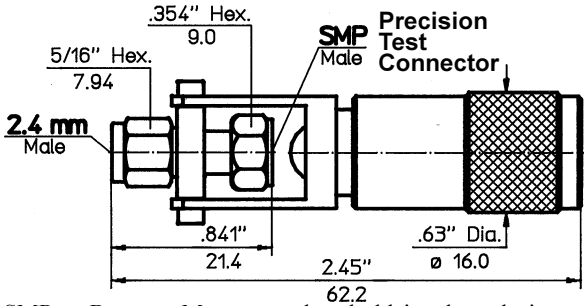
SMP-m commercial

Part - No.	8801-HMTC-02
Connectors	SMP-M to 2.4mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount, used to hold in place during testing the SMP right angle.

Part - No.	8801-HFTB- 02
Connectors	SMP-M to 2.4mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount, used to hold in place during testing the SMP right angle.

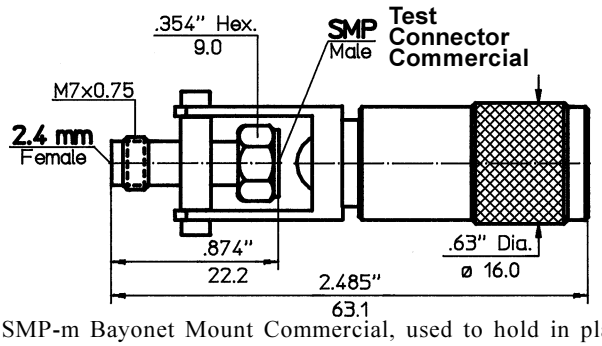
Part - No.	8801-HMTB- 02
Connectors	SMP-M to 2.4mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

c:/quick98/smp3.pm6

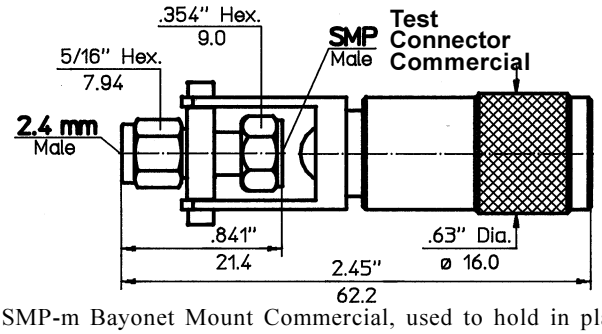
SMP Between Series Test Adapters

Part - No.	8801-HFTD-02
Connectors	SMP-M to 2.4mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



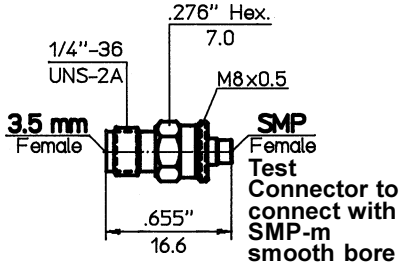
SMP-m Bayonet Mount Commercial, used to hold in place during testing the SMP right angle.

Part - No.	8801-HMTD-02
Connectors	SMP-M to 2.4mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

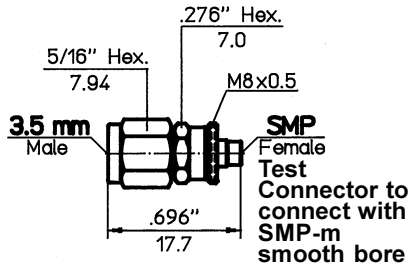


SMP-m Bayonet Mount Commercial, used to hold in place during testing the SMP right angle.

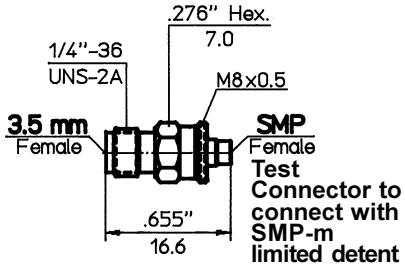
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.



Part - No.	8801-TP92-02
Connectors	SMP-F to 3.5mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

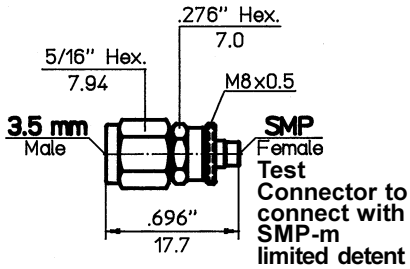


Part - No.	8801-TP91-02
Connectors	SMP-F to 3.5mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-f connect with SMP male limited detent.

Part - No.	8801-TL92-02
Connectors	SMP-F to 3.5mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



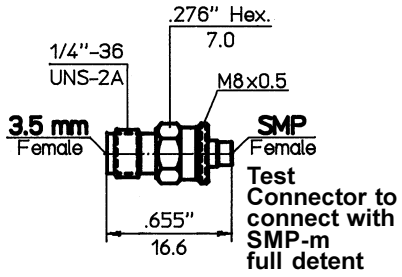
SMP-f connect with SMP male limited detent.

Part - No.	8801-TL91-02
Connectors	SMP-F to 3.5mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

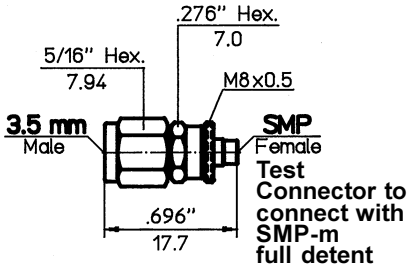
Spectrum Elektrotechnik GmbH

Part - No.	8801-TF92-02
Connectors	SMP-F to 3.5mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



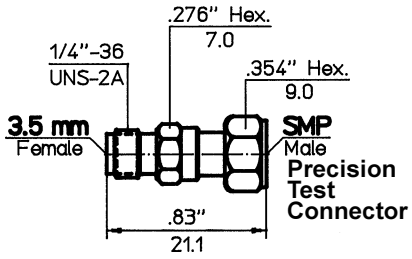
SMP-f connect with SMP male full detent.

Part - No.	8801-TF91-02
Connectors	SMP-F to 3.5mm -M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

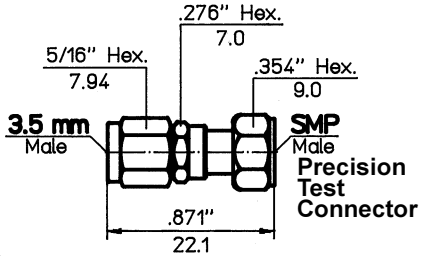


SMP-f connect with SMP male full detent.

Part - No.	8801- TJ92 - 02
Connectors	SMP-M to 3.5mm -F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

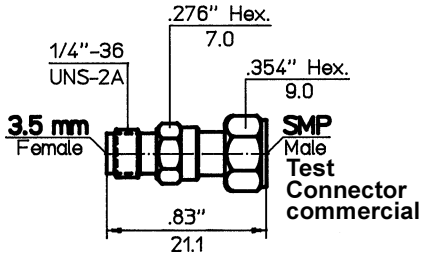


Part - No.	8801-TJ91-02
Connectors	SMP-M to 3.5mm-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



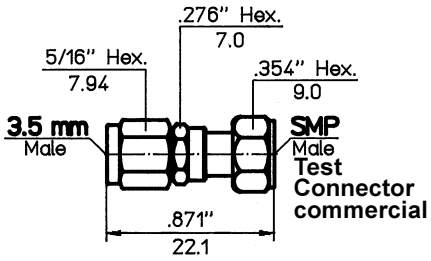
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

c:/mulc98/smp5.pm6



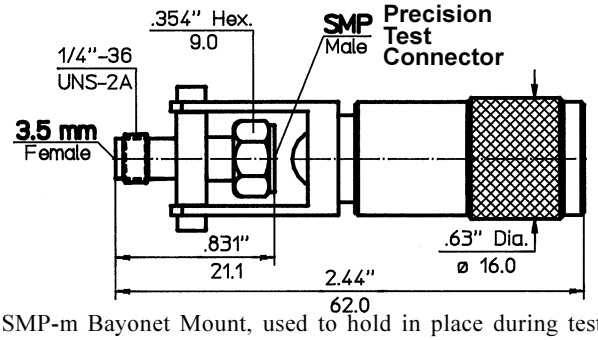
SMP-m commercial

Part - No.	8801-TC92-02
Connectors	SMP-M to 3.5mm-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



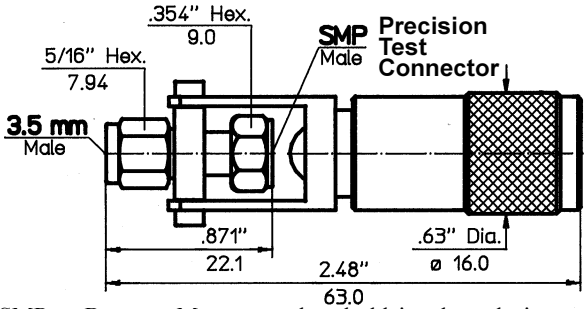
SMP-m commercial

Part - No.	8801-TC91-02
Connectors	SMP-M to 3.5mm-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount, used to hold in place during testing the SMP right angle.

Part - No.	8801-TB92- 02
Connectors	SMP-M to 3.5mm-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount, used to hold in place during testing the SMP right angle.

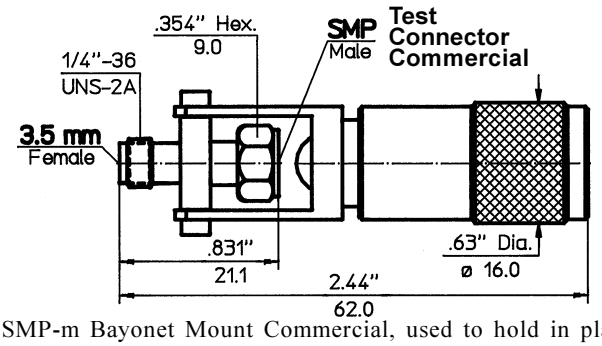
Part - No.	8801-TB91- 02
Connectors	SMP-M to 3.5mm-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

c:/quik98/smp3.pm6

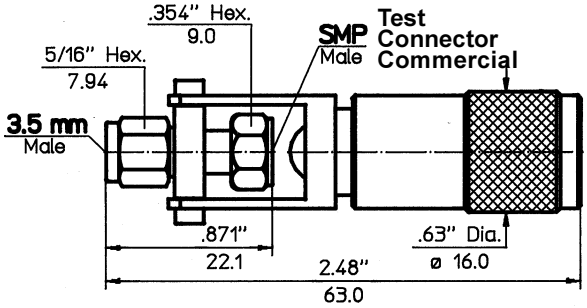
SMP Between Series Test Adapters

Part - No.	8801-TD92-02
Connectors	SMP-M to 3.5mm-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount Commercial, used to hold in place during testing the SMP right angle.

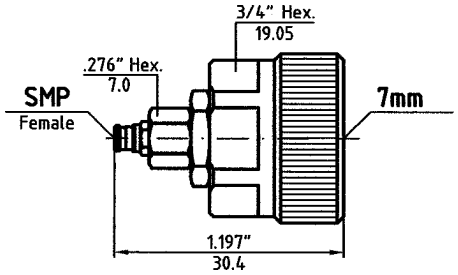
Part - No.	8801-TD91-02
Connectors	SMP-M to 3.5mm-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount Commercial, used to hold in place during testing the SMP right angle.

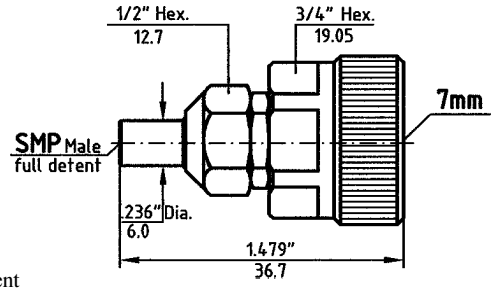
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

Between-Series Adapters, TypeSMP



Adapter Part No.	8001-MP90-02
Connector Config.	SMP-f to 7mm
Frequency Range	DC to 18.0 GHz
VSWR	1.10 : 1 max.

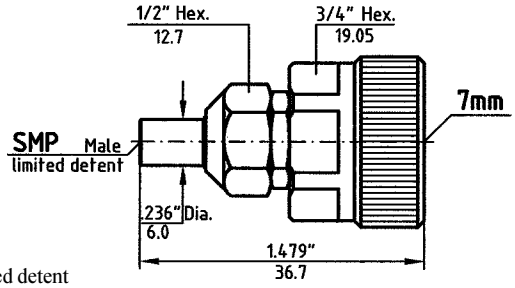
Connector outer conductor is passivated stainless steel. Center conductor is gold plated. If you require 6 slots at the 7mm Center Conductor, code changes to **8001-MP96-02.**



full detent

Adapter Part No.	8001-MJ90-02
Connector Config.	SMP-m to 7mm
Frequency Range	DC to 18.0 GHz
VSWR	1.10 : 1 max.

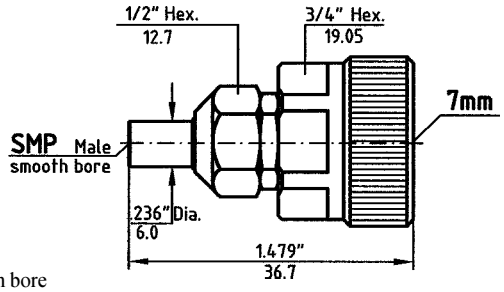
Connector outer conductor is passivated stainless steel. Center conductor is gold plated. If you require 6 slots at the 7mm Center Conductor, code changes to **8001-MJ96-02.**



limited detent

Adapter Part No.	8002-MJ90-02
Connector Config.	SMP-m to 7mm
Frequency Range	DC to 18.0 GHz
VSWR	1.10 : 1 max.

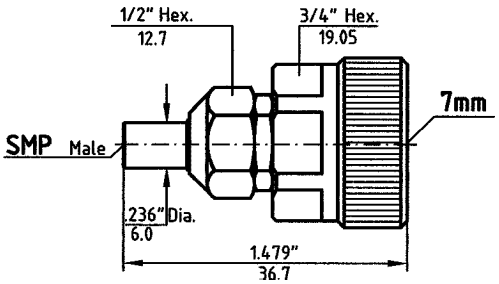
Connector outer conductor is passivated stainless steel. Center conductor is gold plated. If you require 6 slots at the 7mm Center Conductor, code changes to **8002-MJ96-02.**



smooth bore

Adapter Part No.	8003-MJ90-02
Connector Config.	SMP-m to 7mm
Frequency Range	DC to 18.0 GHz
VSWR	1.10 : 1 max.

Connector outer conductor is passivated stainless steel. Center conductor is gold plated. If you require 6 slots at the 7mm Center Conductor, code changes to **8003-MJ96-02.**



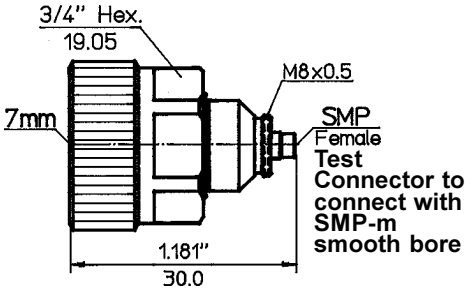
Adapter Part No.	8004-MJ90-02
Connector Config.	SMP-m to 7mm
Frequency Range	DC to 18.0 GHz
VSWR	1.10 : 1 max.

Connector outer conductor is passivated stainless steel. Center conductor is gold plated. If you require 6 slots at the 7mm Center Conductor, code changes to **8004-MJ96-02.**

Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, DESC 94007 and DESC 94008, where applicable. For details please refer to the beginning of this section.

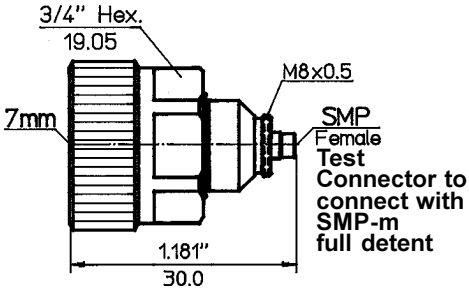
The Center Conductor of the 7 mm Connector is supplied with 4 slots. If you require 6 slots, Connector Code changes from **90** to **96**.

Part - No.	8801-TP90-02
Connectors	SMP-F to 7mm
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



The Center Conductor of the 7 mm Connector is supplied with 4 slots. If you require 6 slots, Connector Code changes from **90** to **96**.

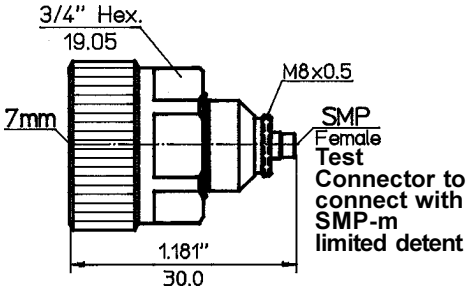
Part - No.	8801-TF90-02
Connectors	SMP-F to 7mm
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-f connect with SMP male full detent.

The Center Conductor of the 7 mm Connector is supplied with 4 slots. If you require 6 slots, Connector Code changes from **90** to **96**.

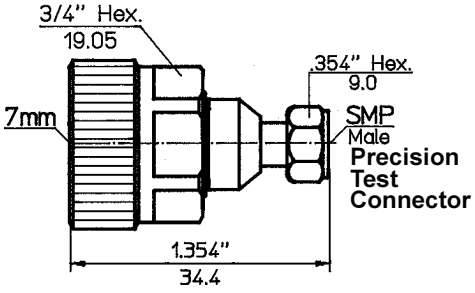
Part - No.	8801-TL90-02
Connectors	SMP-F to 7mm
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-f connect with SMP male limited detent.

The Center Conductor of the 7 mm Connector is supplied with 4 slots. If you require 6 slots, Connector Code changes from **90** to **96**.

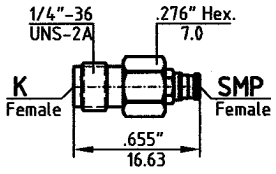
Part - No.	8801-TJ90-02
Connectors	SMP-M to 7mm
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

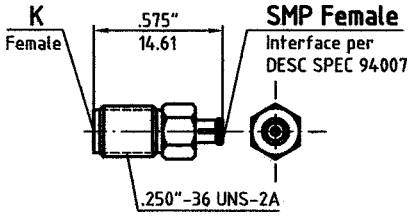
c:/quick98/smp5.pm6

Between-Series Adapters, Type SMP



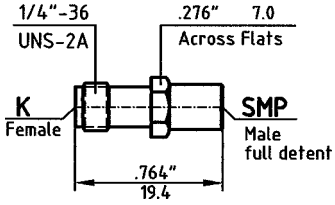
Adapter Part No.	8001-KFMP-02
Connector Config.	SMP-f to K*-f
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



Adapter Part No.	8002-KFMP-02
Connector Config.	SMP-f to K*-f
Frequency Range	DC to 40.0 GHz
VSWR	1.5 : 1 max to 40.0 GHz

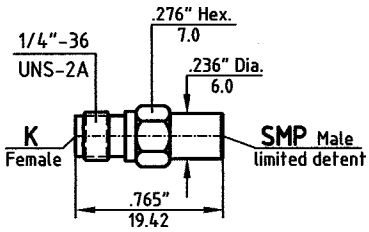
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



full detent

Adapter Part No.	8001-KFMJ-02
Connector Config.	SMP-m to K*-f
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



limited detent

Adapter Part No.	8002-KFMJ-02
Connector Config.	SMP-m to K*-f
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.

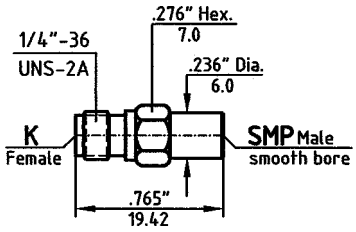
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, DESC 94007 and DESC 94008, where applicable. For details please refer to the beginning of this section.

SMP Between-Series Adapters

smooth bore

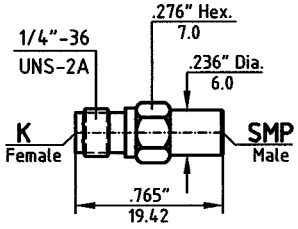
Adapter Part No.	8003-KFMJ-02
Connector Config.	SMP-m to K*-f
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



Adapter Part No.	8004-KFMJ-02
Connector Config.	SMP-m to K*-f
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

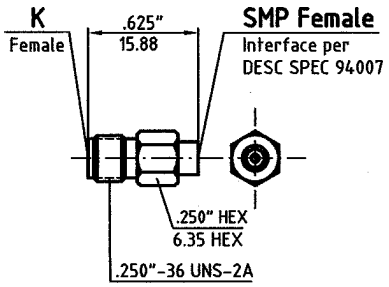
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



limited detent

Adapter Part No.	8002-KFMJ-02
Connector Config.	SMP-m to K*-f
Frequency Range	DC to 40.0 GHz
VSWR	1.5 : 1 max to 40.0 GHz

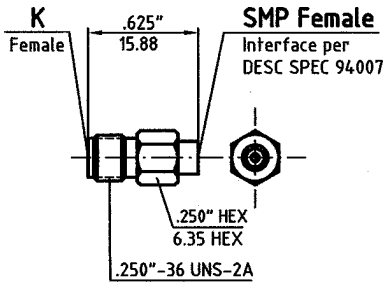
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



smooth bore

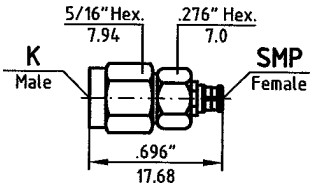
Adapter Part No.	8003-KFMJ-02
Connector Config.	SMP-m to K*-f
Frequency Range	DC to 40.0 GHz
VSWR	1.5 : 1 max to 40.0 GHz

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



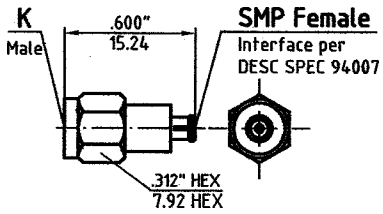
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, DESC 94007 and DESC 94008, where applicable. For details please refer to the beginning of this section.

Between-Series Adapters, Type SMP



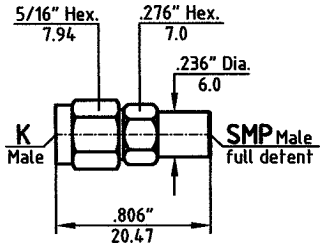
Adapter Part No.	8001-KMMP-02
Connector Config.	SMP-f to K*-m
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



Adapter Part No.	8002-KMMP-02
Connector Config.	SMP-f to K*-m
Frequency Range	DC to 40.0 GHz
VSWR	1.5 : 1 max to 40.0 GHz

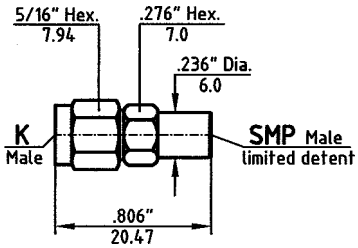
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



full detent

Adapter Part No.	8001-KMMJ-02
Connector Config.	SMP-m to K*-m
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



limited detent

Adapter Part No.	8002-KMMJ-02
Connector Config.	SMP-m to K*-m
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.

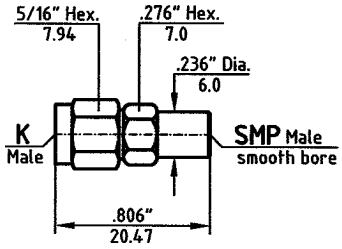
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, DESC 94007 and DESC 94008, where applicable. For details please refer to the beginning of this section.

SMP Between-Series Adapters

smooth bore

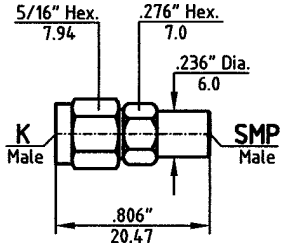
Adapter Part No.	8003-KMMJ-02
Connector Config.	SMP-m to K*-m
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



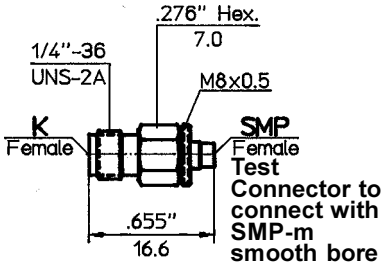
Adapter Part No.	8004-KMMJ-02
Connector Config.	SMP-m to K*-m
Frequency Range	DC to 40.0 GHz
VSWR	1.20 : 1 max.

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.

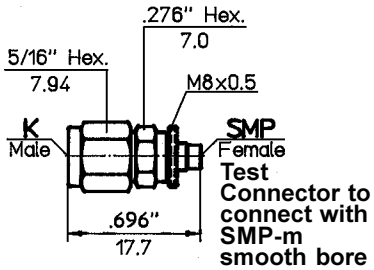


Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, DESC 94007 and DESC 94008, where applicable. For details please refer to the beginning of this section.

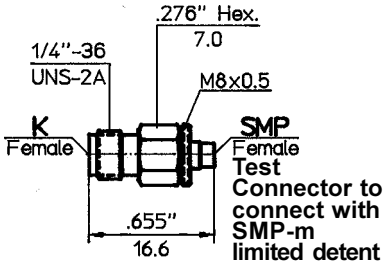
c:/quick98/smp5.pm6



Part - No.	8801-KFTP-02
Connectors	SMP-F to K*-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

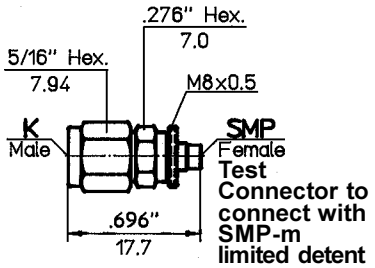


Part - No.	8801-KMTP-02
Connectors	SMP-F to K*-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-f connect with SMP male limited detent.

Part - No.	8801-KFTL-02
Connectors	SMP-F to K*-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

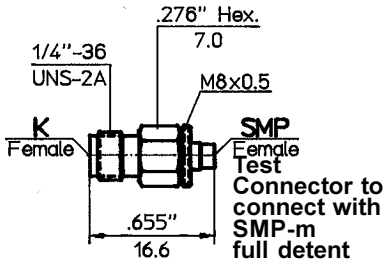


SMP-f connect with SMP male limited detent.

Part - No.	8801-KMTL-02
Connectors	SMP-F to K*-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

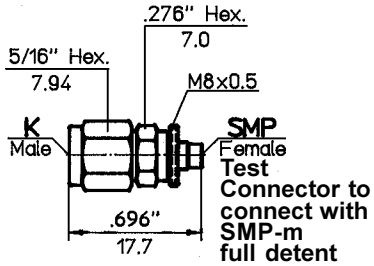
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

Part - No.	8801-KFTF-02
Connectors	SMP-F to K*-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



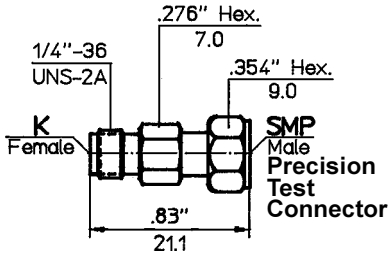
SMP-f connect with SMP male full detent.

Part - No.	8801-KMTF-02
Connectors	SMP-F to K*-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

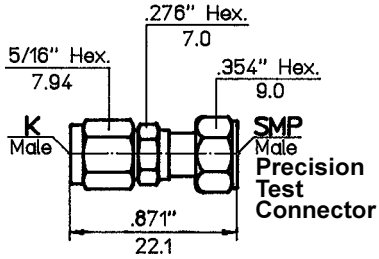


SMP-f connect with SMP male full detent.

Part - No.	8801- KFTJ - 02
Connectors	SMP-M to K*-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

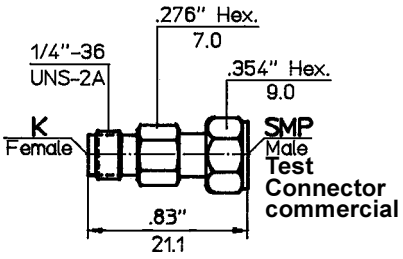


Part - No.	8801-KMTJ-02
Connectors	SMP-M to K*-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



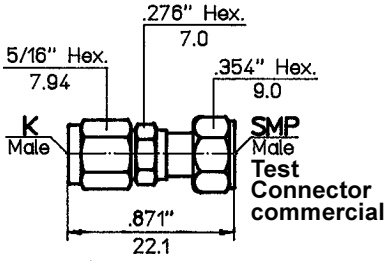
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

c:/quick98/smp5.pm6



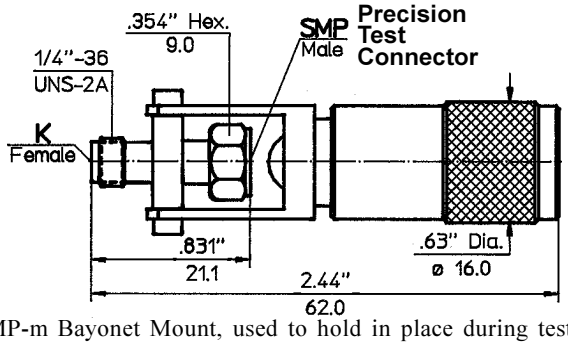
SMP-m commercial

Part - No.	8801-KFTC-02
Connectors	SMP-M to K*-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



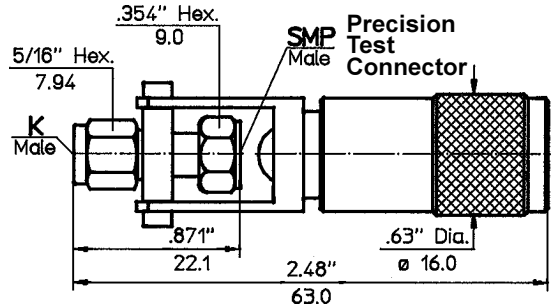
SMP-m commercial

Part - No.	8801-KMTC-02
Connectors	SMP-M to K*-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount, used to hold in place during testing the SMP right angle.

Part - No.	8801-KFTB- 02
Connectors	SMP-M to K*-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount, used to hold in place during testing the SMP right angle.

Part - No.	8801-KMTB- 02
Connectors	SMP-M to K*-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1

Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

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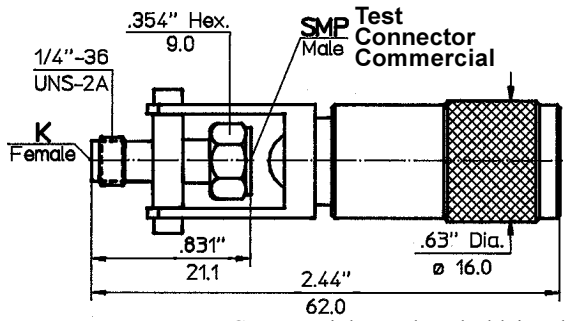
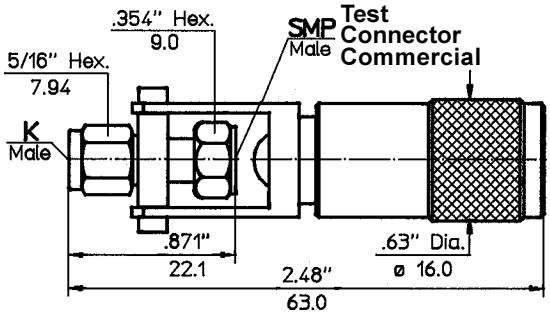
Spectrum Elektrotechnik GmbH

Part - No.	8801-KFTD-02
Connectors	SMP-M to K*-F
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount Commercial, used to hold in place during testing the SMP right angle.

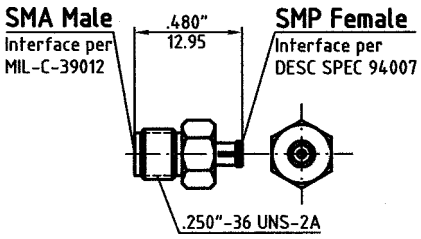
Part - No.	8801-KMTD-02
Connectors	SMP-M to K*-M
Frequency	DC - 18.0 GHz
VSWR max.	1.10 : 1



SMP-m Bayonet Mount Commercial, used to hold in place during testing the SMP right angle.

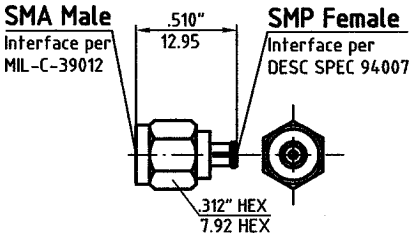
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, Spectrum Elektrotechnik GmbH Specifications, as applicable. For details please refer to the beginning of this section.

Between-Series Adapters, Type SMP



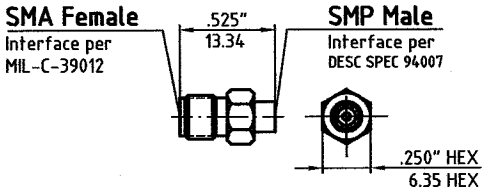
Adapter Part No.	8001-MP21-04
Connector Config.	SMP-f to SMA-f
Frequency Range	DC to 12.0 GHz
VSWR	1.03 + 0.01 x f (GHz)

Connector outer conductor is passivated stainless steel. Center conductor is berrylium copper gold plated.



Adapter Part No.	8001-MP11-04
Connector Config.	SMP-f to SMA-m
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

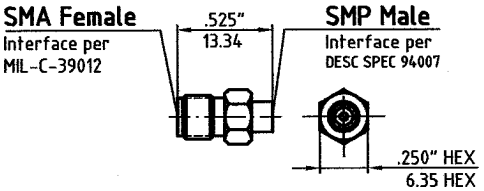
Connector outer conductor is passivated stainless steel. Center conductor is berrylium copper gold plated.



limited detent

Adapter Part No.	8001-MJ21-02
Connector Config.	SMP-m to SMA-f
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

Connector outer conductor is passivated stainless steel. Center conductor is gold plated.



smooth bore

Adapter Part No.	8002-MJ21-02
Connector Config.	SMP-m to SMA-f
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

Connector outer conductor is passivated stainless steel. Center conductor is gold plated.

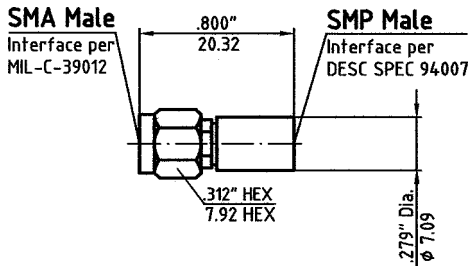
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, DESC 94007 and DESC 94008, where applicable. For details please refer to the beginning of this section.

SMP Between-Series Adapters

Spectrum Elektrotechnik GmbH

Adapter Part No.	8003-MJ11-02
Connector Config.	SMP-m to SMA-m
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

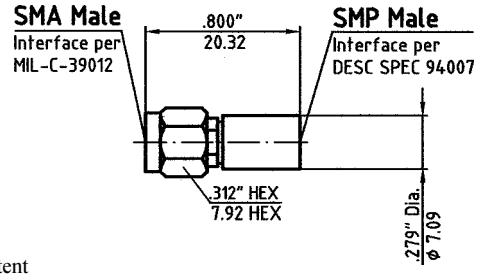
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



full detent

Adapter Part No.	8004-MJ11-02
Connector Config.	SMP-m to SMA-m
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

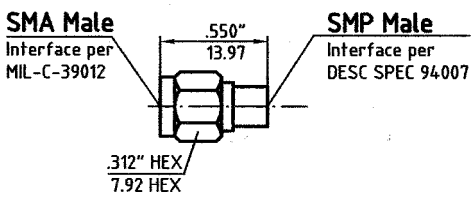
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



limited detent

Adapter Part No.	8001-MJ11-02
Connector Config.	SMP-m to SMA-m
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

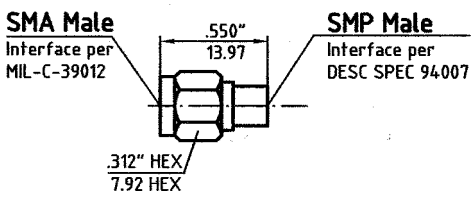
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



limited detent

Adapter Part No.	8002-MJ11-02
Connector Config.	SMP-m to SMA-m
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

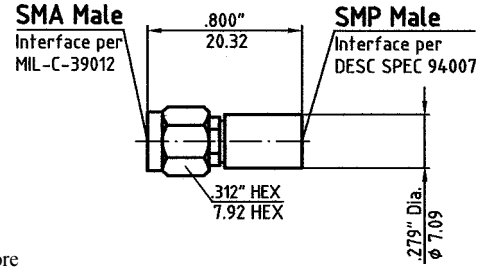
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



smooth bore

Adapter Part No.	8005-MJ11-02
Connector Config.	SMP-m to SMA-m
Frequency Range	DC to 18.0 GHz
VSWR	1.25 : 1 max to 18.0 GHz

Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



smooth bore

Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, DESC 94007 and DESC 94008, where applicable. For details please refer to the beginning of this section.

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