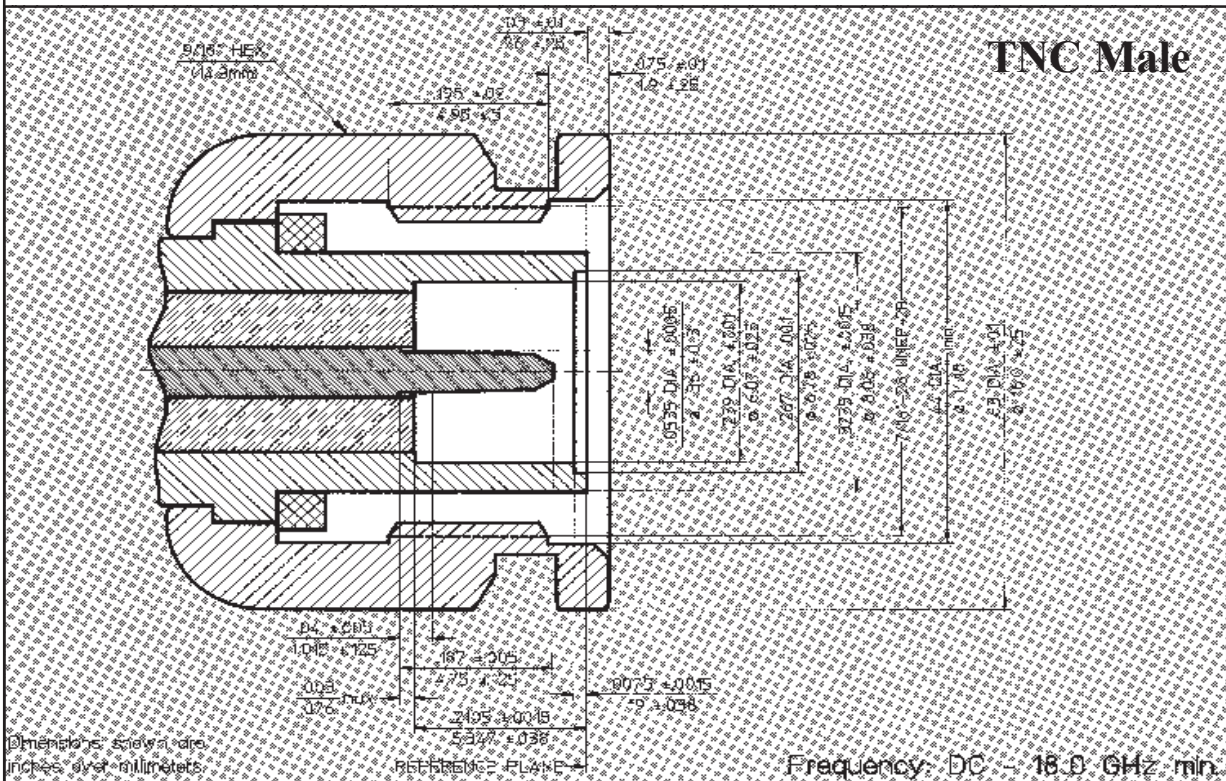
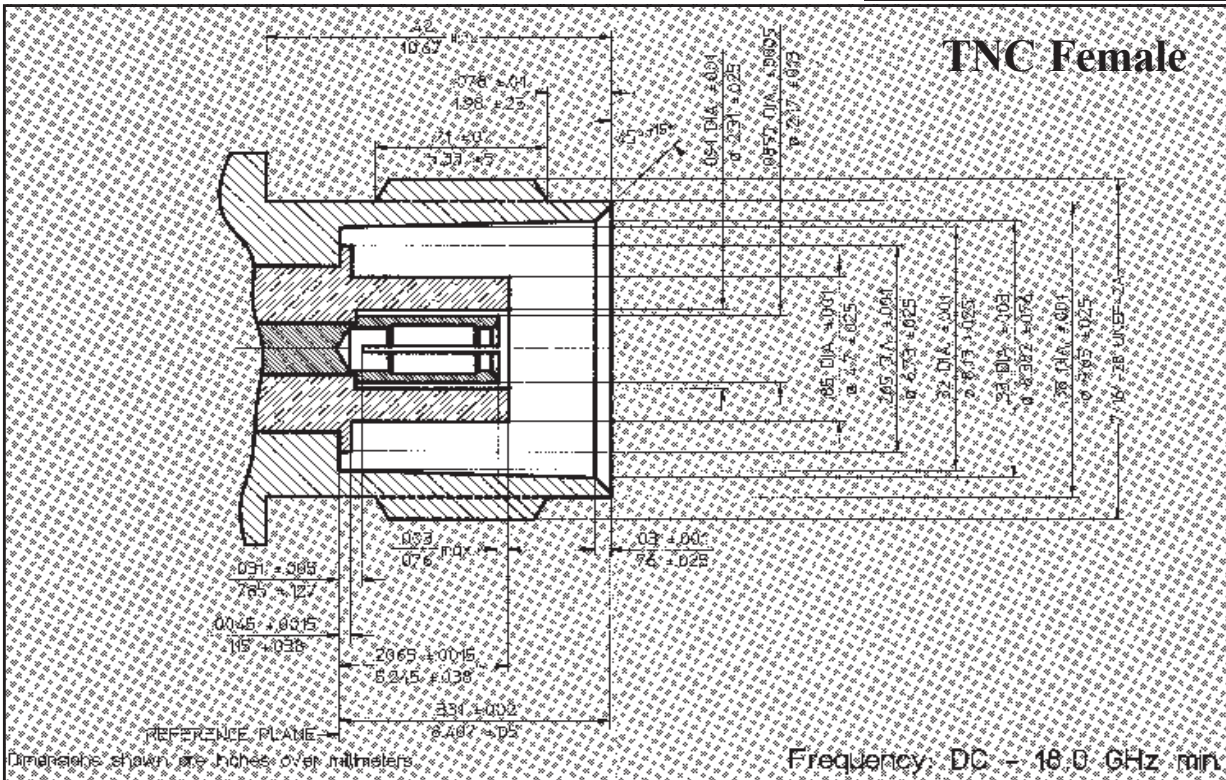


TNC PUSH-ON

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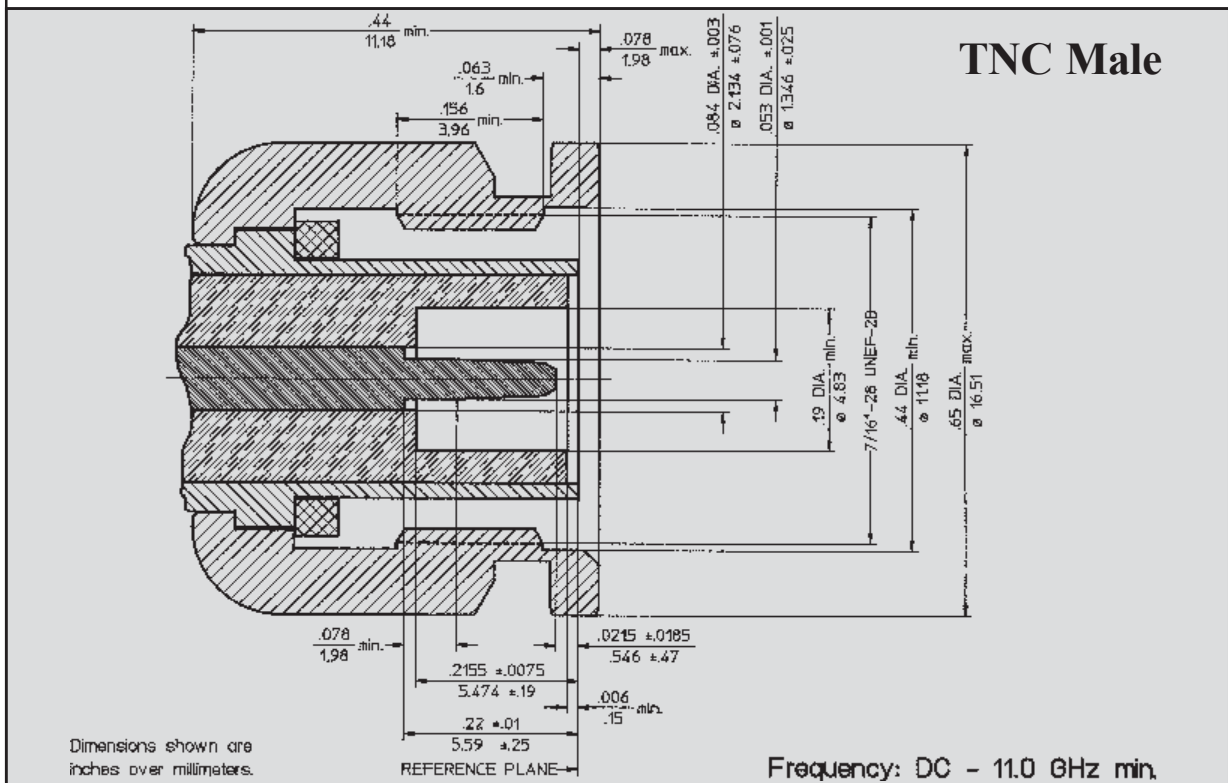
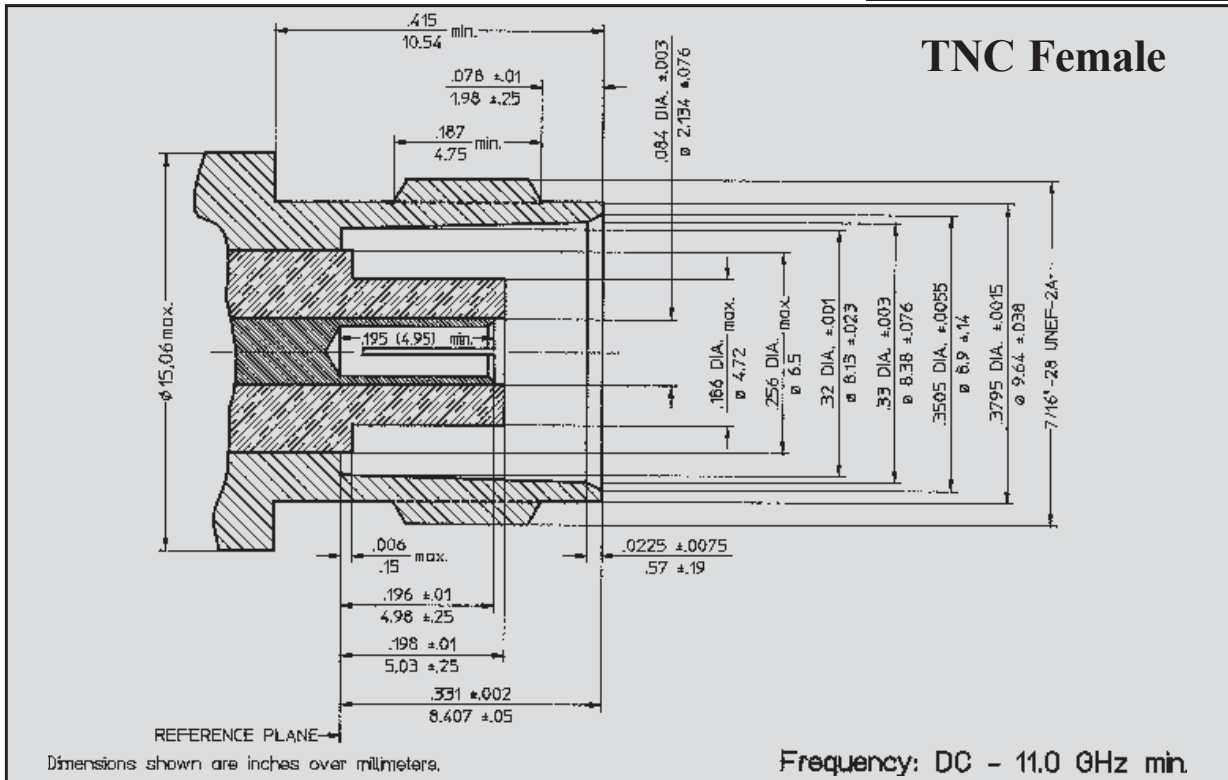


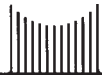
The specifications below are general specifications for all TNC PUSH-ON connectors. Specifications in the following table are recommended for any procurement documents or drawings. In the event of any conflict, these specifications shall govern. The PUSH-ON Connectors were developed to eliminate the time consuming lightening, torquing and loosening of connectors during test. The connector slides directly onto any Female of the same connector style, allowing quick connecting and disconnecting. Its mechanism locks safely onto the standard thread of the Female connector.

REQUIREMENT	REQUIREMENT PARAGRAPH	GENERAL SPECIFICATIONS
GENERAL		
Standard Materials	3.3	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, halfhard). 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 3.3.1	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.
	BRASS	Other parts, such as Coupling Nuts and Back-Bodies shall be anodized per MIL-A-8625. 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	3.4	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	3.5.1.1	DC - 18.0 GHz min.
Insulation Resistance	3.11*	The insulation resistance shall not be less than 5.000 megohms.
Voltage Standing Wave Ratio (VSWR)	3.5.1.2	1.15 : 1
Contact Resistance	3.16*	The center contact resistance drop shall not exceed 1.0 milliohms max.
Dielectric Withstanding Voltage	3.17*	The magnitude of the test voltage shall be 2500 volts rms at 60 Hz.
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 1,500 volts rms at 5 MHz.
RF Leakage	3.5.1.8	90 dB max. to 3.0 GHz, -65 dB max. to 18.0 GHz
Insertion Loss	3.5.1.3	0.2 dB max. at 18.0 GHz
Impedance		50 Ohms Nominal
Corona Level Voltage		375 Volts at 70,000 ft.
MECHANICAL		
Connector Durability	3.15*	The connector is to be tested and its mating connector shall be subjected to 500 insertion 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.
Temperature		-65°C to +100°C
Force to Engage and Disengage	3.5.1*	The Force to Engage and Disengage shall not exceed 2-4 inch-pounds (0.452-0.678 Nm).
Longitudinal Force max.		Longitudinal force is not applicable.
ENVIRONMENTAL		
Corrosion (Salt Spray)	3.13*	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be 5%.
Vibration	3.18*	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19*	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20*	Specification MIL-STD-202, Method 107, Test Condition B, except high temperature shall be + 200°C.
Moisture Resistance	3.21*	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.

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* not specified in MIL-C-87104/2. It is referred here to MIL-C-39012.





The specifications below are general specifications for all TNC PUSH-ON connectors. Specifications in the following table are recommended for any procurement documents or drawings. In the event of any conflict, these specifications shall govern. The PUSH-ON Connectors were developed to eliminate the time consuming lightening, torquing and loosening of connectors during test. The connector slides directly onto any Female of the same connector style, allowing quick connecting and disconnecting. Its mechanism locks safely onto the standard thread of the Female connector.

REQUIREMENT	REQUIREMENT PARAGRAPH	GENERAL SPECIFICATIONS
GENERAL		
Standard Materials	3.3	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, halfhard). 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 3.3.1	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.
	BRASS	Other parts, such as Coupling Nuts and Back-Bodies shall be anodized per MIL-A-8625.
	VARIOUS	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. Imoloy .0001 inch (2.5 µm) min. plating, consisting of 55% Copper / 20% Zinc / 25% Tin (on special request).
Design	3.4	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 - 11.0 GHz min.
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms.
Voltage Standing Wave Ratio (VSWR)	3.14	1.03 + .005 * f (GHz)
Contact Resistance	3.16	The center contact resistance drop shall not exceed 1.5 milliohms and the outer contact resistance drop shall not exceed 2.0 milliohms.
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 1,500 volts rms at sea level.
High Potential Test Voltage	3.23	The high potential test voltage is 1,500 volts rms. Leakage is not applicable.
RF Leakage	3.26	-(90 - f (GHz)) dB
Insertion Loss	3.27	(.05 SQT(f(GHz))) dB
MECHANICAL		
Connector Durability	3.15	The connector is to be tested and its mating connector shall be subjected to 500 insertion and withdrawal cycles at 12 cycles per minute max. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements.
Cable Retention Force	3.24	90 pounds (400 N) min.
Coupling Nut Retention Force	3.25	Not applicable for Female connectors. For male connectors, the axial force is 100 lbs (445 N) max.. The torque is 30 inch-pounds (3.4 Nm) max.
Force to Engage and Disengage Longitudinal Force max.	3.5.1	The torque required to engage and disengage shall not exceed 2-4 inch-pounds (0.452-0.678 Nm). Longitudinal force is not applicable.
Mating Characteristics	3.7	See interface dimensions shown on next page. Applicable to Females only: oversize pin .055 inch (1.4 mm) max. dia., .080 inch (2.03 mm) deep; insertion force 2 lbs. (8.9 N) max. with .054 inch (1.37 mm) min. dia. pin; withdrawal force 2.00 oz (.556 N) min. with .052 inch (1.32 mm) max. dia. pin.
Recommended Mating Torque		12 - 15 inch-pounds (1.4 - 1.7 Nm)
ENVIRONMENTAL		
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be 5%.
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition B.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20	Specification MIL-STD-202, Method 107, Test Condition B, except high temperature shall be + 200°C.
Moisture Resistance	3.21	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	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 375 volts rms and the altitude is 70,000 feet.

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PUSH-ON TNC-TYPE CONNECTORS eliminate time consuming tightening, torquing and loosening of TNC-male connectors during testing or in applications where limited space requirements make tightening and torquing of a coupling nut difficult, if not impossible.

The TNC push-on slides directly onto any standard TNC-female, allowing prompt connection and loosening. Three types of push-on TNC connectors are available: full-locking, locking with non-locking rear nut, and non-locking.

Full Locking push-on TNC-Type connectors are recommended when longer testing is required and the connectors must be firmly locked so that they cannot be disconnected, even by mistake. **Locking with non-locking rear nut** TNC-Type connectors are recommended where safe locking is necessary, but long term testing is not required. **Non-locking** push-on connectors are recommended for short period testing, testing that usually takes only seconds.

Push-On TNC-Type connectors are available for termination with cables RG-142B/U, RG-400/U and RG-214/U. State-of-the-art high performance cables using push-on connectors are available as well, however, these high performance cable assemblies are only available completely terminated; they can be found in the section "Cable Assemblies" on page 242 -243 of this catalog.

PUSH-ON TNC-TYPE CONNECTOR SAVERS, or adapters, were developed for attachment to cable assemblies which are terminated with regular connectors. The adapter has a standard connector on one side, and a push-on connector on the other end. The standard connector end of the adapter engages with the standard connector of the opposite sex at the cable assembly. These connector savers modify cable assemblies in seconds, changing them from a standard product to a state-of-the-art push-on assembly.

Push-on adapters are available for a variety of connectors and both male and female sexes within the connector series. TNC-type push-on connectors savers are supplied in **full locking, locking with non-locking rear nut** and **non-locking** configuration.

FEATURES:

REPEATABLE PERFORMANCE
SAFE LOCKING MECHANISM*
REDUCED TEST TIME

LOW INSERTION LOSS
HIGH RETURN LOSS
DC- 18.0 GHz per MIL-C-87104/2
DC- 11.0 GHz per MIL-C-39012
LONG LIFE

* on Full Locking and Locking Units

TNC PUSH-ON

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	Non Locking MIL-C-87104/2	200
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TNC PUSH-ON Connectors

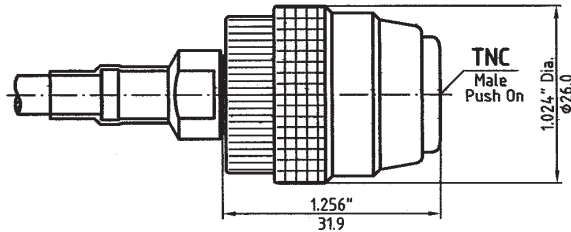
DC - 18.0 GHz
MIL-C-87104/2



Full Locking DC-18.0 GHz, MIL-C-87104/2

Connector Part No.	Flexible Cable Type	Cable Code	Connector Code
4015-TS01-02	RG-142B/U	42	TS
4015-TS02-02	RG-400/U	40	
4017-TS01-02	RG-214/U	21	

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

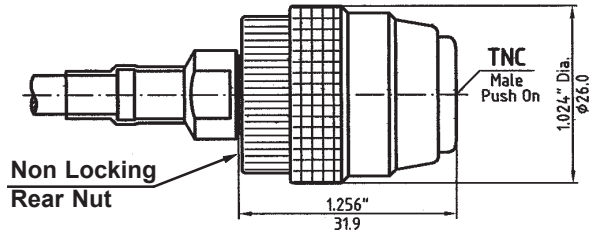


DC-18.0 GHz, MIL-C-87104/2

Locking with Non-locking Rear Nut

Connector Part No.	Flexible Cable Type	Cable Code	Connector Code
4015-TR01-02	RG-142B/U	42	TR
4015-TR02-02	RG-400/U	40	
4017-TR01-02	RG-214/U	21	

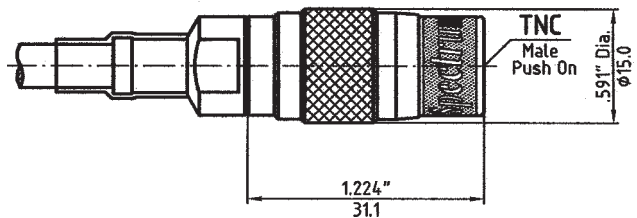
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



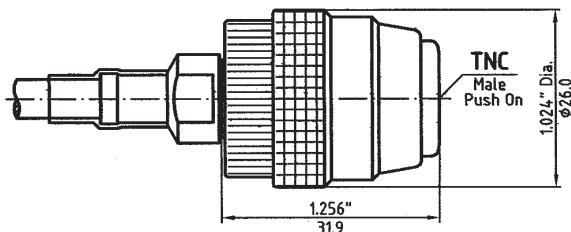
NON Locking DC-18.0 GHz, MIL-C-87104/2

Connector Part No.	Flexible Cable Type	Cable Code	Connector Code
4015-TN01-02	RG-142B/U	42	TN
4015-TN02-02	RG-400/U	40	
4017-TN01-02	RG-214/U	21	

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



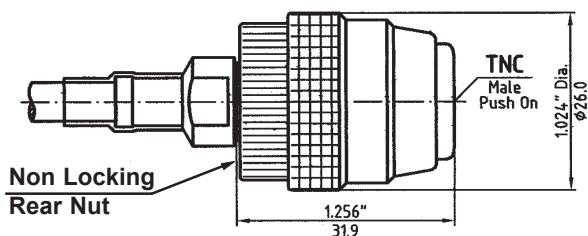
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C-87104/2. For details please refer to the beginning of this section.



DC-11.0 GHz, MIL-C-39012 **Full Locking**

Connector Part No.	Flexible Cable Type	Cable Code	Connector Code
4215-TS01-02	RG-142B/U	42	TS3
4215-TS02-02	RG-400/U	40	
4217-TS01-02	RG-214/U	21	

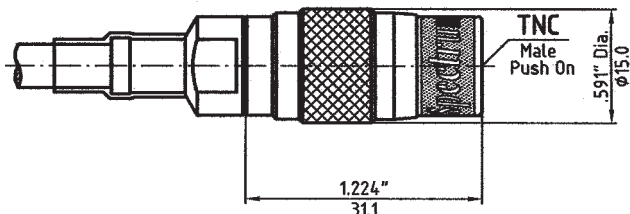
Connector outer conductor is passivated stainless steel. Center conductor is gold plated.



DC-11.0 GHz, MIL-C-39012 **Locking with Non-locking Rear Nut**

Connector Part No.	Flexible Cable Type	Cable Code	Connector Code
4215-TR01-02	RG-142B/U	42	TR3
4215-TR02-02	RG-400/U	40	
4217-TR01-02	RG-214/U	21	

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



DC-11.0 GHz, MIL-C-39012 **NON Locking**

Connector Part No.	Flexible Cable Type	Cable Code	Connector Code
4215-TN01-02	RG-142B/U	42	TN3
4215-TN02-02	RG-400/U	40	
4217-TN01-02	RG-214/U	21	

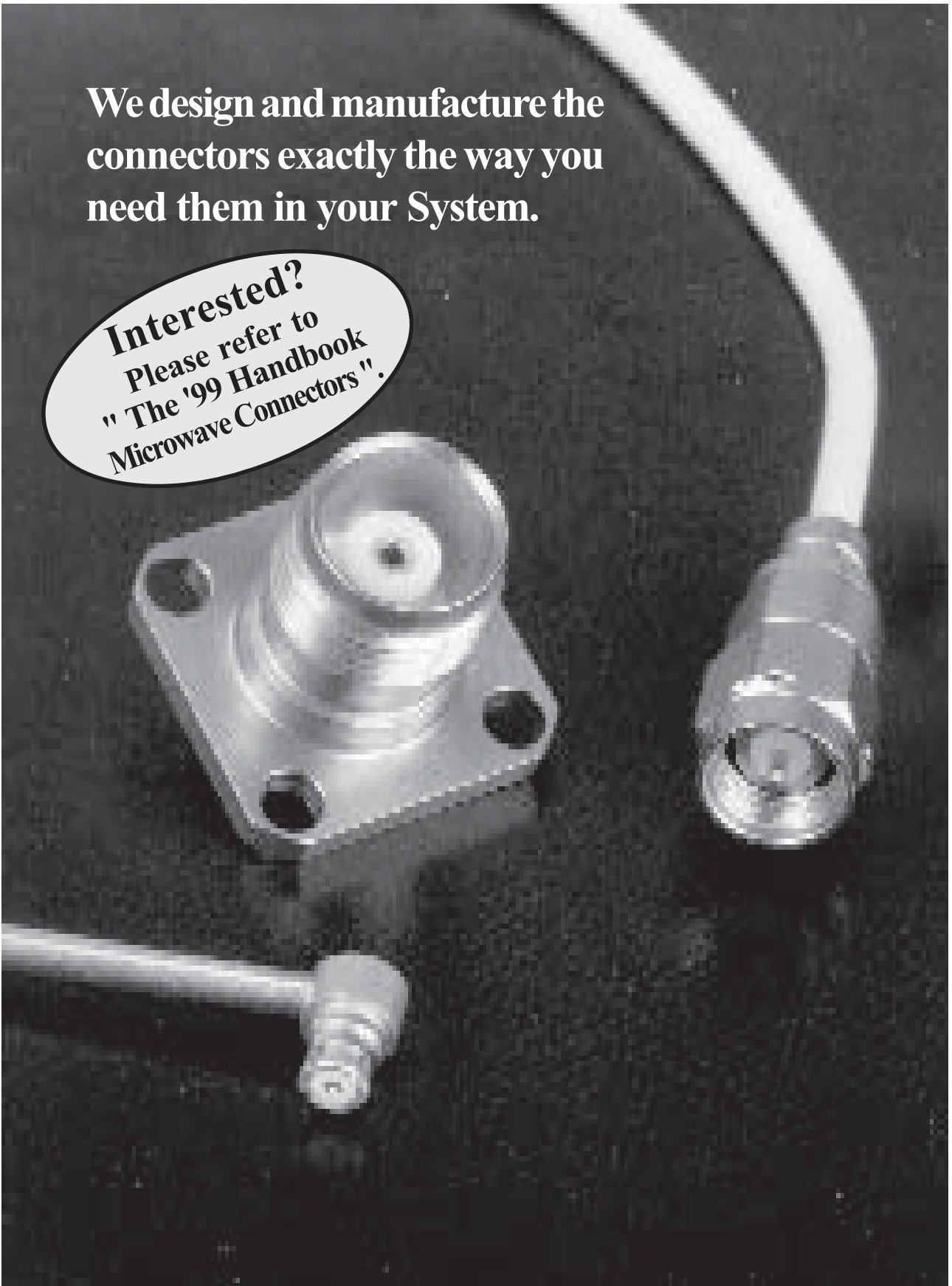
Connector outer conductor is passivated stainless steel. Center conductor is gold plated.

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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. For details please refer to the beginning of this section.

**We design and manufacture the
connectors exactly the way you
need them in your System.**

**Interested?
Please refer to
"The '99 Handbook
Microwave Connectors".**



TNC

PUSH-ON

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TNC PUSH-ON Adapters

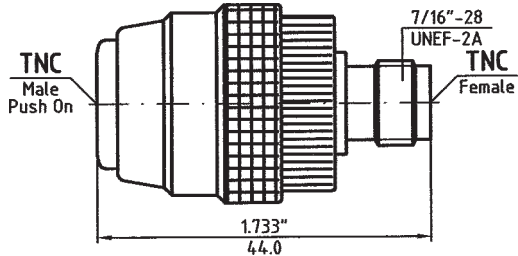
DC - 18.0 GHz
MIL-C-87104/2



Full Locking DC-18.0 GHz, MIL-C-87104/2

Adapter Part No.	8001-TS41-02
Connector Config.	TNC Push-On to TNC-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (GHz)

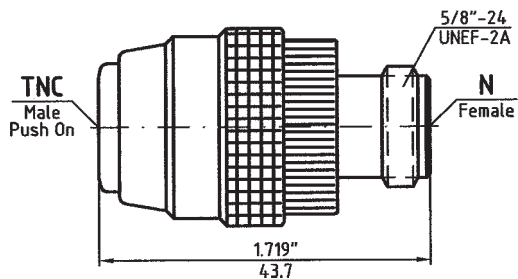
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



Full Locking DC-18.0 GHz, MIL-C-87104/2

Adapter Part No.	8001-TS61-02
Connector Config.	TNC Push-On to N-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (GHz)

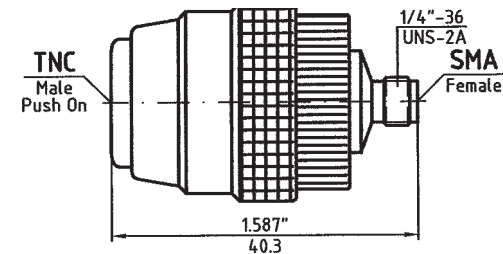
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



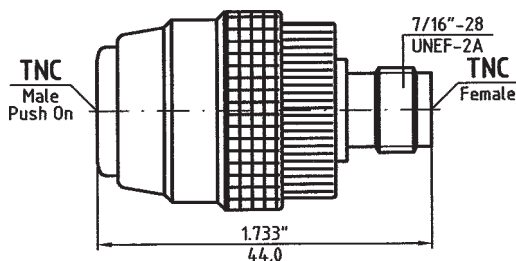
Full Locking DC-18.0 GHz, MIL-C-87104/2

Adapter Part No.	8001-TS21-02
Connector Config.	TNC Push-On to SMA-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (GHz)

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



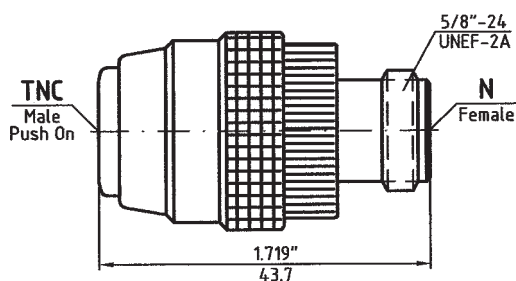
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, where applicable. For details please refer to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



DC-11.0 GHz, MIL-C-39012 **Full Locking**

Adapter Part No.	8901-TS41-02
Connector Config.	TNC Push-On to TNC-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

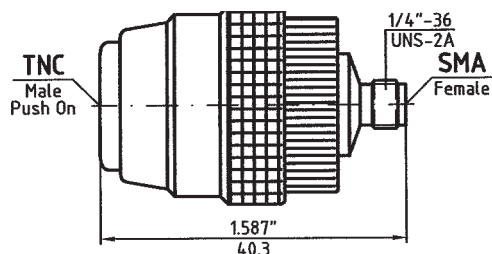
Connector outer conductor is passivated stainless steel. Center conductor is gold plated.



DC-11.0 GHz, MIL-C-39012 **Full Locking**

Adapter Part No.	8901-TS61-02
Connector Config.	TNC Push-On to N-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

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



DC-11.0 GHz, MIL-C-39012 **Full Locking**

Adapter Part No.	8901-TS21-02
Connector Config.	TNC Push-On to SMA-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

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, where applicable. For details please refer to the beginning of this section.

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TNC PUSH-ON Adapters

DC - 18.0 GHz
MIL-C-87104/2

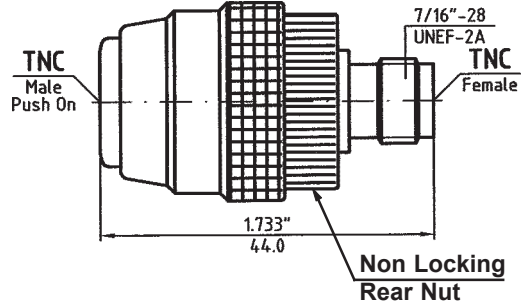


DC-18.0 GHz, MIL-C-87104/2

Locking with Non-locking Rear Nut

Adapter Part No.	8001-TL41-02
Connector Config.	TNC Push-On to TNC-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (GHz)

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

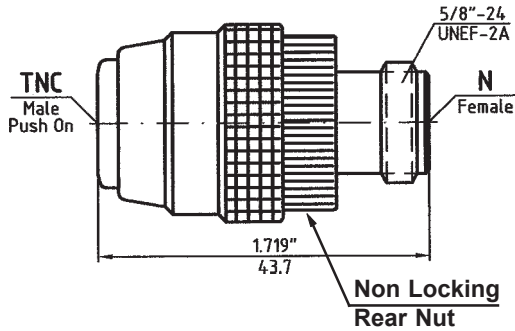


DC-18.0 GHz, MIL-C-87104/2

Locking with Non-locking Rear Nut

Adapter Part No.	8001-TL61-02
Connector Config.	TNC Push-On to N-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (GHz)

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

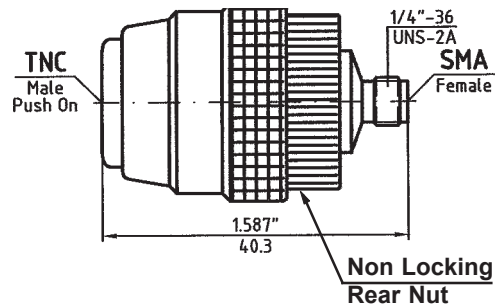


DC-18.0 GHz, MIL-C-87104/2

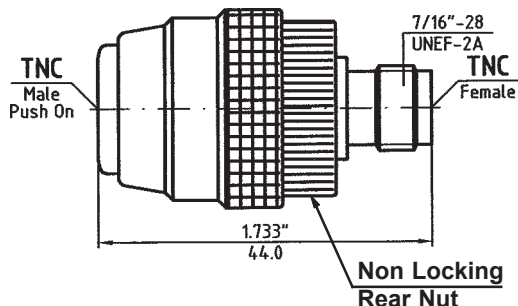
Locking with Non-locking Rear Nut

Adapter Part No.	8001-TL21-02
Connector Config.	TNC Push-On to SMA-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (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, where applicable. For details please refer to the beginning of this section.

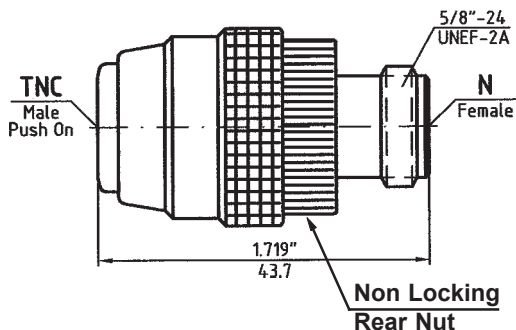


DC-11.0 GHz, MIL-C-39012

Locking with Non-locking Rear Nut

Adapter Part No.	8901-TL41-02
Connector Config.	TNC Push-On to TNC-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

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

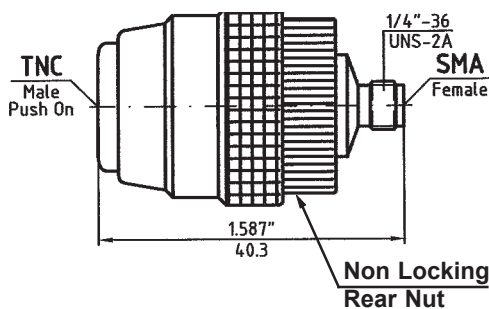


DC-11.0 GHz, MIL-C-39012

Locking with Non-locking Rear Nut

Adapter Part No.	8901-TL61-02
Connector Config.	TNC Push-On to N-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

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



DC-11.0 GHz, MIL-C-39012

Locking with Non-locking Rear Nut

Adapter Part No.	8901-TL21-02
Connector Config.	TNC Push-On to SMA-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

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

e:/quickc98/me-push.png

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, where applicable. For details please refer to the beginning of this section.

TNC PUSH-ON Adapters

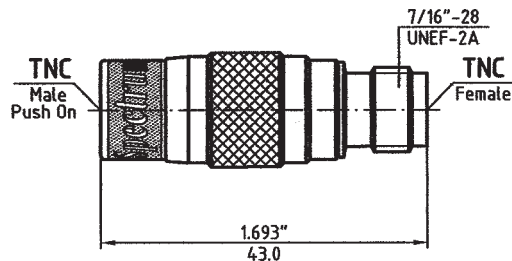
DC - 18.0 GHz
MIL-C-87104/2



NON Locking DC-18.0 GHz, MIL-C-87104/2

Adapter Part No.	8001-TN41-02
Connector Config.	TNC Push-On to TNC-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (GHz)

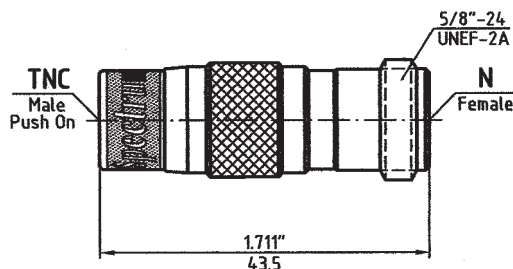
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



NON Locking DC-18.0 GHz, MIL-C-87104/2

Adapter Part No.	8001-TN61-02
Connector Config.	TNC Push-On to N-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (GHz)

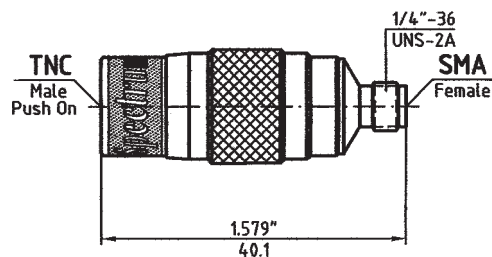
Connector outer conductor is passivated stainless steel.
Center conductor is gold plated.



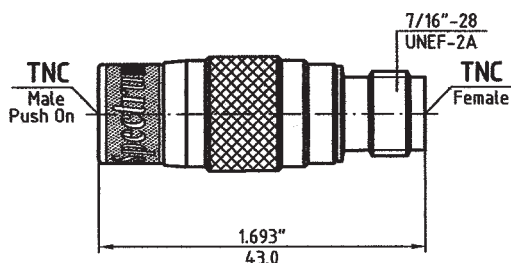
NON Locking DC-18.0 GHz, MIL-C-87104/2

Adapter Part No.	8001-TN21-02
Connector Config.	TNC Push-On to SMA-f
Frequency Range	DC to 18.0 GHz
VSWR	1.06 + 0.005 x f (GHz)

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



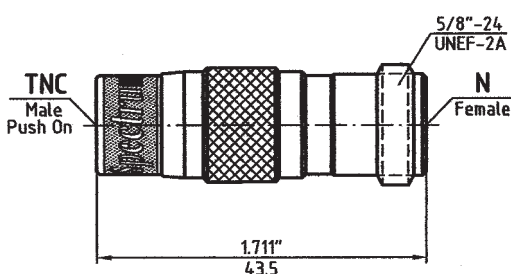
Dimensions shown are inches over millimeters. Standard units have stainless steel finish (last two digits of the P/N are -02). Interfaces are per MIL-C 39012, MIL-C-87104/2, MIL-C-3643, MIL-STD-348, IEC-169-7, IEC-457-2, DIN 47 223, DIN 47 226, DIN 47 298, where applicable. For details please refer to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



DC-11.0 GHz, MIL-C-39012 **NON Locking**

Adapter Part No.	8901-TN41-02
Connector Config.	TNC Push-On to TNC-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

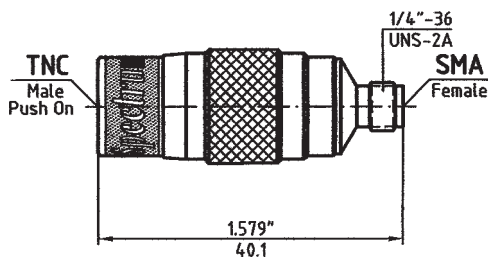
Connector outer conductor is passivated stainless steel. Center conductor is gold plated.



DC-11.0 GHz, MIL-C-39012 **NON Locking**

Adapter Part No.	8901-TN61-02
Connector Config.	TNC Push-On to N-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

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



DC-11.0 GHz, MIL-C-39012 **NON Locking**

Adapter Part No.	8901-TN21-02
Connector Config.	TNC Push-On to SMA-f
Frequency Range	DC to 11.0 GHz
VSWR	1.15 : 1

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

e:/quickc98/me-push.pmf6

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, where applicable. For details please refer to the beginning of this section.