



# N Series

## N Series

N (Navy connector) series is a medium sized precision weatherproof connector, which is supplied with a threaded coupling interface. With 50 ohms impedance, this connector can be operated up to 11GHz. Though less common, there are also precise versions of the N connectors capable of operating up to 18GHz. Both 50 and 75 ohm impedances are available, but they cannot mate each other. The N is suitable for the standard ranges of flexible & semi-rigid cables, and it is also obtained as a flange mount version. N connectors are fit for outdoor applications, where vibration resistance and environmental protection are required.

### Applications:

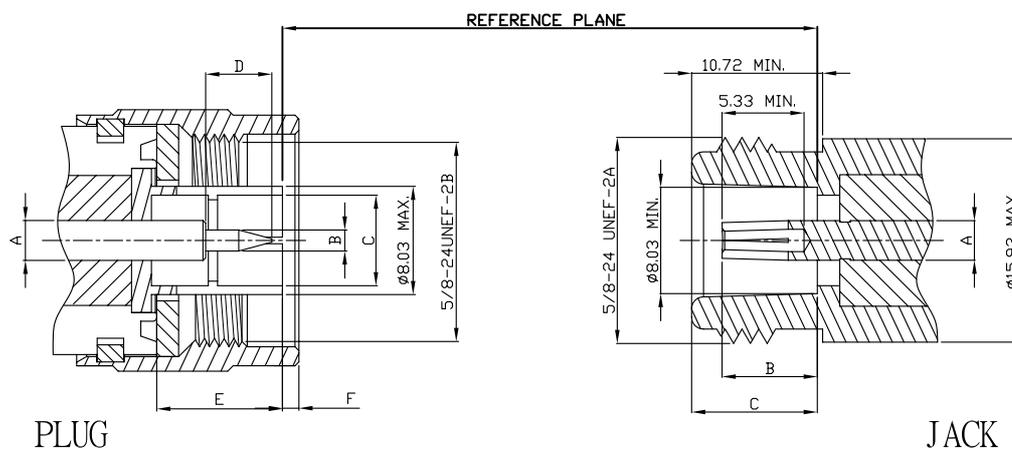
- \*antenna
- \*base stations
- \*microwave components
- \*transmitters
- \*radar
- \*receivers
- \*broadcast
- \*LANs
- \*instrumentation

### Interface dimensions conformable to the Standards:

International: IEC 169-16

USA: MIL-C-39012

N 50Ω Interface Dimensions:



N Series					
PLUG			JACK		
	Minimum	Maximum		Minimum	Maximum
A	3.04 nom			3.04 nom	
B	1.60(.063)	1.68(.066)		4.75(.187)	5.26(.207)
C	7.00 nom			9.04(.356)	9.19(.362)
D	5.33(.210)	5.84(.230)			
E	10.11(.398)	10.46(.412)			
F	0.41(.016)	1.52(.060)			

\*Millimeters(Inches)



**Materials :**

Connector part	Material	Finish
Bodies	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Brass, Phosphor Bronze, or Beryllium Copper	Gold
Insulator	Teflon	N/A
Crimp ferrule	Annealed Copper	Nickel or Gold

**Electrical :**

Electrical Data	Detail	
Impedance	50 ohm	75 ohm
Frequency range	0-11 GHz	0-6 GHz
Working voltage	500 volts rms max.	
Insulation resistance	5,000 megohms min.	
Dielectric withstanding voltage	2,500 volts rms min.	
Contact resistance	Center contact: 3.0 Milliohms max. Outer contact: 2.0 Milliohms max.	
VSWR: f(GHz)	Straight: 1.3 max. Right angle: 1.5 max.	
Insertion loss	0.3 dB max. at 10GHz	

**Mechanical :**

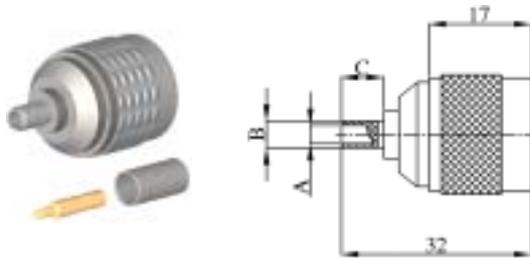
Mechanical Data	Detail
Engagement force	6 inch-pound max.
Disengagement force	6 inch-pound max.
Connector durability	500 cycles min.
Cable retention force	RG58, 141, 142, 223/U → 40 lbs min. RG174, 188, 316/U → 20 lbs min.

**Environmental :**

Environmental Data	Detail
Corrosion (Salt spray)	MIL-STD-202 METHOD 101 TEST CONDITION B
Thermal shock	MIL-STD-202 METHOD 107 TEST CONDITION B
Vibration	MIL-STD-202 METHOD 204 TEST CONDITION B
Mechanical shock	MIL-STD-202 METHOD 213 TEST CONDITION I
Temperature range	-65 to 165

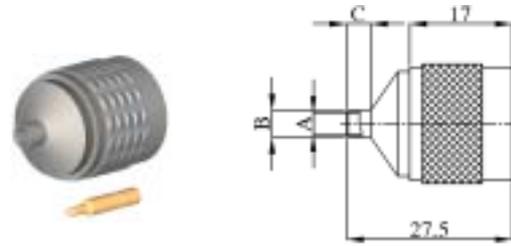
## N STRAIGHT PLUG FOR CABLE TYPE

### CRIMP FOR FLEXIBLE CABLE



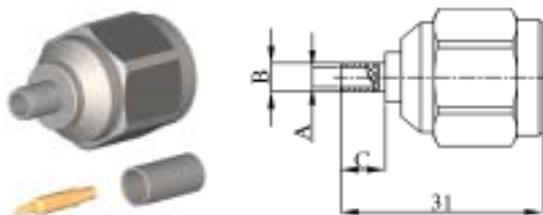
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-03B-TGN	9.1	9.5	7.3	8A/U,213/U
N-03C-TGN	9.1	9.5	7.3	9B/U,214/U
N-03F-TGN	3.2	4.5	7.0	58/U,58C/U
N-03G-TGN	3.8	5.5	7.5	89/U,59A/U

### SOLDER FOR SEMI-RIGID CABLE



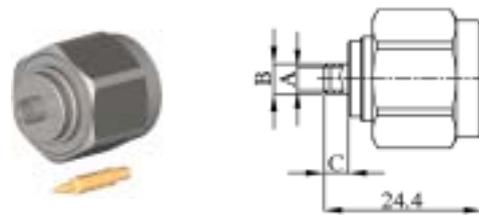
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-03V1-TGN	2.3	3.0	3.4	RG405U(.085")
N-03V2-TGN	3.7	4.5	3.4	RG402U(.141")
N-03V4-TGN	6.4	8.6	3.4	RG401(.250")

### CRIMP FOR FLEXIBLE CABLE HEXGW SHELL



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-03BV1-TGN	9.1	9.5	7.3	8A/U,213/U
N-03C-V1TGN	9.1	9.5	7.3	9B/U,214/U
N-03FV1-TGN	3.2	4.5	7.0	58/U,58C/U
N-03GV1-TGN	3.8	5.5	7.5	89/U,59A/U

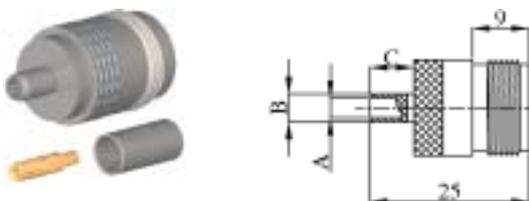
### SOLDER FOR FLEXIBLE CABLE HEXGW SHELL



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-03V1A-TGN	2.3	3.0	3.4	RG405U(.085")
N-03V2A-TGN	3.7	4.5	3.4	RG402U(.141")
N-03V4A-TGN	6.4	8.6	3.4	RG401(.250")

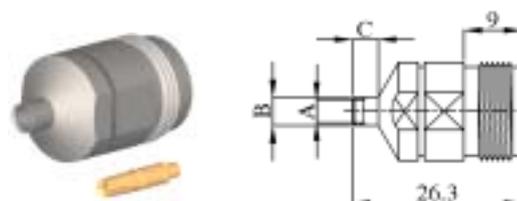
## N STRAIGHT JACK FOR CABLE TYPE

### CRIMP FOR FLEXIBLE CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-04B-TGN	9.1	9.5	7.3	8A/U,213/U
N-04C-TGN	9.1	9.5	7.3	9B/U,214/U
N-04F-TGN	3.2	4.5	7.0	58/U,58C/U
N-04G-TGN	3.8	5.5	7.5	59/U,59A/U

### SOLDER FOR SEMI-RIGID CABLE

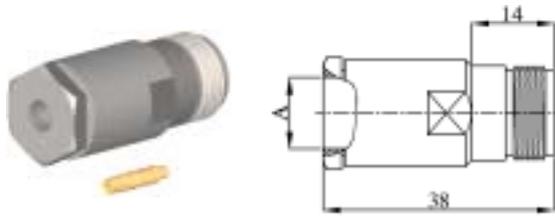


PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-04V1-TGN	2.3	3.0	3.4	RG405U(.085")
N-04V2-TGN	3.7	4.5	3.4	RG402U(.141")
N-04V4-TGN	6.4	8.6	3.4	RG401(.250")



### N STRAIGHT JACK FOR CABLE TYPE

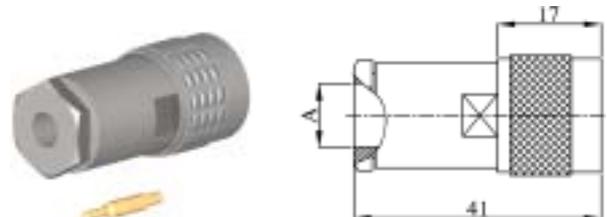
CLAMP FOR FLEXIBLE CABLE



PART NUMBER	A	CABLE TYPE(RG/U)
N-02B-TGN	10.7	8A/U,213/U
N-02C-TGN	10.9	9B/U,214/U
N-02F-TGN	5.3	58/U,58C/U
N-02G-TGN	6.5	59/U,59A/U
N-02LV1-TGN	3.0	174U,188A,316U

### N STRAIGHT PLUG FOR CABLE TYPE

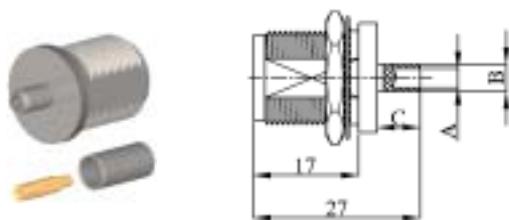
CLAMP FOR FLEXIBLE CABLE



PART NUMBER	A	CABLE TYPE(RG/U)
N-01B-TGN	10.7	8A/U,213/U
N-01C-TGN	10.9	9B/U,214/U
N-01F-TGN	5.3	58/U,58C/U
N-01G-TGN	6.5	59/U,59A/U
N-01LV1-TGN	3.0	174U,188A,316U

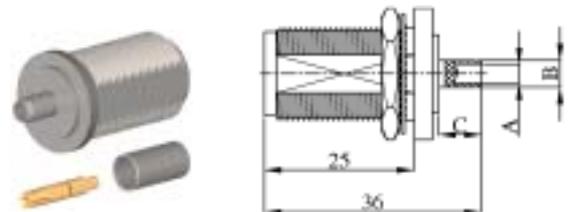
### N STRAIGHT JACK BULKHEAD FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



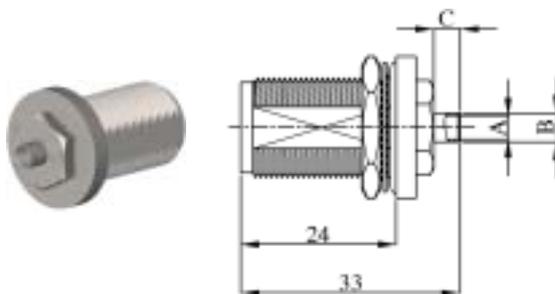
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-32B-TGN	9.1	9.5	7.3	8A/U,213/U
N-32C-TGN	9.1	9.5	7.3	9B/U,214/U
N-32F-TGN	3.2	4.5	7.0	58/U,58C/U
N-32G-TGN	3.8	5.5	7.5	89/U,59A/U

CRIMP FOR FLEXIBLE CABLE



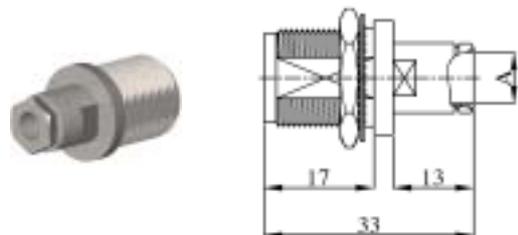
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-32BV1-TGN	9.1	9.5	7.3	8A/U,213/U
N-32CV1-TGN	9.1	9.5	7.3	9B/U,214/U
N-32FV1-TGN	3.2	4.5	7.0	58/U,58C/U
N-32GV1-TGN	3.8	5.5	7.5	59/U,59A/U
N-32LV1-TGN	2.3	3.0	3.4	174U,188A,316U

SOLDER FOR SEMI-RIGID CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-32V1-TGN	2.3	3.0	3.4	RG405U(.085")
N-32V2-TGN	3.7	4.5	3.4	RG402U(.141")
N-32V4-TGN	6.4	8.6	3.4	RG401(.250")

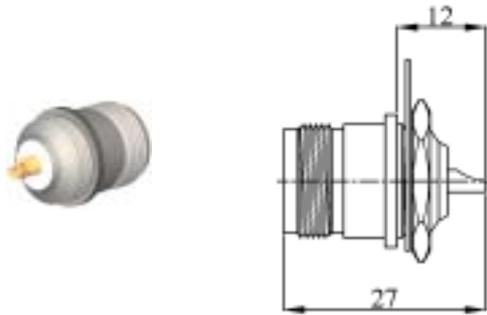
CLAMP FOR FLEXIBLE CABLE



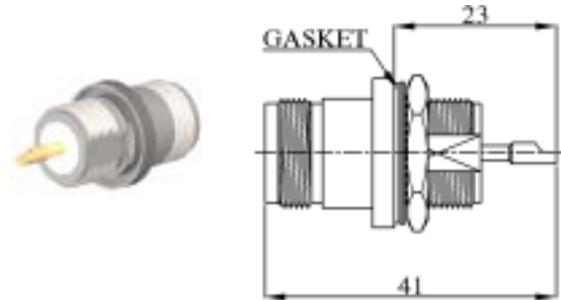
PART NUMBER	A	CABLE TYPE(RG/U)
N-19B-TGN	10.7	8A/U,213/U
N-19C-TGN	10.9	9B/U,214/U
N-19F-TGN	5.3	58/U,58C/U
N-19G-TGN	6.5	59/U,59A/U

TGN : TEFLON INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY  
 TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY

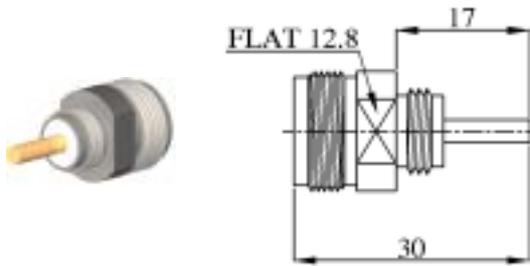
## N STRAIGHT JACK BULKHEAD FOR RECEPTACLE



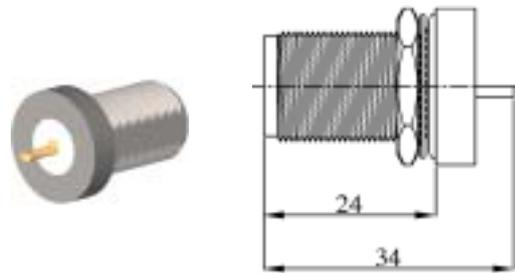
PART NUMBER | N-05-TGN



PART NUMBER | N-05V4-TGN



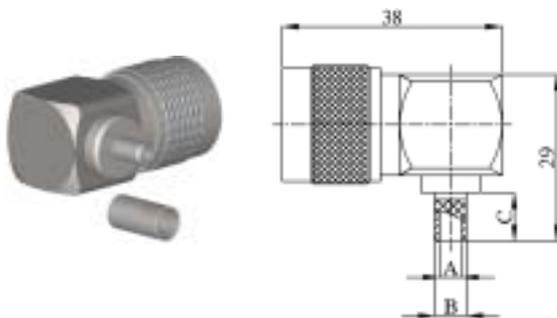
PART NUMBER | N-23-TGN



PART NUMBER | N-32V5-TGN

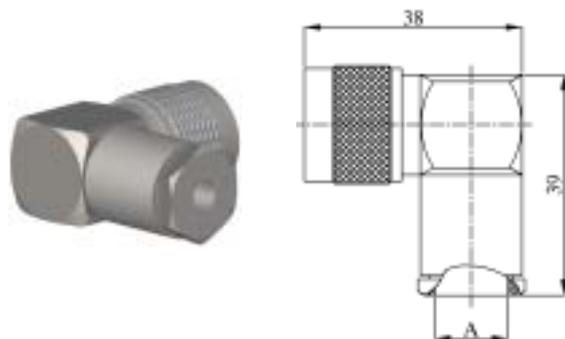
## N RIGHT ANGLE PLUG FOR CABLE TYPE

### CRIMP FOR FLEXIBLE CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-35B-TGN	9.1	9.5	7.3	8A/U,213/U
N-35C-TGN	9.1	9.5	7.3	9B/U,214/U
N-35F-TGN	3.2	4.5	7.0	58/U,58C/U
N-35G-TGN	3.8	5.5	7.5	89/U,59A/U

### CLAMP FOR FLEXIBLE CABLE

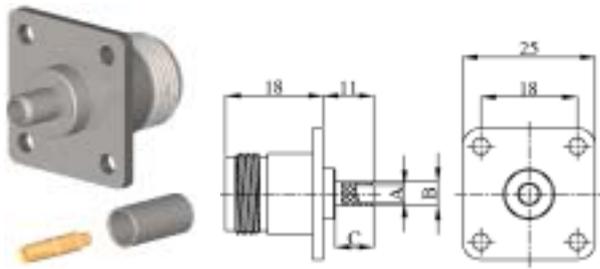


PART NUMBER	A	CABLE TYPE(RG/U)
N-36B-TGN	10.7	8A/U,213/U
N-36C-TGN	10.9	9B/U,214/U
N-36F-TGN	5.3	58/U,58C/U
N-36G-TGN	6.5	59/U,59A/U



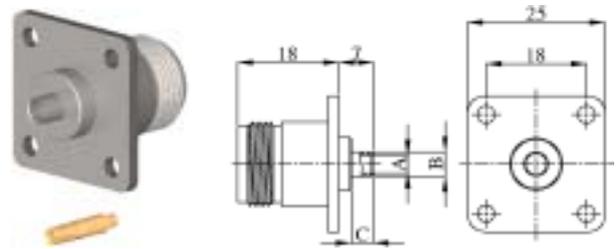
## N STRAIGHT JACK PANEL FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-06B-TGN	7.4	9.5	7.3	8A/U, 213/U
N-06C-TGN	7.4	9.5	7.3	9B/U, 214/U
N-06F-TGN	3.2	2.7	5.0	58/U, 58C/U
N-06G-TGN	3.9	5.5	7.5	59/U, 59A/U

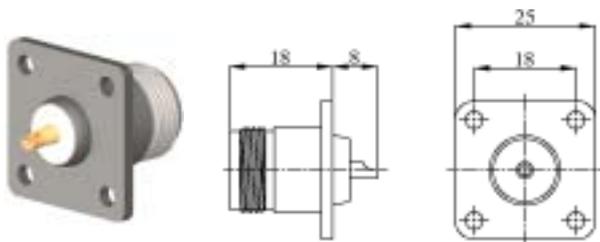
SOLDER FOR SEMI-RIGID CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
N-06V1-TGN	2.3	3.0	3.4	RG405 (.085)
N-06V2-TGN	3.7	4.5	3.4	RG402 (.141)
N-06V3-TGN	6.4	8.6	3.4	RG401 (.250)

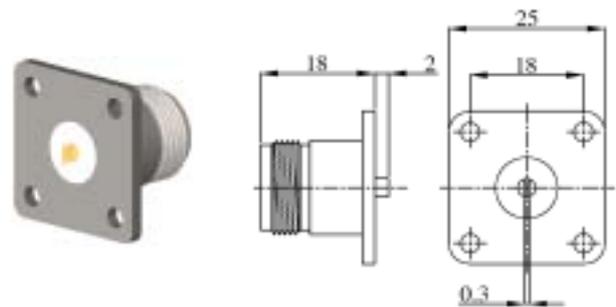
## N STRAIGHT JACK 4 HOLES FLANGE MOUNT RECEPTACLE

EXTENDED TEFLON+ SOLDER POT CONTACT



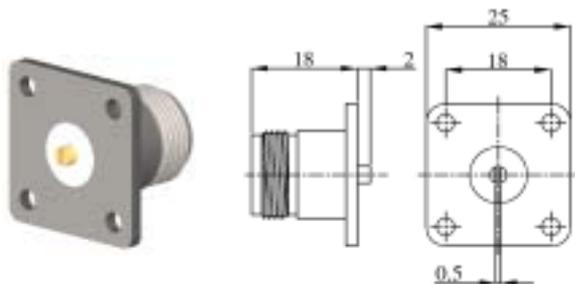
PART NUMBER	N-06-TGN
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FLUSH TEFLON+ TAB CONTACT



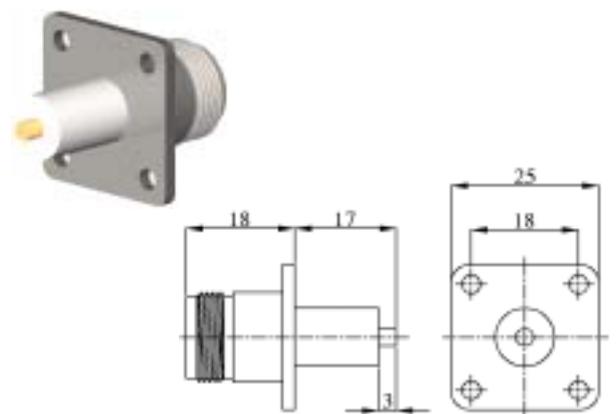
PART NUMBER	N-06V4-TGN
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FLUSH TEFLON+ SLOTTED CONTACT



PART NUMBER	N-06V5-TGN
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EXTENDED TEFLON+ BLUNT POST CONTACT

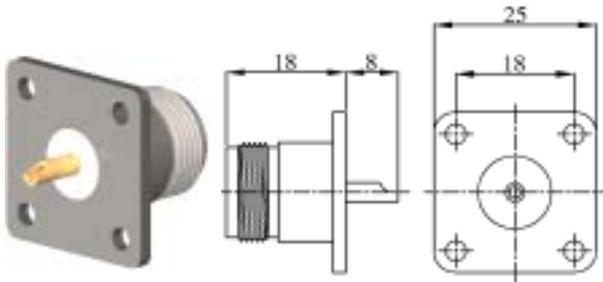


PART NUMBER	N-06V6-TGN
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TGN : TEFLON INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY  
 TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY

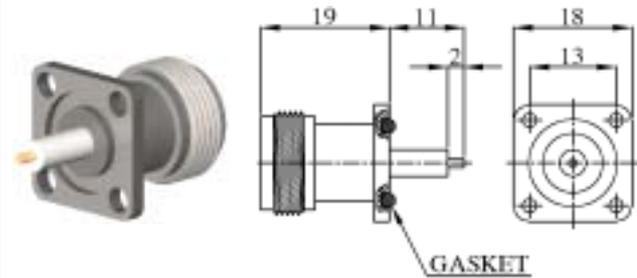
## N STRAIGHT JACK 4 HOLES FLANGE MOUNT RECEPTACLE

FLUSH TEFLON+ SOLDER POT CONTACT



PART NUMBER | N-06V7-TGN

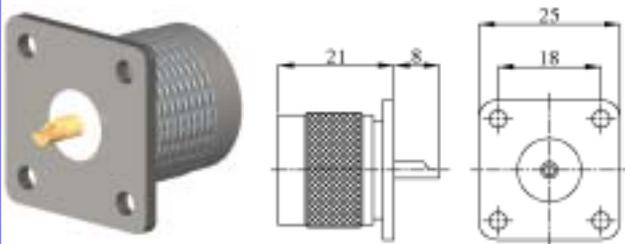
EXTENDED TEFLON+ BLUNT POST CONTACT



PART NUMBER | N-22-TGN

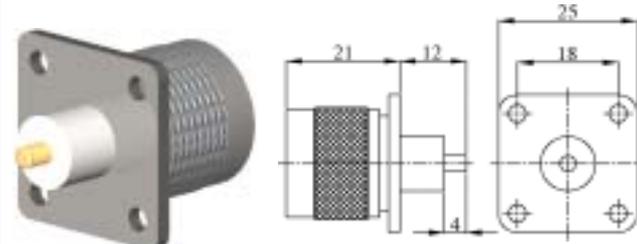
## N STRAIGHT PLUG 4 HOLES FLANGE MOUNT RECEPTACLE

FLUSH TEFLON+ SOLDER POT CONTACT



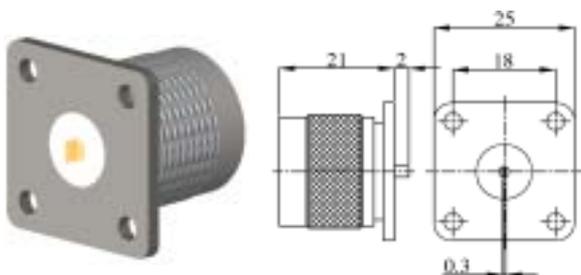
PART NUMBER | N-20-TGN

EXTENDED TEFLON+ BLUNT POST CONTACT



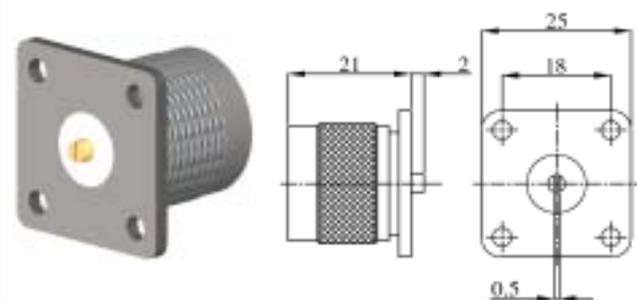
PART NUMBER | N-20V4-TGN

FLUSH TEFLON+ TAB CONTACT



PART NUMBER | N-20V5-TGN

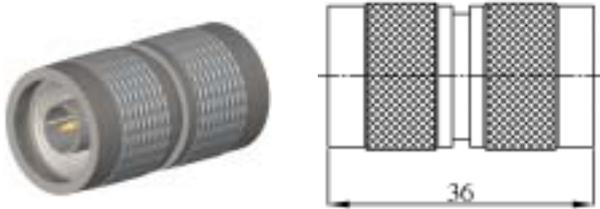
FLUSH TEFLON+ SLOTTED CONTACT



PART NUMBER | N-20V6-TGN

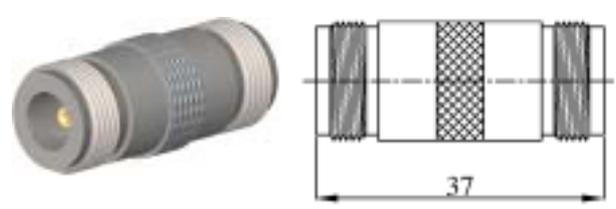


### N PLUG-PLUG ADAPTOR



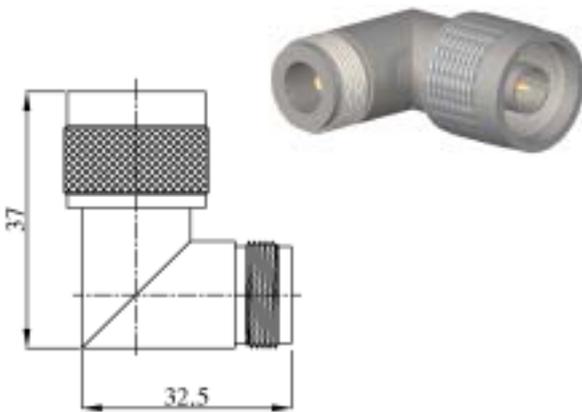
PART NUMBER | N-07-TGN

### N JACK-JACK ADAPTOR



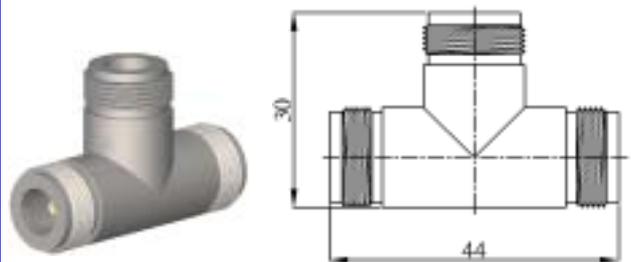
PART NUMBER | N-08-TGN

### N RIGHT ANGLE JACK-PLUG ADAPTOR



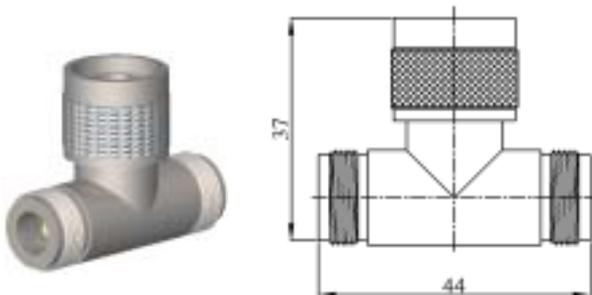
PART NUMBER | N-11-TGN

### N JACK-JACK-JACK ADAPTOR



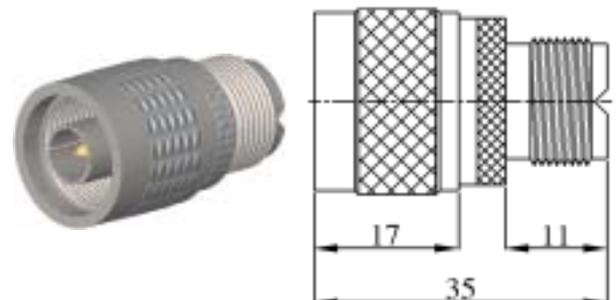
PART NUMBER | N-09-TGN

### N JACK-PLUG-JACK ADAPTOR



PART NUMBER | N-10-TGN

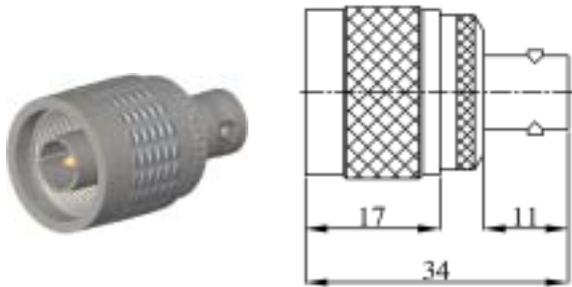
### N PLUG-UHF JACK ADAPTOR



PART NUMBER | N-12-TGN

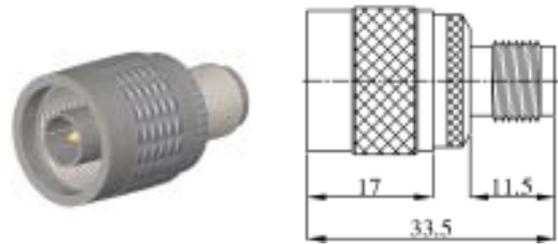
TGN : TEFLON INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY  
 TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY

### N PLUG-BNC JACK ADAPTOR



PART NUMBER | N-13-TGN

### N PLUG-TNC JACK ADAPTOR



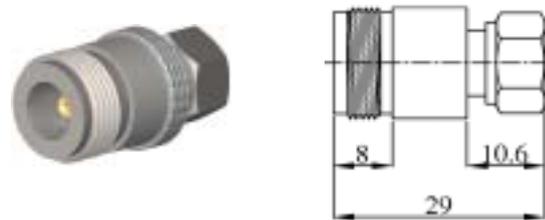
PART NUMBER | N-14-TGN

### N PLUG-BNC PLUG ADAPTOR



PART NUMBER | N-25-TGN

### N JACK-F PLUG ADAPTOR



PART NUMBER | N-16-TGN

### N JACK-BNC JACK ADAPTOR



PART NUMBER | N-21-TGN