



TNC Series

TNC

TNC (Thread Navy Connector) series is similar to the BNC, but supplied with a threaded coupling interface because of the noise generated by BNC connectors under high vibration. With 50 ohms impedance, this connector can be operated up to 11GHz. Both 50 and 75 ohm impedances are available, and can mate together without any restriction. The TNC is suitable for the standard ranges of flexible & semi-rigid cables, and it is also obtained as a flange or PCB mounted version. TNCs are a low-cost high-frequency solution for coaxial connections.

Applications:

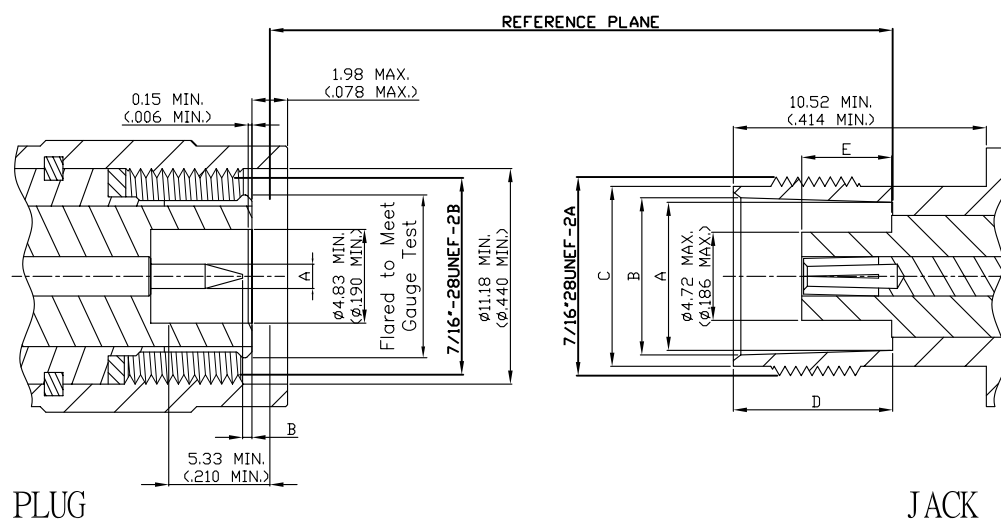
- *radar
- *aircraft & missile
- *base stations
- *cellular mobile phones
- *LANs
- *test instrumentation
- *microwave components

Interface dimensions conformable to the Standards:

International: IEC 169-17

USA: MIL-C-39012

TNC 50Ω Interface Dimensions:



TNC Series					
PLUG			JACK		
	Minimum	Maximum		Minimum	Maximum
A	1.32<math>(0.052)	9.91<math>(0.390)		8.10<math>(0.321)	8.15<math>(0.391)
B	9.78<math>(0.385)	9.91<math>(0.390)		8.31<math>(0.327)	8.46<math>(0.333)
C	5.28<math>(0.208)	5.79<math>(0.228)		9.60<math>(0.378)	9.68<math>(0.381)
				10.97<math>(0.432)	11.07<math>(0.436)
				4.78<math>(0.188)	5.23<math>(0.206)

*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	Delrin or Teflon	N/A
Crimp ferrule	Annealed Copper	Nickel or Gold

Electrical :

Electrical Data	Detail	
Impedance	50 ohm	75 ohm
Frequency range	0-11 GHz	0-2 GHz
Working voltage	500 volts rms max.	
Insulation resistance	5,000 megohms min.	
Dielectric withstanding voltage	1,500 volts rms min.	
Contact resistance	Center contact: 1.5 Milliohms Outer contact: 1.0 Milliohms	
VSWR: f (GHz)	Straight: 1.3 max. Right angle: 1.5 max.	
Insertion loss	0.2 dB max. at 3GHz	

Mechanical :

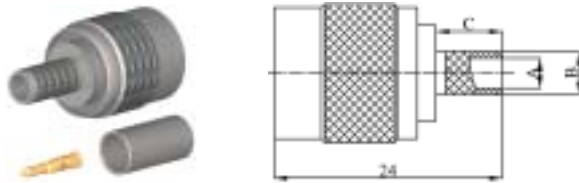
Mechanical Data	Detail
Engagement force	2.5 inch-pound max.
Disengagement force	3 lbs max. Axial force
Connector durability	500 cycles min.
Cable retention force	RG58, 141, 142, 223/U → 40 lbs min. RG174, 188, 316/U → 20 lbs min.

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 (Teflon)

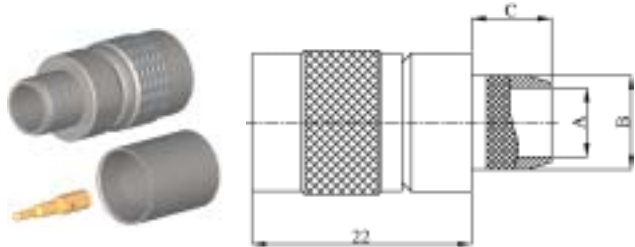
TNC STRAIGHT PLUG FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



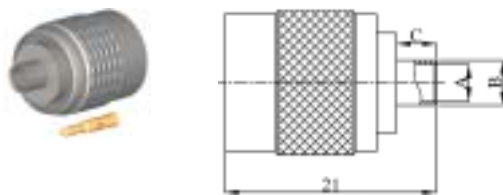
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-05LV1-TGN	1.7	2.6	5.0	174,188A,316
TNC-05F-DGN	3.2	4.5	7.0	58,58A,58C,141A
TNC-05G-DGN	3.8	5.5	7.5	59,59A,59U,62A,210

CRIMP FOR FLEXIBLE CABLE



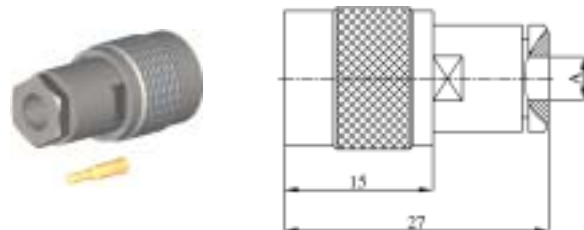
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-05B-TGN	9.1	9.5	7.3	8A,213
TNC-05C-TGN	9.1	9.5	7.3	9B,214

SOLDER FOR SEMI-RIGID CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-05V1-TGN	2.3	3.0	3.0	RG405U(.085")
TNC-05V2-TGN	3.7	4.5	3.0	RG402U(.141")

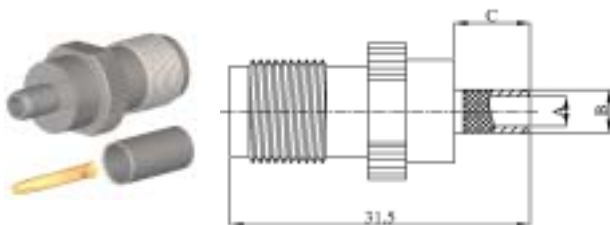
CLAMP FOR FLEXIBLE CABLE



PART NUMBER	A	CABLE TYPE(RG/U)
TNC-01F-DGN	5.3	58,58A,58C,141A
TNC-01G-DGN	6.5	59,59A,59U,62A,210
TNC-01B-TGN	10.7	8A,213

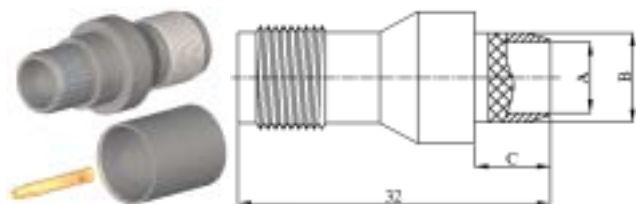
TNC STRAIGHT JACK FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-08FV1-DGN	3.2	4.5	7.0	58,58A,58C,141A
TNC-08GV1-DGN	3.8	5.5	7.5	59,59A,59U,62A,210

CRIMP FOR FLEXIBLE CABLE



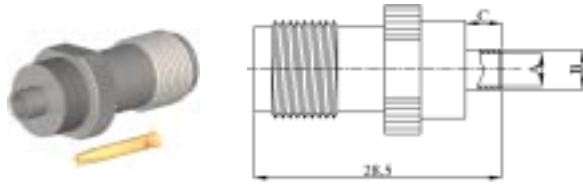
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TNC-08BV1-TGN	9.1	9.5	7.3	8A,213
TNC-08CV1-TGN	9.1	9.5	7.3	9B,214

TGN : IEFLOX INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY
 TGG : IEFLOX INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY
 DGN : DELRIN INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY

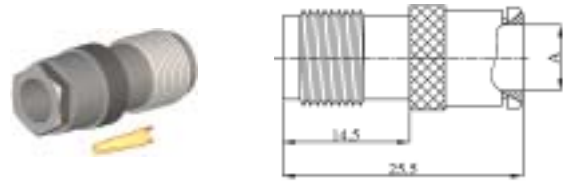


TNC STRAIGHT JACK FOR CABLE TYPE

SOLDER FOR SEMI-RIGID CABLE



CLAMP FOR FLEXIBLE TYPE

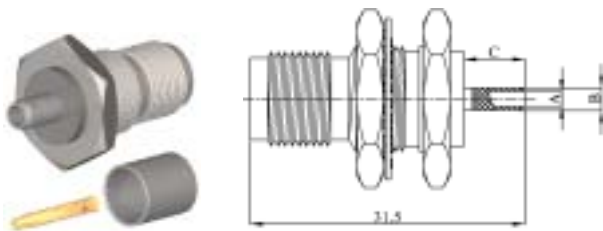


PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-08V1-TGN	2.3	3	3	RG405U(.085")
TNC-08V2-TGN	3.7	4.5	3	RG402U(.141")

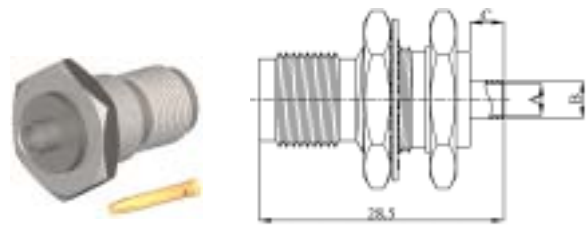
PART NUMBER	A	CABLE TYPE(RG/U)
TNC-02LV1-TGN	5.3	174,188A,316
TNC-02F-DGN	6.5	58,58A,58C,141A
TNC-02G-DGN	10.7	59U

TNC STRAIGHT JACK BULKHEAD FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



SOLDER FOR SEMI-RIGID CABLE

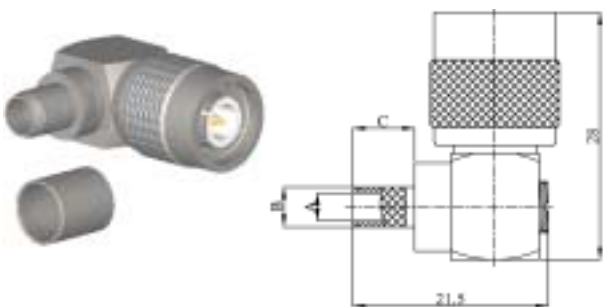


PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-07LV1-TGN	1.7	2.6	7	174,188A,316
TNC-07F-DGN	3.2	4.5	7	58,58A,58C,141A
TNC-07G-DGN	3.8	5.5	7.5	59U

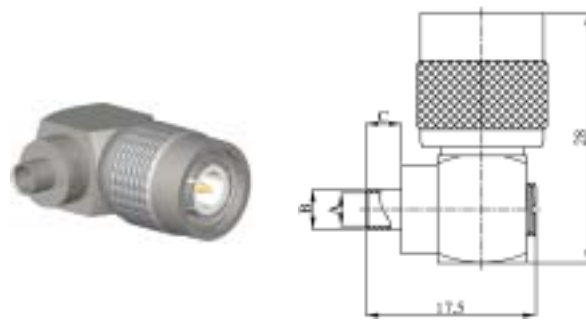
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-07V1-TGN	2.3	3	3	RG405U(.085")
TNC-07V2-TGN	3.7	4.5	3	RG402U(.141")

TNC RIGHT ANGLE PLUG FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



SOLDER FOR SEMI-RIGID CABLE

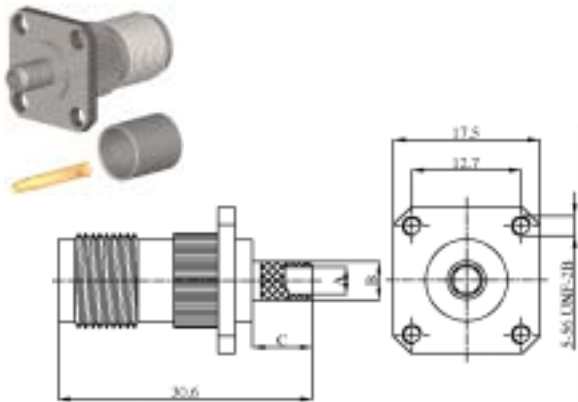


PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-04LV1-TGN	1.7	2.6	7	174,188A,316
TNC-04FV1-DGN	3.2	4.5	7	58,58A,58C,141A
TNC-04GV1-DGN	3.8	5.5	7.5	59U

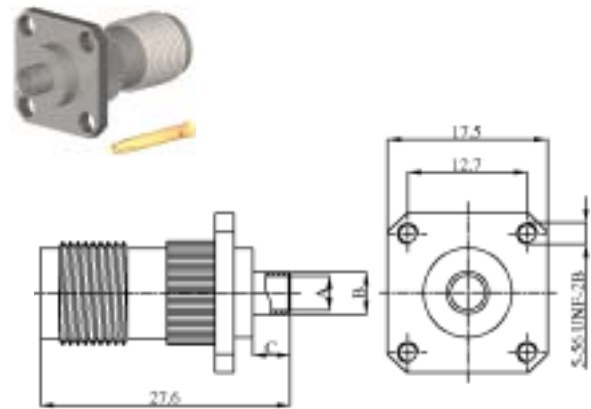
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-04V1-TGN	2.3	3	3	RG405U(.085")
TNC-04V2-TGN	3.7	4.5	3	RG402U(.141")

TGN : IEFロン INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY
 TGG : IEFロン INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY
 DGN : DELRIN INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY

TNC STRAIGHT JACK 4 HOLES FLANGE MOUNT FOR CABLE TPE

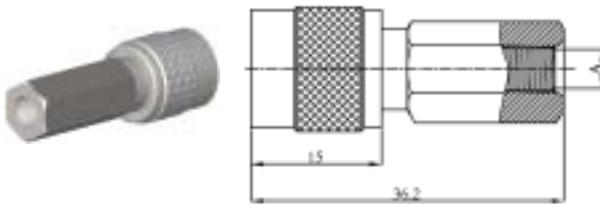


PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-23LV1-TGN	1.7	2.6	5	174,188A,316
TNC-23F-DGN	3.2	4.5	7	58,58A,58C,141A
TNC-23G-DGN	3.8	5.5	7.5	59U



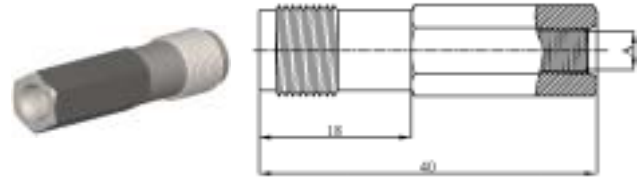
PART NUMBER	A	B	C	CABLE TYPE(RG/U)
TNC-23V1-TGN	2.3	3	3	RG405U(.085")
TNC-23V2-TGN	3.7	4.5	3	RG402U(.141")

TNC PLUG TWIST ON



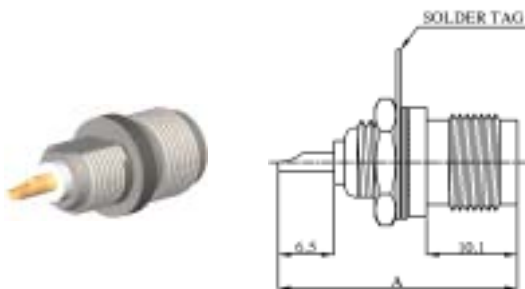
PART NUMBER	A	CABLE TYPE(RG/U)
TNC-09F-DGN	5.3	58,58A,58C,141A
TNC-09G-DGN	6.5	59U

TNC JACK TWIST ON



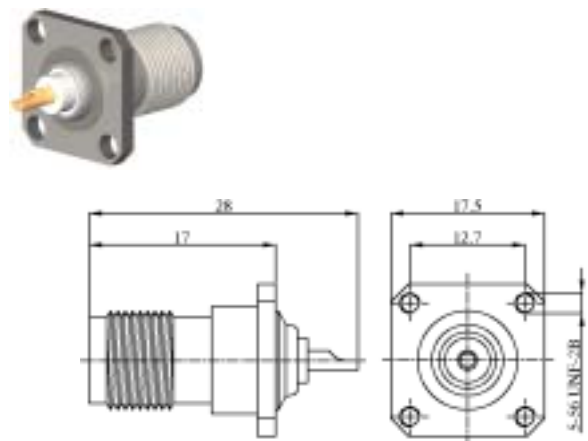
PART NUMBER	A	CABLE TYPE(RG/U)
TNC-10F-DGN	5.3	58,58A,58C,141A
TNC-10G-DGN	6.5	59U

TNC STRAIGHT JACK BULKHEAD RECEPTACLE



PART NUMBER	TNC-11-DGN
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TNC JACK 4 HOLES FLANGE MOUNT RECEPTACLE

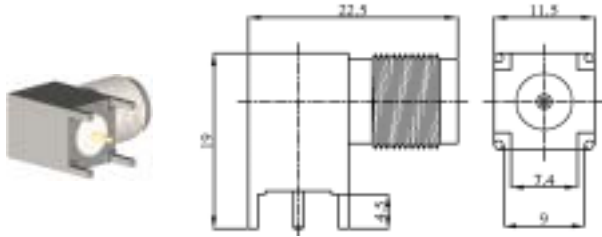


PART NUMBER	TNC-03-DGN
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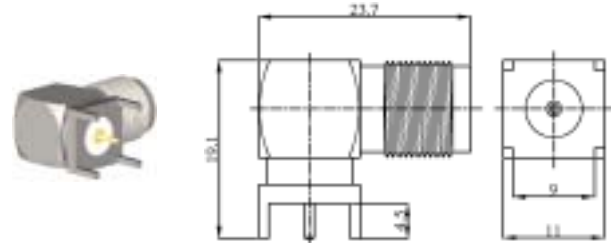
TNC RIGHT ANGLE JACK PCB RECEPTACLE

DIE-CAST BODY



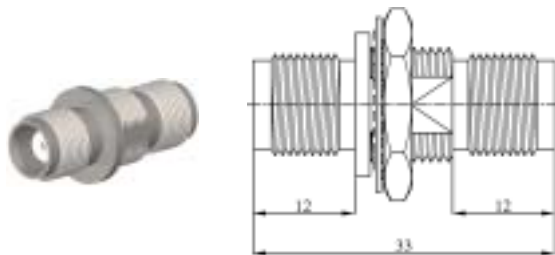
PART NUMBER	TNC-21-TGN
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BRASS BODY



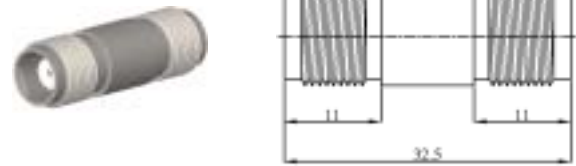
PART NUMBER	TNC-21V4-TGN
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TNC BULKHEAD JACK-JACK ADAPTOR



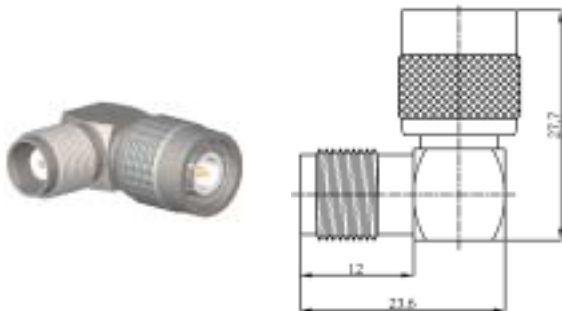
PART NUMBER	TNC-13-DGN
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TNC STRAIGHT JACK-JACK ADAPTOR



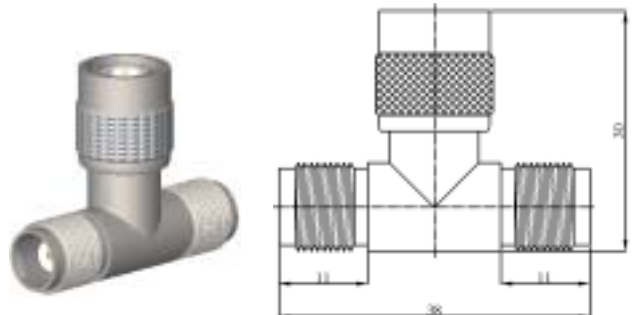
PART NUMBER	TNC-12-DGN
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TNC RIGHT ANGLE JACK-PLUG ADAPTOR



PART NUMBER	TNC-22-TGN
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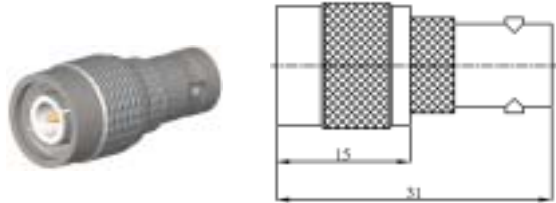
TNC JACK-PLUG-JACK ADAPTOR



PART NUMBER	TNC-16-DGN
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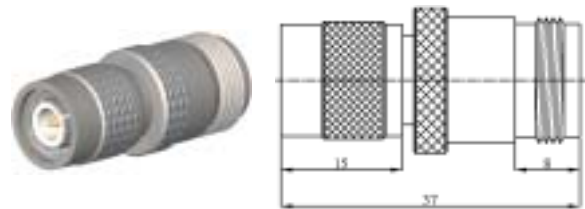
TGN : IEFロン INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY
 TGG : IEFロン INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY
 DGN : DELRIN INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY

TNC PLUG-BNC JACK ADAPTOR



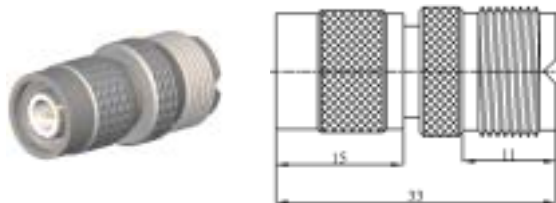
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TNC PLUG-N JACKADAPTOR



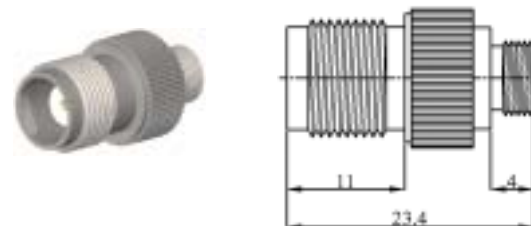
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TNC PLUG-UHF JACK ADAPTOR



PART NUMBER	TNC-17-DGN
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TNC JACK-NEC PLUG ADAPTOR



PART NUMBER	TNC-24-DGN
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