

**N Connectors**

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Prices, specifications, statement of warranty, and other terms and conditions are subject to change without notice by Lighthouse Technologies, Inc.



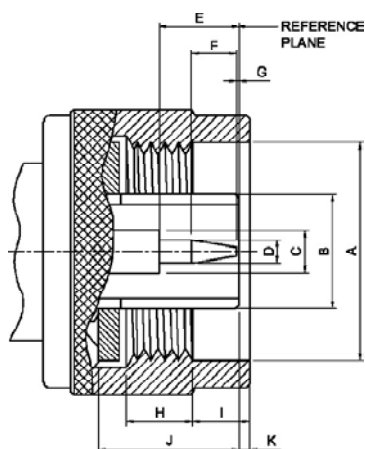
N series RF connectors are 50 ohm constant impedance connectors with a consistently low VSWR across its frequency range of 0 to 11GHz. They are high quality medium size connectors standardly used with coaxial cables from .350" to .450" OD, but designs can also accomodate .078" to .875" cables. N connectors are threaded and gasketed for weatherproof operation. The threaded coupling incurs low noise and withstands shock and vibration. LTI N connectors are designed to conform to MIL-C-39012 specifications.

Lighthorse Technologies offers a few styles of 75 ohm impedance versions of N connectors. They are not matable with the 50 ohm connectors.

The N connector is the most popular medium size connector. Applications include test and measurement, antennae, base stations, transmitters, etc.

Interface Mating Dimensions

PLUG



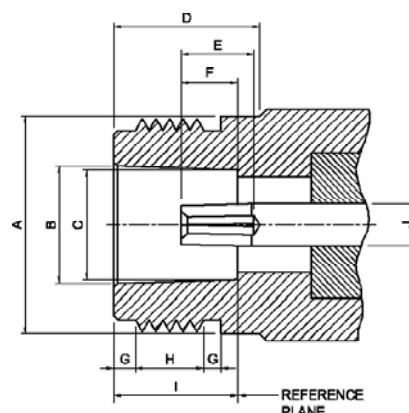
Letter	Minimum	Maximum
A	16.00	-
B	-	8.38
C	3.00	3.15
D	1.60	1.68
E	5.33	5.84
F	3.30	4.32
G	0.08	-
H	4.50	5.00
I	4.01	4.27
J	10.11	10.46
K	0.41	1.52

DIMENSIONS ARE IN MILLIMETERS

JACK

Letter	Minimum	Maximum
A	-	15.93
B	8.53	8.74
C	8.03	8.13
D	10.72	-
E	5.33	-
F	4.75	5.26
G	1.19	1.96
H	4.37	5.13
I	9.04	9.19
J	3.00	3.15

DIMENSIONS ARE IN MILLIMETERS





ELECTRICAL RATINGS

Impedance	50 ohm	75 ohm
Frequency Range	0-11 GHz	0-1.5 GHz
VSWR	1.3 max @ 11 GHz	
Voltage Rating (in VRMS at sea level)	1000 max	
Dielectric Withstanding Voltage (in VRMS at sea level)	2500 min	
Insertion Loss	.15 dB max @ 10 GHz	
Insulation Resistance	5000 M Ω min	
Contact Resistance	<i>Center Contact</i>	<i>Outer Contact</i>
	1.0 m Ω max	1.0 m Ω max

MECHANICAL RATINGS

Mating	5/8-24UNEF threaded coupling	
Durability	500 matings max	
Recommended Coupling Nut Torque	6 to 10 in-lbs	
Coupling Proof Torque	15 in-lbs	
Coupling Nut Retention Force	101.2 lbs max	
Contact Captivation	15.3 lbs max	
Cable Retention	RG-174,188,316	20 lbs min
	RG-58,141,142,223,400	40 lbs min
	RG-59,62,210	40 lbs min
	RG-8,11,213,214	80 lbs min

ENVIRONMENTAL RATINGS

Temperature Range	-65°C to + 165°C
Thermal Shock	MIL-STD-202, Method 1017G, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Mechanical Shock	MIL-STD-202, Method 213, Condition A

MATERIALS

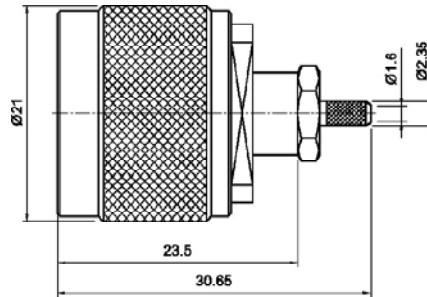
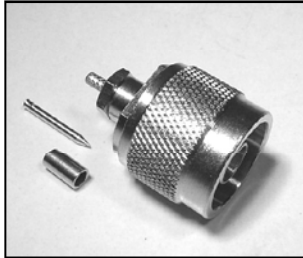
	<i>Material</i>	<i>Plating</i>
Connector Body	Brass per QQ-B-626	Nickel
Center Contact	Brass per QQ-B-626	Gold
	Beryllium Copper per QQ-C-530	Gold
Insulator	Teflon, Delrin, Polypropylene	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper per WW-T-799	Same as body



Straight Crimp Plug

Part Number	Cable Type
LTI-NSM11NT-XXX	RG-316,174,188;Q1,D316
LTI-7NSM11NT-179	RG-179 (75 ohm)

TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

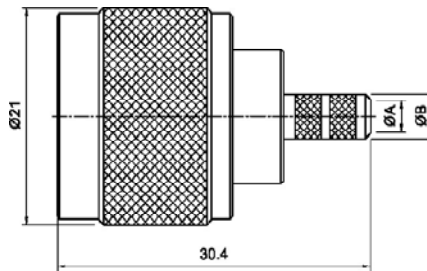


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Recommended Stripping DIMS:
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Straight Crimp Plug

Part Number	Cable Type	Dimension	
LTI-NSM11NT-XXX	RG-58,141,142,223,400	A: 3.1	B: 4.4
LTI-7NSM11NT-59	RG-59 (75 ohm)	A: 3.9	B: 5.6

TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

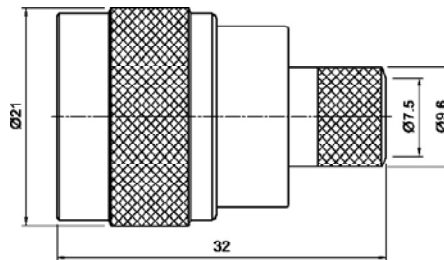


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Straight Crimp Plug

Part Number	Cable Type
LTI-NSM11NT-XXX	RG-8,213,214; Q
LTI-7NSM11NT-11	RG-11 (75 ohm)

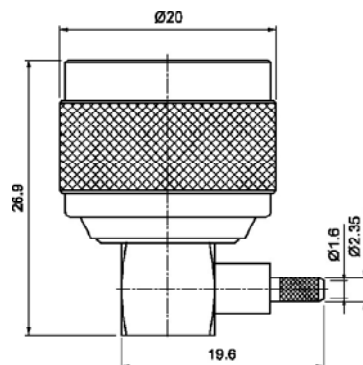
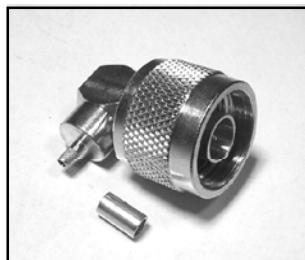
TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.



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Recommended Stripping DIMS:
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Right Angle Crimp Plug

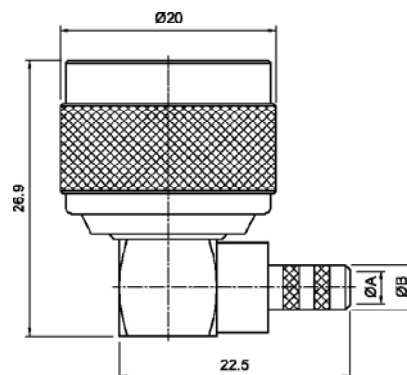
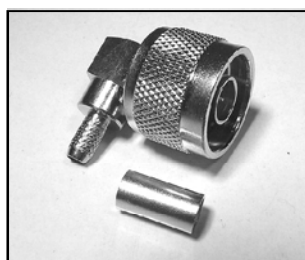


Part Number	Cable Type
LTI-NLM11NT-XXX	RG-316,174,188;Q1,D316
LTI-7NLM11NT-179	RG-179 (75 ohm)

TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

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Right Angle Crimp Plug

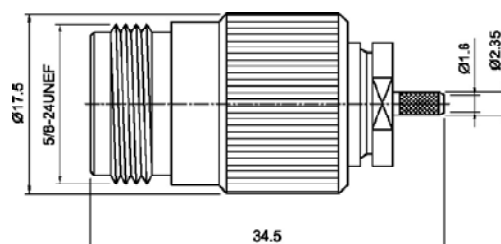
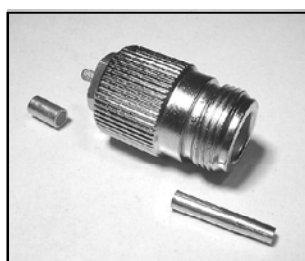


Part Number	Cable Type	Dimension
LTI-NLM11NT-XXX	RG-58,141,142,223,400	A: 3.1 B: 4.4
LTI-7NLM11NT-59	RG-59 (75 ohm)	A: 3.9 B: 5.6

TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

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Straight Crimp Jack



Part Number	Cable Type
LTI-NSF11NT-XXX	RG-316,174,188;Q1,D316
LTI-7NSF11NT-179	RG-179 (75 ohm)

TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

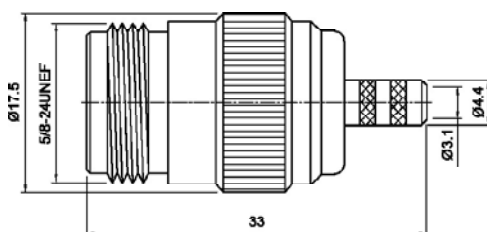
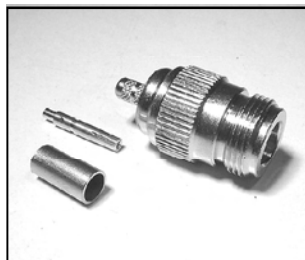
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Recommended Stripping DIMS:
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Straight Crimp Jack

Part Number	Cable Type	Dimension	
LTI-NSF11NT-XXX	RG-58,141,142,223,400	A: 3.1	B: 4.4
LTI-7NSF11NT-59	RG-59 (75 ohm)	A: 3.9	B: 5.6

TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

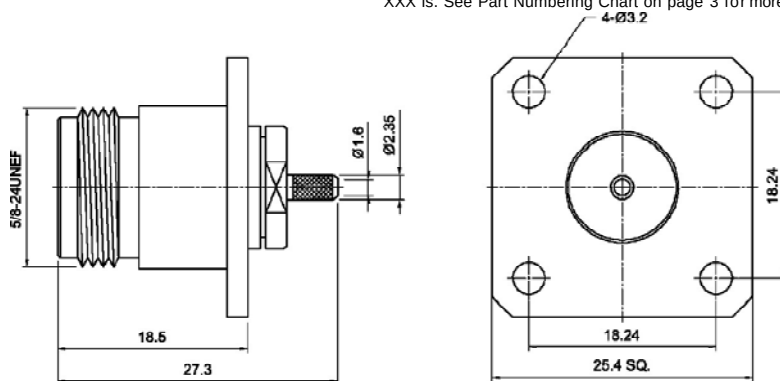


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Recommended Stripping DIMs:
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Panel Mount Crimp Jack

Part Number	Cable Type	M.H.
LTI-NSF12NT-XXX	RG-316,174,188;Q1,D316	42
LTI-7NSF12NT-179	RG-179 (75 ohm)	42

TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is. See Part Numbering Chart on page 3 for more info.

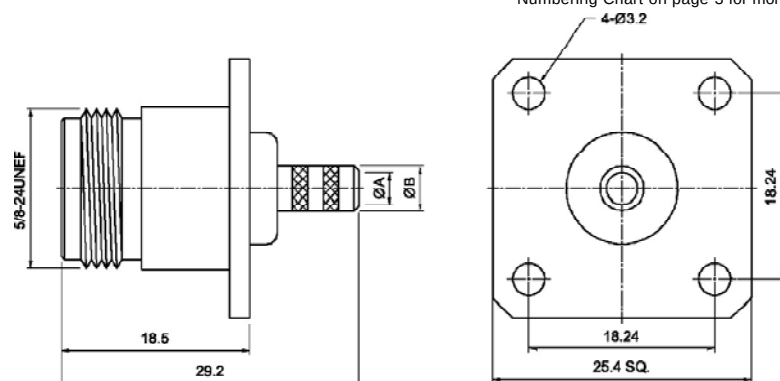


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Panel Mount Crimp Jack

Part Number	Cable Type	M.H.	Dimension	
LTI-NSF12NT-XXX	RG-58,141,142,223,400	42	A: 3.1	B: 4.4
LTI-7NSF12NT-59	RG-59 (75 ohm)	42	A: 3.9	B: 5.6

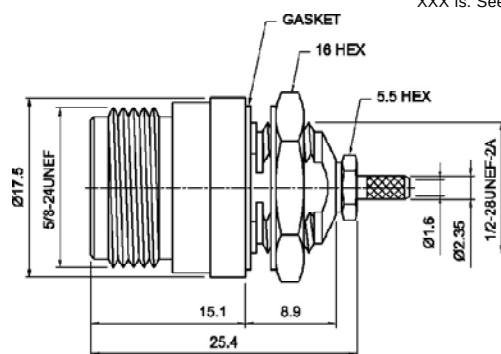
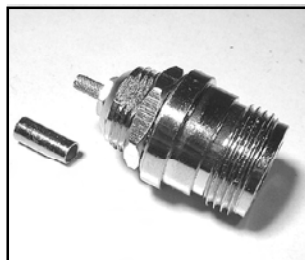
TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is. See Part Numbering Chart on page 3 for more info.



MOUNTING HOLE (M.H.): Page 175 ASSEMBLY INST.: Page 176
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Front Mount Bulkhead Crimp Jack

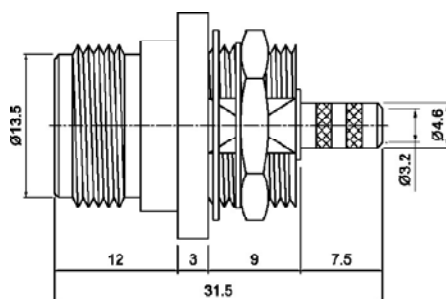
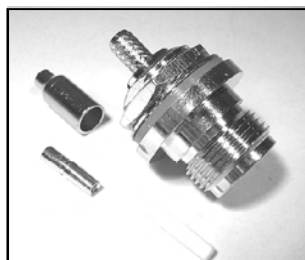


Part Number	Cable Type	M.H.
LTI-NSF13FNT-XXX	RG-316,174,188;Q1,D316	12
LTI-7NSF13FNT-179	RG-179 (75 ohm)	12

TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is. See Part Numbering Chart on page 3 for more info.

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Front Mount Bulkhead Crimp Jack, Long Version

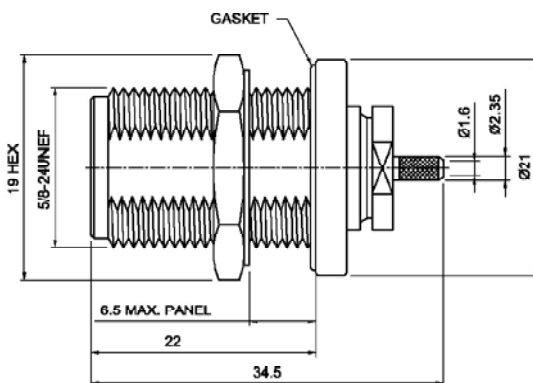


Part Number	Cable Type	M.H.
LTI-NSF13FLNT-XXX	RG-58,141,142,223,400	12
LTI-NSF13FLNT-XXX	RG-316,174,188;Q1,D316	12

TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is. See Part Numbering Chart on page 3 for more info.

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Rear Mount Bulkhead Crimp Jack



Part Number	Cable Type	M.H.
LTI-NSF13RNT-XXX	RG-316,174,188;Q1,D316	16
LTI-7NSF13RNT-179	RG-179 (75 ohm)	16

TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is. See Part Numbering Chart on page 3 for more info.

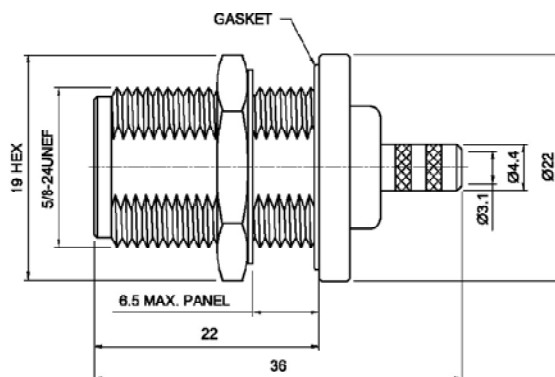
MOUNTING HOLE (M.H.): Page 174
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Rear Mount Bulkhead Crimp Jack

Part Number	Cable Type	M.H.	Dimension	
LTI-NSF13RNT-XXX	RG-58,141,142,223,400	16	A: 3.1	B: 4.4
LTI-7NSF13RNT-59	RG-59 (75 ohm)	16	A: 3.9	B: 5.6

TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is. See Part Numbering Chart on page 3 for more info.



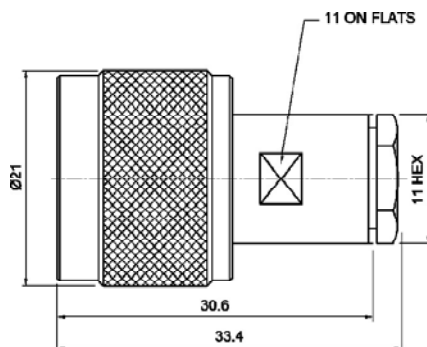
MOUNTING HOLE (M.H.): Page 174
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Straight Clamp Plug

Part Number	Cable Type
LTI-NSM21NT-XXX	RG-58,141,142,223,400
LTI-7NSM21NT-59	RG-59 (75 ohm)

TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.

See Part Numbering Chart on page 3 for more info.



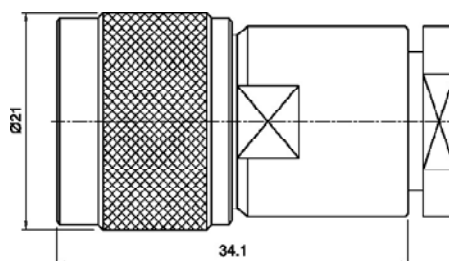
ASSEMBLY INST.: Page 178
Recommended Stripping DIMs:
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Straight Clamp Plug

Part Number	Cable Type
LTI-NSM21NT-XXX	RG-8,213,214; Q
LTI-7NSM21NT-11	RG-11 (75 ohm)

TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.

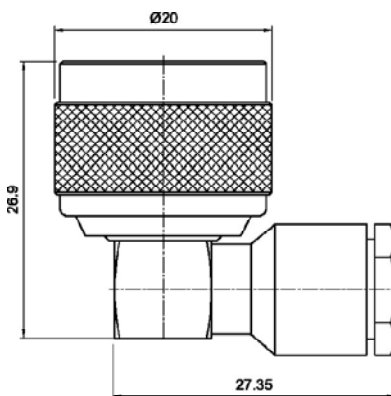
See Part Numbering Chart on page 3 for more info.



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Recommended Stripping DIMs:
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Right Angle Clamp Plug

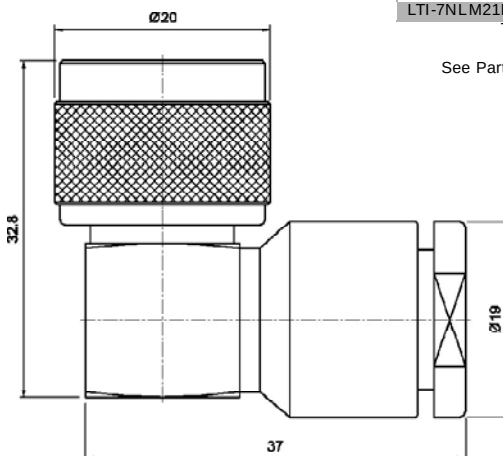


Part Number	Cable Type
LTI-NLM21NT-XXX	RG-58,141,142,223,400
LTI-7NLM21NT-59	RG-59 (75 ohm)

TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

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Recommended Stripping DIMS:
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Right Angle Clamp Plug

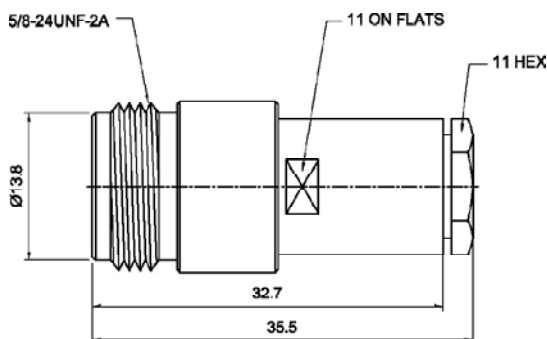


Part Number	Cable Type
LTI-NLM21NT-XXX	RG-8,213,214; Q
LTI-7NLM21NT-11	RG-11 (75 ohm)

TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

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Recommended Stripping DIMS:
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Straight Clamp Jack



Part Number	Cable Type
LTI-NSF21NT-XXX	RG-58,141,142,223,400
LTI-7NSF21NT-59	RG-59 (75 ohm)

TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.

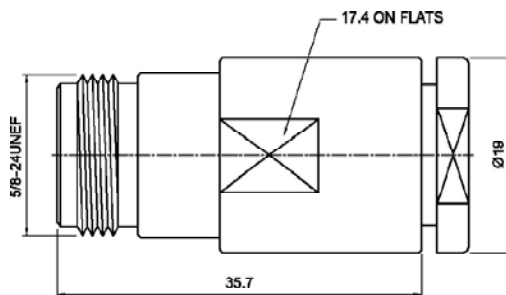
ASSEMBLY INST.: Page 178
Recommended Stripping DIMS:
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Straight Clamp Jack

Part Number	Cable Type
LTI-NSF21NT-XXX	RG-8,213,214; Q
LTI-7NSF21NT-11	RG-11 (75 ohm)

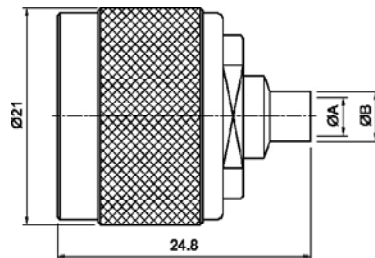
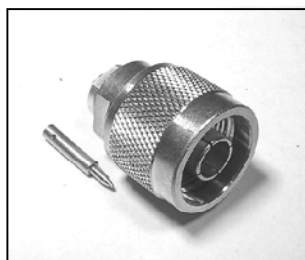
TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.



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Recommended Stripping DIMs:
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Solder Plug for Semi-Rigid Cable

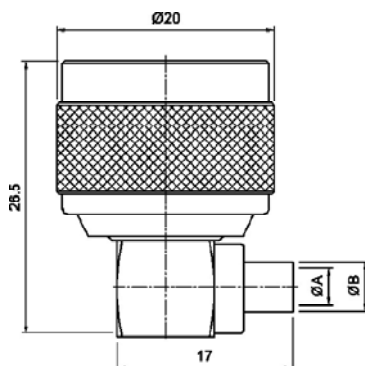
Part Number	Cable Type	Dimension	
LTI-NSM31GT-086	Semi-Rigid .086	A: 2.3	B: 3.2
LTI-NSM31GT-141	Semi-Rigid .141	A: 3.65	B: 4.8



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Recommended Stripping DIMs:
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Right Angle Solder Plug for Semi-Rigid Cable

Part Number	Cable Type	Dimension	
LTI-NLM31GT-086	Semi-Rigid .086	A: 2.3	B: 3.2
LTI-NLM31GT-141	Semi-Rigid .141	A: 3.65	B: 4.8

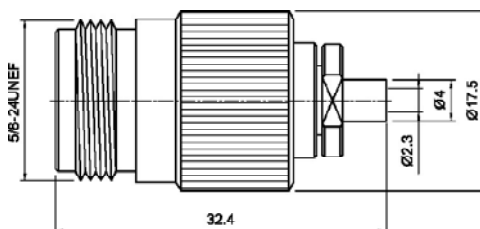


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Recommended Stripping DIMs:
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Solder Jack for Semi-Rigid Cable

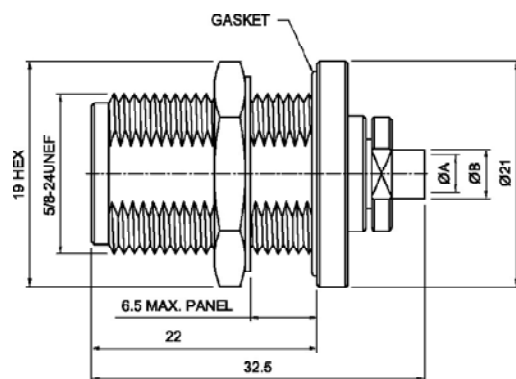
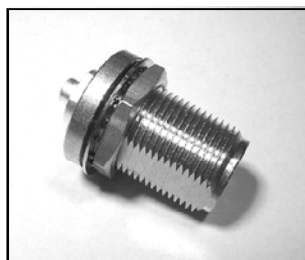
Part Number	Cable Type	Dimension	
LTI-NSF31GT-086	Semi-Rigid .086	A: 2.3	B: 3.2
LTI-NSF31GT-141	Semi-Rigid .141	A: 3.65	B: 4.8



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Recommended Stripping DIMS:
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Bulkhead Rear Mount Jack for Semi-Rigid Cable

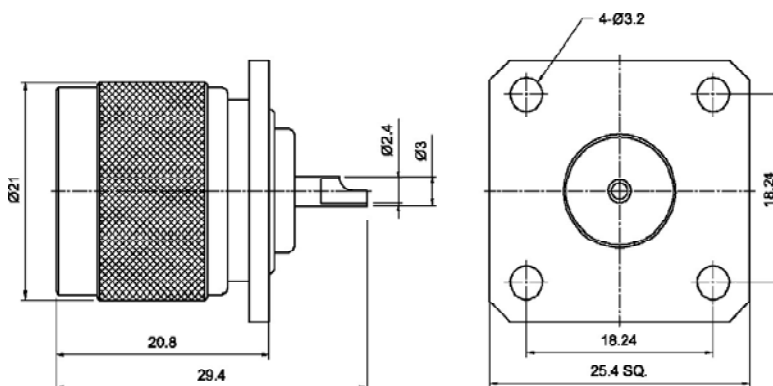
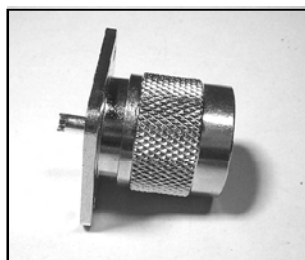
Part Number	Cable Type	M.H.	Dimensions	
LTI-NSF33RGT-086	Semi-Rigid .086	16	A: 2.3	B: 3.2
LTI-NSF33RGT-141	Semi-Rigid .141	16	A: 3.65	B: 4.8



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Recommended Stripping DIMS:
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Panel Mount Plug with Solder Cup Termination

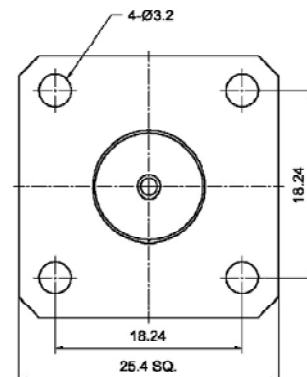
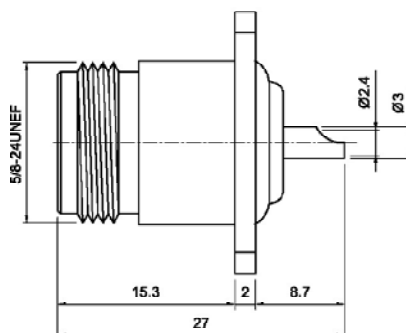
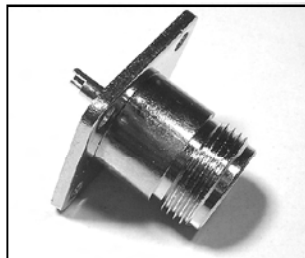
Part Number	M.H.
LTI-NSM42NT	41
LTI-7NSM42NT (75 ohm)	41



MOUNTING HOLE (M.H.): Page 175



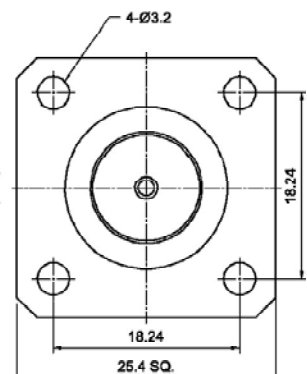
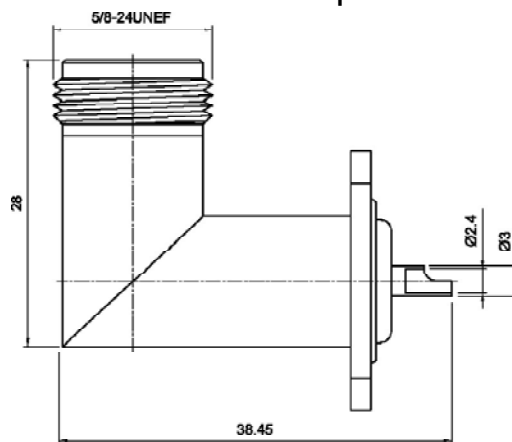
Panel Mount Jack with Solder Cup Termination



MOUNTING HOLE (M.H.): Page 175

Part Number	M.H.
LTI-NSF42NT	41
LTI-7NSF42NT (75 ohm)	41

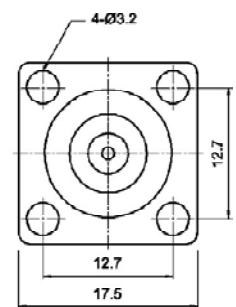
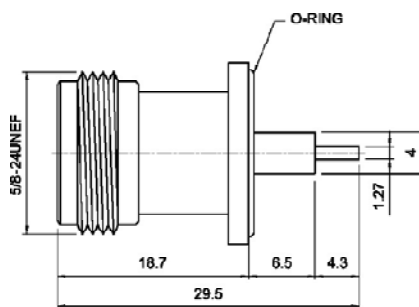
Right Angle Panel Mount Jack with Solder Cup Termination



MOUNTING HOLE (M.H.): Page 175

Part Number	M.H.
LTI-NLF42NT	41
LTI-7NLF42NT (75 ohm)	41

Panel Mount Jack with Solder Post, Extended Dielectric, and O-Ring

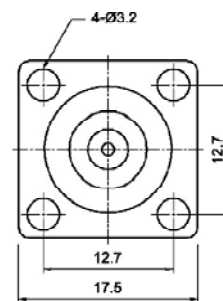
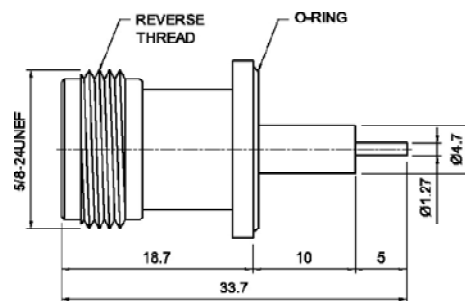
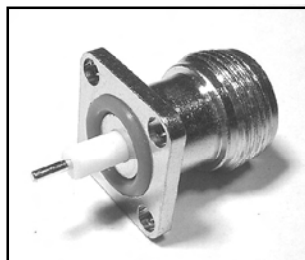


MOUNTING HOLE (M.H.): Page 175



Reverse Thread Panel Mount Jack with Solder Post, Extended Dielectric, and O-Ring

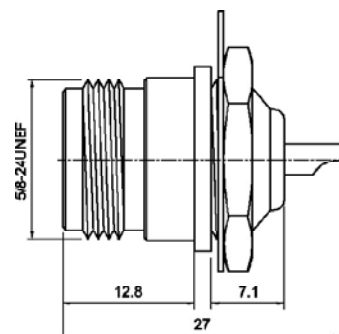
Part Number	M.H.
LTI-NSF92oDNT-RT	38
LTI-7NSF92oDNT-RT (75 ohm)	38



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Bulkhead Jack with Solder Cup Termination

Part Number	M.H.
LTI-NSF43NT	17
LTI-7NSF43NT (75 ohm)	17

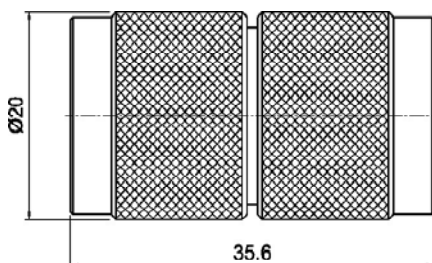


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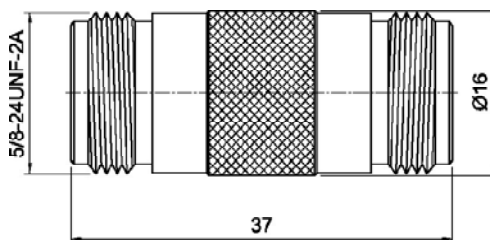
Straight Plug to Plug Adapter

Part Number
LTI-A2NSMMNT
LTI-7A2NSMMNT (75 ohm)



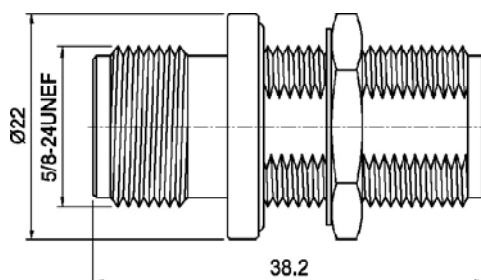
Straight Jack to Jack Adapter

Part Number
LTI-A2NSFFNT
LTI-7A2NSFFNT (75 ohm)



Bulkhead Jack to Jack Adapter

Part Number	M.H.
LTI-A2NSFF3NT	16
LTI-7A2NSFF3NT (75 ohm)	16

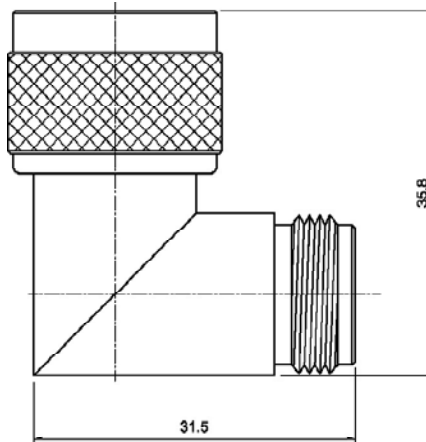


MOUNTING HOLE (M.H.): Page 174



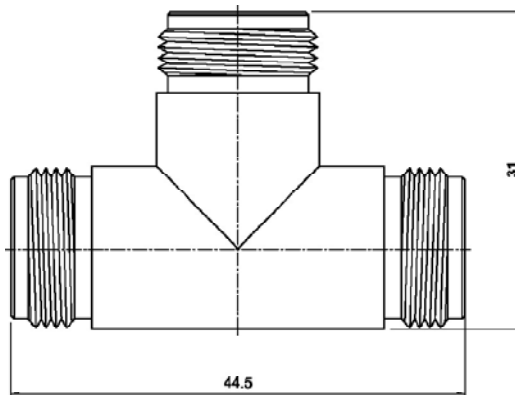
Right Angle Jack to Plug Adapter

Part Number
LTI-A2NLFMNT
LTI-7A2NLFMNT (75 ohm)



T Adapter, Jack to Jack to Jack

Part Number
LTI-A3NTFFNT
LTI-7A3NTFFNT (75 ohm)



T Adapter, Jack to Plug to Jack

Part Number
LTI-A3NTFMNT
LTI-7A3NTFMNT (75 ohm)

