



TNC Connectors

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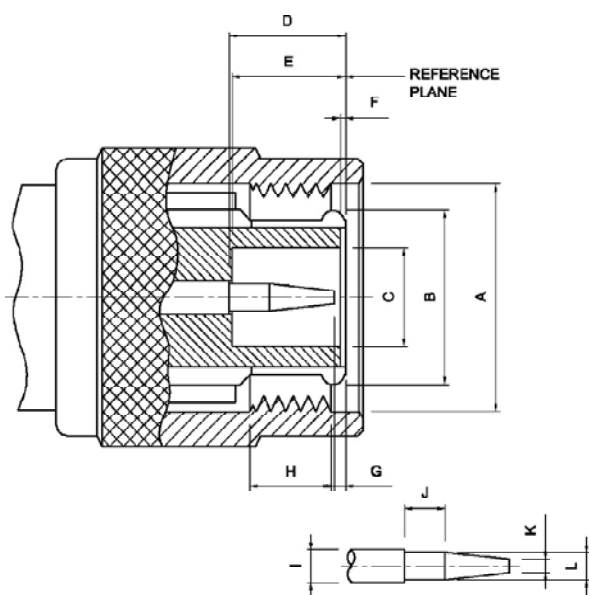
Prices, specifications, statement of warranty, and other terms and conditions are subject to change without notice by Lighthouse Technologies, Inc.



TNC series RF connectors are basically BNC connectors with threaded coupling and improved electrical performance at higher frequencies. TNC 50 ohm connectors provide repeatable electronic performance from DC to 11 GHz. TNC 75 ohm connectors are suitable for applications up to 1 GHz. All 50 and 75 ohm connectors are intermatable. TNC connectors are designed to accommodate cables from .150" to .250" OD. The TNC is a weatherproof unit and, with its threaded coupling, ensures low noise and withstands shock and vibration. LTI TNC connectors are designed to conform to MIL-C-39012 specifications. Typical TNC series coaxial connector applications include airframe, missile, radar, cellular mobile phones, and precision electronic equipment industries.

Interface Mating Dimensions

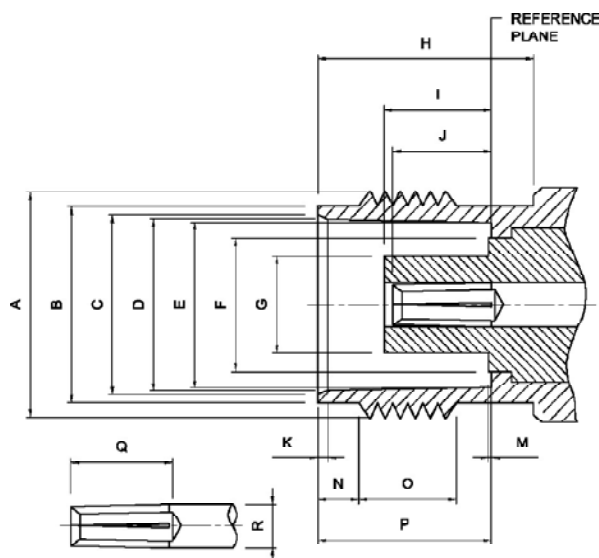
PLUG



Letter	Minimum	Maximum
A	11.18	-
B	-	8.08
C	4.83	-
D	5.33	5.84
E	5.28	5.79
F	0.15	0.46
G	0.08	1.02
H	2.06	2.21
I	1.98	-
J	-	0.64
K	1.32	1.37

JACK

Letter	Minimum	Maximum
A	10.97	11.07
B	9.60	9.70
C	8.79	9.04
D	8.31	8.46
E	8.10	8.15
F	-	6.50
G	-	4.72
H	10.52	-
I	4.78	5.28
J	4.72	5.23
K	0.38	0.76
L	1.91	2.06
M	-	0.15
N	1.73	2.24
O	4.75	-
P	8.31	8.51
Q	4.95	-
R	2.06	2.21





ELECTRICAL RATINGS

Impedance	50 ohm	75 ohm
Frequency Range	DC to 11 GHz	DC to 1 GHz
VSWR	1.3 max	
Voltage Rating (at sea level, in R rms, 50Hz)	500 max	
Dielectric Withstanding Voltage (at sea level, in R rms, 50Hz)	1500 min	
Insulation Resistance	5000 MΩ min	
Insertion Loss	0.2 dB max @ 3.0 GHz	
Contact Resistance	<i>Center Contact</i>	<i>Outer Contact</i>
	2.0 mΩ max	1.0 mΩ max

MECHANICAL RATINGS

Mating	7/16" threaded coupling	
Durability	500 matings max	
Coupling Nut Torque	4/1 to 6.1 in-lbs	
Coupling Nut Retention Force	101.2 lbs max	
Contact Captivation	6.1 lbs max	
Cable Retention	<i>Semi-Rigid and Clamp Type</i>	40 lbs min
	<i>RG-178,196</i>	7.3 lbs min
	<i>RG-174,188,316</i>	12.1 lbs min
	<i>RG-58,59</i>	28.7 lbs min

ENVIRONMENTAL RATINGS

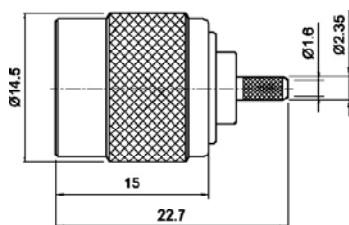
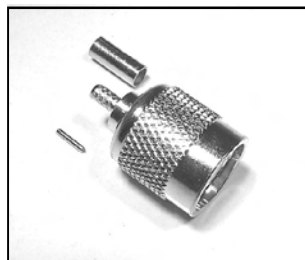
Temperature Range	-65°C to + 165°C
Thermal Shock	MIL-STD-202F, Method 1017G, Condition A
Vibration	MIL-STD-202F, Method 204D, Condition A
Corrosion	MIL-STD-202F, Method 101D, Condition B
Mechanical Shock	MIL-STD-202F, Method 213B, Condition A

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

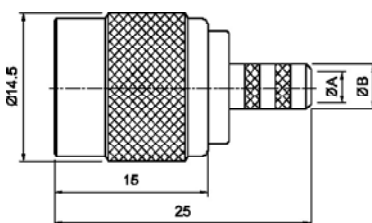
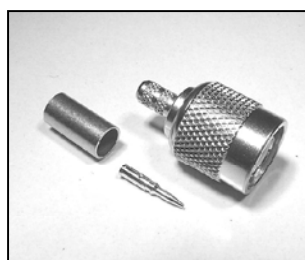


Part Number	Cable Type
LTI-TSM11NT-XXX	RG-316,174,188;Q1,D316
LTI-7TSM11NT-179	RG-179 (75 ohm)

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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Straight Crimp Plug

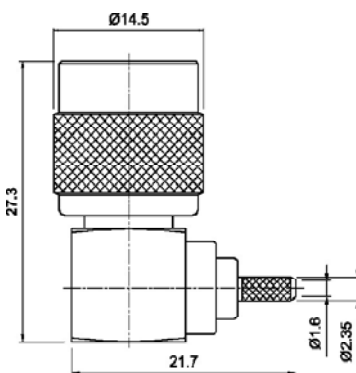


Part Number	Cable Type	Dimension
LTI-TSM11NT-XXX	RG-58,141,142,223,400	A: 3.1 B: 4.4
LTI-7TSM11NT-59	RG-59 (75 ohm)	A: 3.9 B: 5.6

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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Right Angle Crimp Plug



Part Number	Cable Type
LTI-TLM11NT-XXX	RG-316,174,188;Q1,D316
LTI-7TLM11NT-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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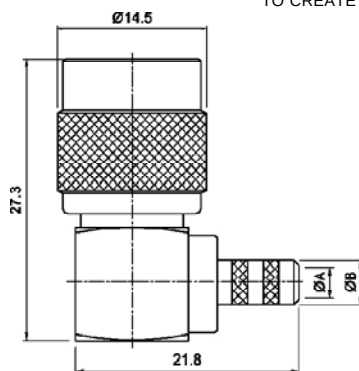


Lighthorse Technologies, Inc.

Flexible Cable

TNC

Right Angle Crimp Plug

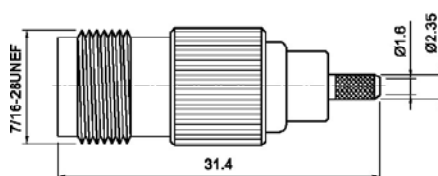


Part Number	Cable Type	Dimension	
LTI-TLM11NT-XXX	RG-58,141,142,223,400	A: 3.1	B: 4.4
LTI-7TLM11NT-59	RG-59 (75 ohm)	A: 3.9	B: 5.6

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

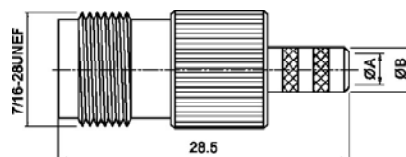
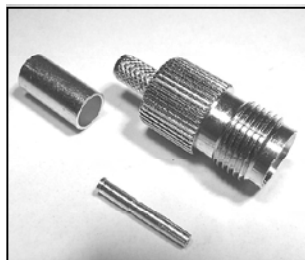


Part Number	Cable Type
LTI-TSF11NT-XXX	RG-316,174,188;Q1,D316
LTI-7TSF11NT-179	RG-179 (75 ohm)

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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Straight Crimp Jack



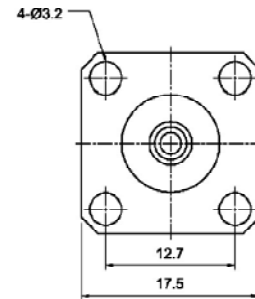
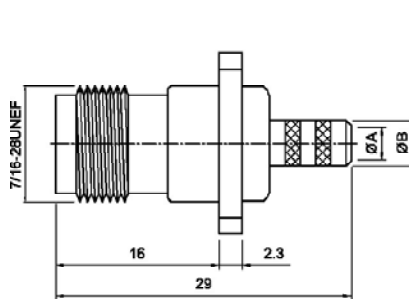
Part Number	Cable Type	Dimension	
LTI-TSF11NT-XXX	RG-58,141,142,223,400	A: 3.1	B: 4.4
LTI-7TSF11NT-59	RG-59 (75 ohm)	A: 3.9	B: 5.6

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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Panel Mount Crimp Jack

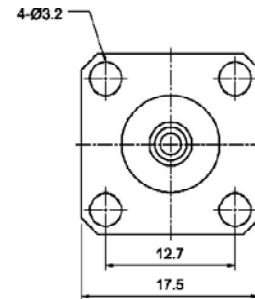
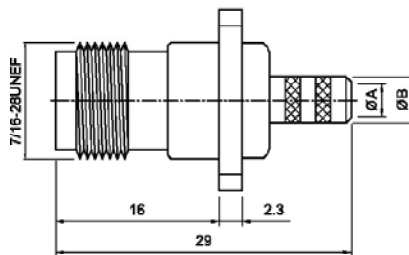


Part Number	Cable Type	M.H.
LTI-TSF12NT-XXX	RG-316,174,188;Q1,D316	40
LTI-7TSF12NT-179	RG-179 (75 ohm)	40

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

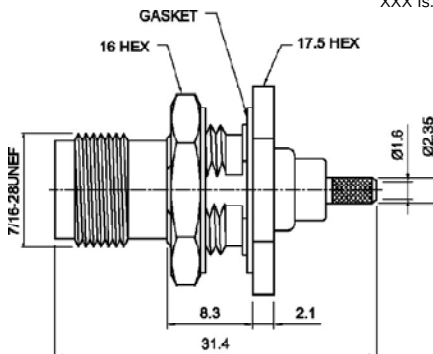


Part Number	Cable Type	M.H.	Dimension
LTI-TSF12NT-XXX	RG-58,141,142,223,400	40	A: 3.1 B: 4.4
LTI-7TSF12NT-59	RG-59 (75 ohm)	40	A: 3.9 B: 5.6

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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Bulkhead Crimp Jack



Part Number	Cable Type	M.H.
LTI-TSF13RNT-XXX	RG-316,174,188;Q1,D316	14
LTI-7TSF13RNT-179	RG-179 (75 ohm)	14

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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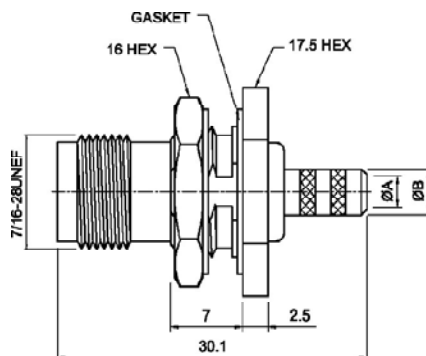


Bulkhead Crimp Jack



Part Number	Cable Type	M.H.	Dimension	
LTI-TSF13RNT-XXX	RG-58,141,142,223,400	14	A: 3.1	B: 4.4
LTI-7TSF13RNT-59	RG-59 (75 ohm)	14	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.



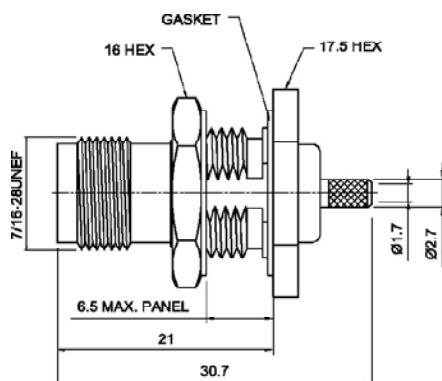
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Bulkhead Crimp Jack, Long



Part Number	Cable Type	M.H.
LTI-TSF13RLNT-XXX	RG-316,174,188;Q1,D316	14
LTI-7TSF13RLNT-179	RG-179 (75 ohm)	14

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



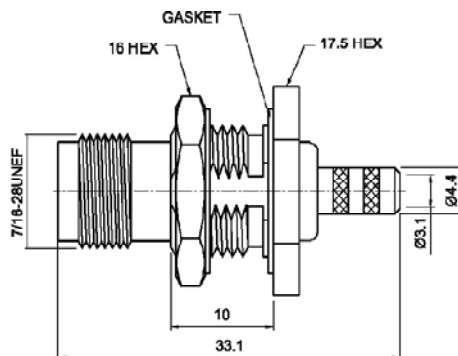
MOUNTING HOLE (M.H.): Page 175
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Bulkhead Crimp Jack, Long



Part Number	Cable Type	M.H.	Dimension	
LTI-TSF13RLNT-XXX	RG-58,141,142,223,400	14	A: 3.1	B: 4.4
LTI-7TSF13RLNT-59	RG-59 (75 ohm)	14	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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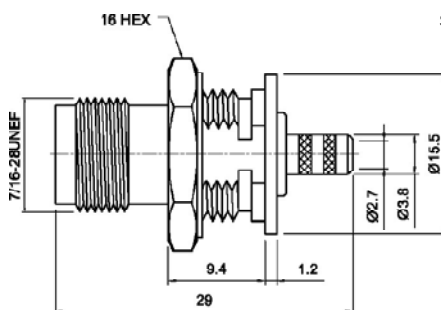
Isolated Bulkhead Crimp Jack

Part Number	Cable Type	M.H.
LTI-TSF13RENT-XXX	RG-316,174,188;Q1,D316	14
LTI-7TSF13RENT-179	RG-179 (75 ohm)	14

TO CREATE COMPLETE PART NUMBER:

Fill in Cable Type where XXX is.

See Part Numbering Chart on page 3 for more info.

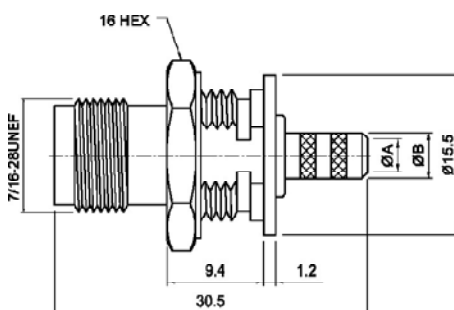


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Isolated Bulkhead Crimp Jack

Part Number	Cable Type	M.H.	Dimension
LTI-TSF13RENT-XXX	RG-58,141,142,223,400	14	A: 3.1 B: 4.4
LTI-7TSF13RENT-59	RG-59 (75 ohm)	14	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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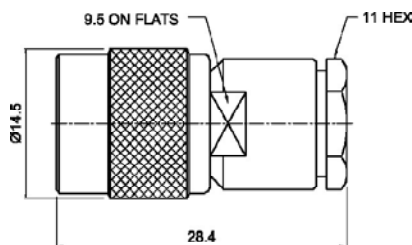
Straight Clamp Plug

Part Number	Cable Type
LTI-TSM21NT-XXX	RG-58,141,142,223,400
LTI-7TSM21NT-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.



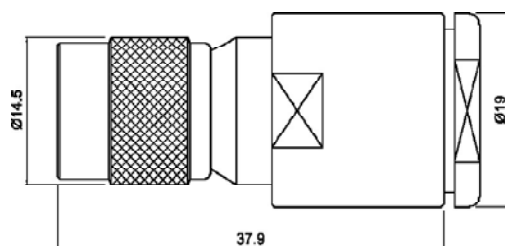
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Straight Clamp Plug

Part Number	Cable Type
LTI-TSM21NT-XXX	RG-8,213,214; Q
LTI-7TSM21NT-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.

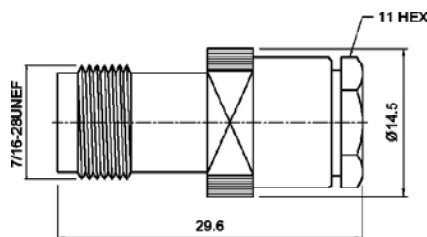


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Straight Clamp Jack

Part Number	Cable Type
LTI-TSF21NT-XXX	RG-58,141,142,223,400
LTI-7TSF21NT-59	RG-59 (75 ohm)

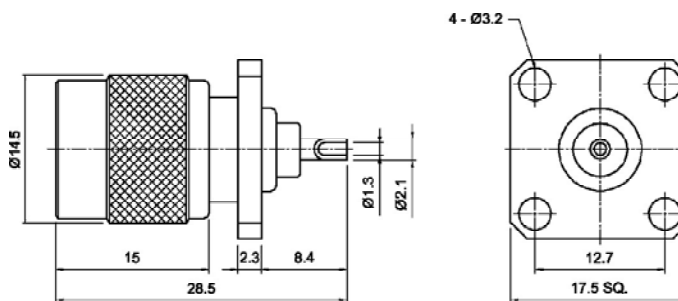
TO CREATE COMPLETE PART NUMBER:
Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.



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Page 172, Line 21

Panel Mount Plug with Solder Cup Termination

Part Number	M.H.
LTI-TSM42NT	39
LTI-7TSM42NT (75 ohm)	39

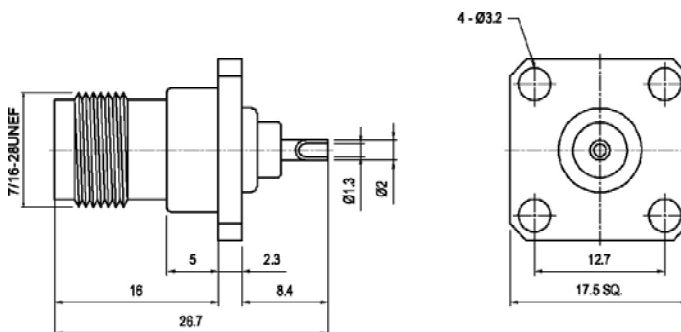


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Panel Mount Jack with Solder Cup Termination

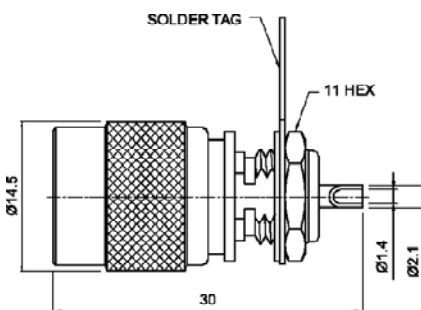
Part Number	M.H.
LTI-TSF42NT	39
LTI-7TSF42NT (75 ohm)	39



MOUNTING HOLE (M.H.): Page 175

Front Mount Bulkhead Plug with Solder Cup Termination

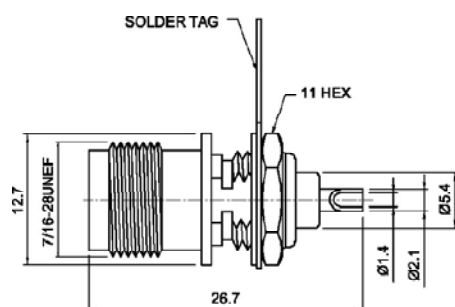
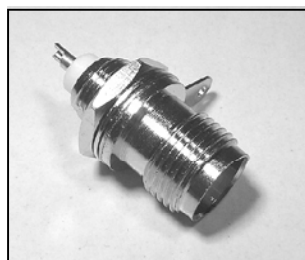
Part Number	M.H.
LTI-TSM43NT	10
LTI-7TSM43NT (75 ohm)	10



MOUNTING HOLE (M.H.): Page 174

Front Mount Bulkhead Jack with Solder Cup Termination

Part Number	M.H.
LTI-TSF43NT	10
LTI-7TSF43NT (75 ohm)	10



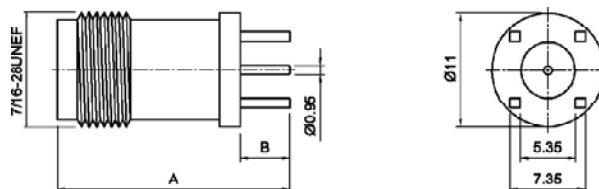
MOUNTING HOLE (M.H.): Page 174



Vertical PCB Thru Hole Jack

Part Number	M.H.	Overall Length
LTI-TSF54_NT	27	$\perp$ A: 22.65 B: 4.8
LTI-TSF54_NT	27	M A: 18.2 B: 4.5
LTI-7TSF54_NT (75 ohm)	27	$\perp$ A: 22.65 B: 4.8
LTI-7TSF54_NT (75 ohm)	27	M A: 18.2 B: 4.5

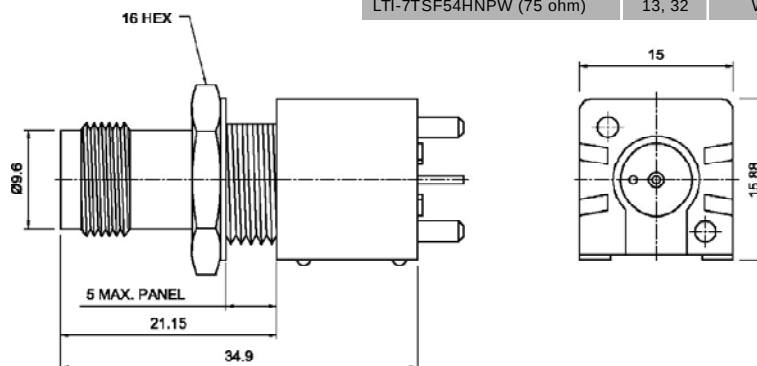
TO CREATE PART NUMBER: Insert the corresponding letter from the required length in the space after the "4", at the center of the part number.



MOUNTING HOLE (M.H.): Page 174

Vertical PCB Thru Hole Jack, Commercial High Profile

Part Number	M.H.	Housing
LTI-TSF54HNPB	13, 32	Black
LTI-TSF54HNPW	13, 32	White
LTI-7TSF54HNPB (75 ohm)	13, 32	Black
LTI-7TSF54HNPW (75 ohm)	13, 32	White

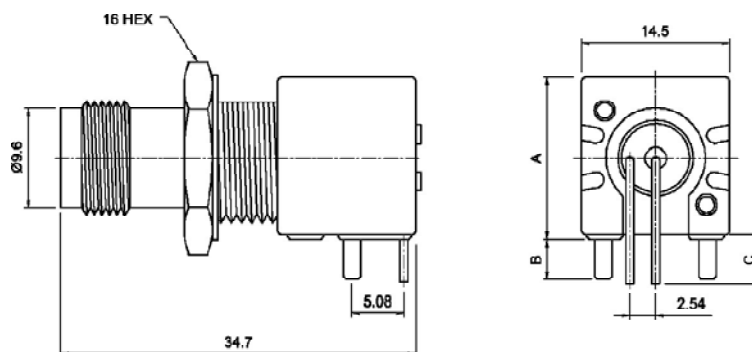


MOUNTING HOLE (M.H.): Page 174, 175

Right Angle PCB Thru Hole Jack, Commercial

Part Number	M.H.	Profile	Housing
LTI-TLF54_NP_ LTI-7TLF54_NP_ (75 ohm)	12, 33	Z Dim A: 12.5	B: Black W: White
LTI-TLF54_NP_ LTI-7TLF54_NP_ (75 ohm)	12, 33	M Dim A: 13.1	B: Black W: White
LTI-TLF54_NP_ LTI-7TLF54_NP_ (75 ohm)	12, 33	H Dim A: 15.88	B: Black W: White

TO CREATE PART NUMBER: Insert the corresponding letter from the required profile in the space after the "4", at the center of the part number. Insert the letter from the desired housing color at the end of the part number.



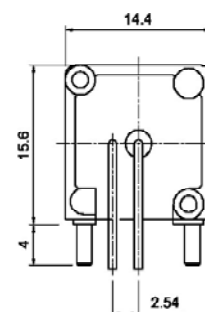
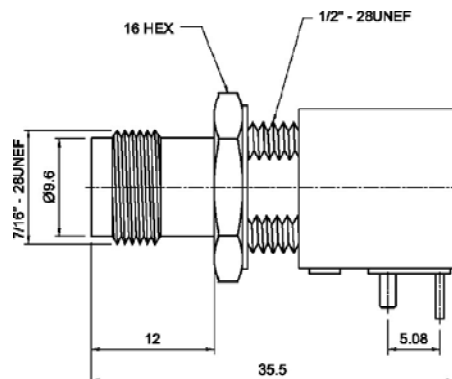
MOUNTING HOLE (M.H.): Page 174, 175



Right Angle PCB Thru Hole Jack, Commercial, Metal Housing

Part Number		M.H.	Profile	
LTI-TLF54_NPM	LTI-7TLF54_NPM (75 ohm)	13, 32	M	Dim A: 13.1
LTI-TLF54_NPM	LTI-7TLF54_NPM (75 ohm)	13, 32	H	Dim A: 15.88

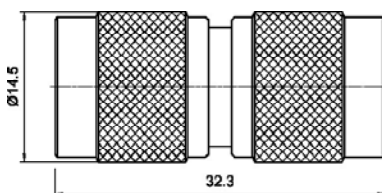
TO CREATE PART NUMBER: Insert the letter from the desired housing color at the end of the part number.



MOUNTING HOLE (M.H.): Page 174, 175

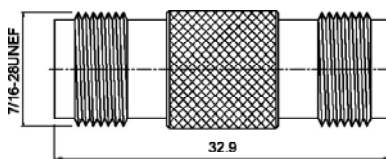
Straight Plug to Plug Adapter

Part Number
LTI-A2TSMNNT
LTI-7 A2TSMNNT (75 ohm)



Straight Jack to Jack Adapter

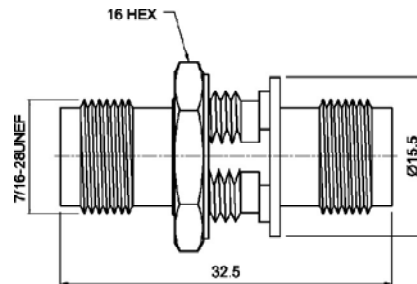
Part Number
LTI-A2TSFFNT
LTI-7 A2TSFFNT (75 ohm)





Bulkhead Jack to Jack Adapter

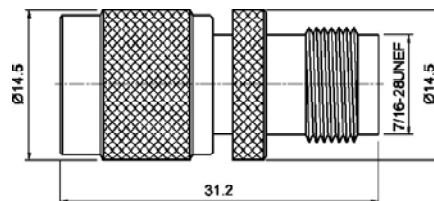
Part Number	M.H.
LTI-A2TSFF3NT	14
LTI-7 A2TSFF3NT (75 ohm)	14



MOUNTING HOLE (M.H.): Page 174

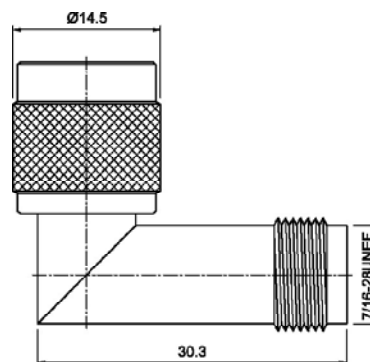
Straight Jack to Plug Adapter

Part Number
LTI-A2TSFMNT
LTI-7 A2TSFMNT (75 ohm)



Right Angle Jack to Plug Adapter

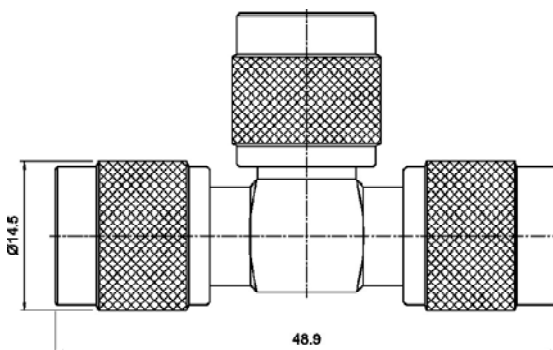
Part Number
LTI-A2TLFMNT
LTI-7 A2TLFMNT (75 ohm)





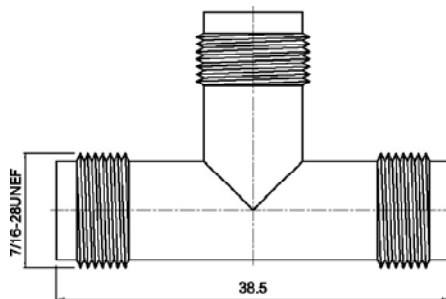
T Adapter, Plug to Plug to Plug

Part Number
LTI-A3TTMMMNT
LTI-7A3TTMMMNT (75 ohm)



T Adapter, Jack to Jack to Jack

Part Number
LTI-A3TTFFFNT
LTI-7A3TTFFFNT (75 ohm)



T Adapter, Jack to Plug to Jack

Part Number
LTI-A3TTFMFNT
LTI-7A3TTFMFNT (75 ohm)

