



7/16 Connectors

Specifications	152
Flexible Cable	154
Panel Mount	155

Other Information

Assembly Instructions	176
Cable Assembly	166
Cable Information	168
Numerical Index	184

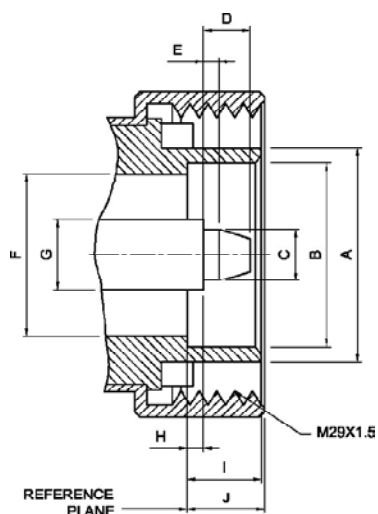
Prices, specifications, statement of warranty, and other terms and conditions are subject to change without notice by Lighthorse Technologies, Inc.



7/16 series RF connectors are 50 ohm constant impedance connectors with repeatable electrical performance from DC to 7.5 GHz. They are medium-size rugged connectors and feature good power-handling capability. 7/16 connectors are designed to minimize signal distortion from intermodulation. Because of this, standard plating is silver. Optional nickel plating should only be specified when low intermodulation is not a concern in your system design. At this time, Lighthouse Technologies only offers panel mount versions of the 7/16 as standard connectors. However, if you require a different mounting style, we will be happy to consider your requirements to provide a working solution.

Interface Mating Dimensions

PLUG



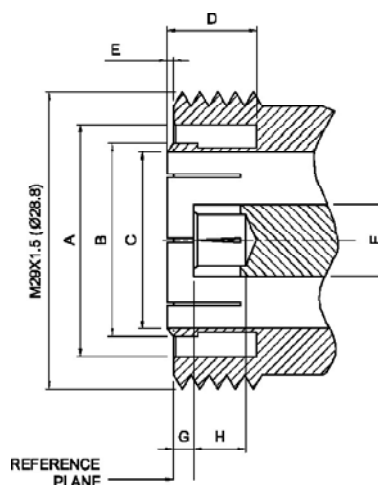
Letter	Minimum	Maximum
A	20.60	21.40
B	18.03	18.21
C	4.96	5.04
D	-	4.50
E	1.40	1.60
F	15.85	16.25
G	6.97	7.03
H	1.47	1.77
I	7.00	8.00
J	7.00	9.00

DIMENSIONS ARE IN MILLIMETERS

JACK

Letter	Minimum	Maximum
A	22.10	22.90
B	-	18.00
C	15.85	16.25
D	8.10	-
E	0.50	0.70
F	6.97	7.03
G	1.77	2.07
H	5.00	-

DIMENSIONS ARE IN MILLIMETERS





ELECTRICAL RATINGS

Impedance	50 ohm	
Frequency Range	0-7.5 GHz	
VSWR	<i>Straight</i>	<i>Right Angle</i>
	1.3 max	1.5 max
Voltage Rating (in VRMS at sea level)	2700 max	
Dielectric Withstanding Voltage (in VRMS at sea level)	4000 min	
Insulation Resistance	5000 M Ω min	
Contact Resistance	<i>Center Contact</i>	<i>Outer Contact</i>
	0.4 m Ω max	.02 m Ω max

MECHANICAL RATINGS

Mating	M29 x 1.5 threaded coupling
Durability	500 matings max
Coupling Proof Torque	310 in-lbs max
Coupling Nut Retention Force	225 lbs max
Contact Captivation	45 lbs min

MATERIALS

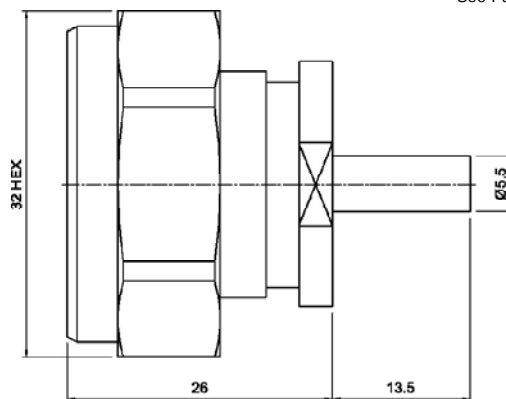
		<i>Material</i>	<i>Plating</i>
Connector Body		Brass per QQ-B-626	Nickel, Silver
Center Contact	<i>Male</i>	Brass per QQ-B-626	Gold
	<i>Female</i>	Phosphor Bronze per QQ-B-750	Gold
Insulator		Teflon, Delrin, Polypropylene	None
Gasket		Silicone Rubber	None
Crimp Ferrule		Annealed Copper per WW-T-799	Same as body



Straight Crimp Plug

Part Number		Cable Type
Nickel Plated	Silver Plated	
LTI-716SM11NT-XXX	LTI-716SM11VT-XXX	RG-8,213,214;Q

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

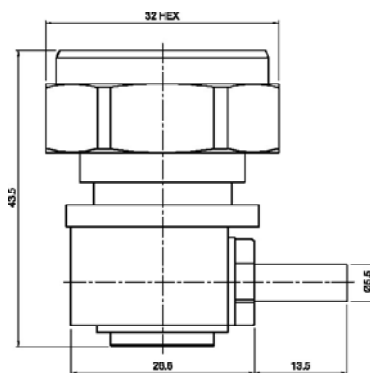


ASSEMBLY INST.: Page 176
Recommended Stripping DIMS:
Page 172, Line 40

Right Angle Crimp Plug

Part Number		Cable Type
Nickel Plated	Silver Plated	
LTI-716LM11NT-XXX	LTI-716LM11VT-XXX	RG-8,213,214;Q

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

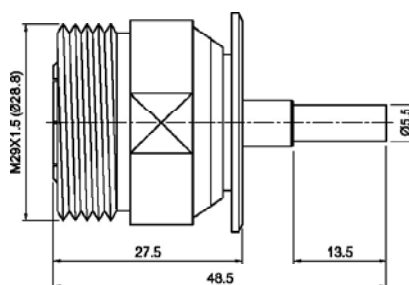


ASSEMBLY INST.: Page 177
Recommended Stripping DIMS:
Page 172, Line 40

Straight Crimp Jack

Part Number		Cable Type
Nickel Plated	Silver Plated	
LTI-716SF11NT-XXX	LTI-716SF11VT-XXX	RG-8,213,214;Q

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



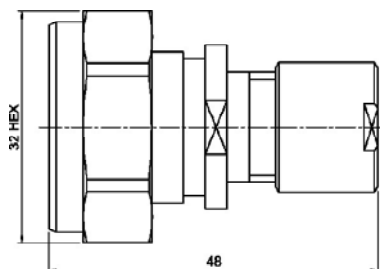
ASSEMBLY INST.: Page 176
Recommended Stripping DIMS:
Page 172, Line 40



Straight Clamp Plug

Part Number		Cable Type
Nickel Plated	Silver Plated	
LTI-716SM21NT-XXX	LTI-716SM21VT-XXX	RG-8,213,214;Q

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

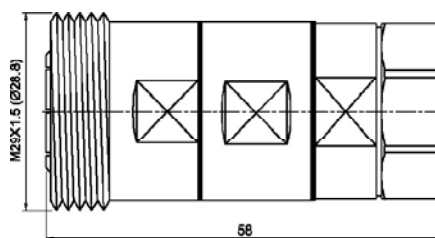


ASSEMBLY INST.: Page 178
Recommended Stripping DIMS:
Page 172, Line 40

Straight Clamp Jack

Part Number		Cable Type
Nickel Plated	Silver Plated	
LTI-716SF21NT-XXX	LTI-716SF21VT-XXX	RG-8,213,214;Q

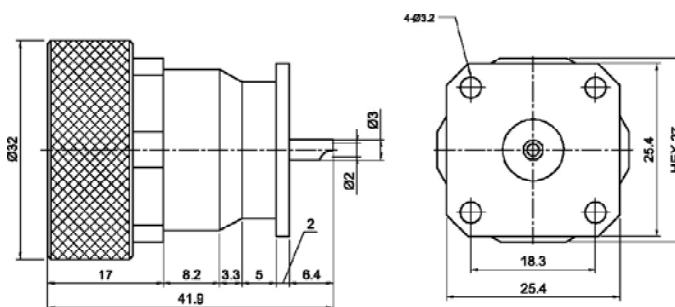
TO CREATE COMPLETE PART NUMBER: Fill in Cable Type where XXX is.
See Part Numbering Chart on page 3 for more info.



ASSEMBLY INST.: Page 178
Recommended Stripping DIMS:
Page 172, Line 40

Panel Mount Plug with Solder Cup Termination

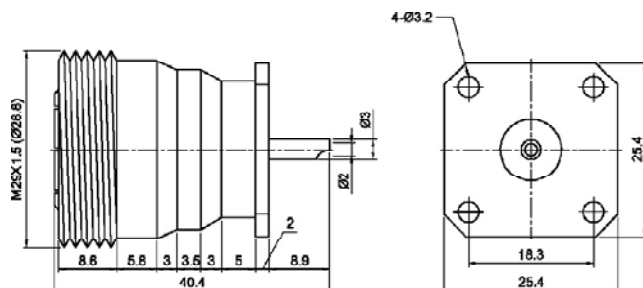
Part Number	
Nickel plated Brass	Silver plated Brass
LTI-716SM42NT	LTI-716SM42VT





Panel Mount Jack with Solder Cup Termination

Part Number	
<i>Nickel plated Brass</i>	<i>Silver plated Brass</i>
LTI-716SF42NT	LTI-716SF42VT



Panel Mount Jack with Slotted Terminal

Part Number	
<i>Nickel Plated</i>	<i>Silver Plated</i>
LTI-716SF82ONT	LTI-716SF82OVT

