For Semi-Rigid Cable

OSM Miniature connectors for semi-rigid cable represent the industry's largest selection of custom and standard products for RF and microwave applications using semirigid cable. Connectors are available for all cable sizes.

The direct solder attachment produces highly reliable high performance cable assemblies especially suited for microwave system applications. The solder attachment is suitable for applications ranging from lab work to full scale mechanized production.

There are four basic approaches to the OSM designs. Connectors such as the 2001-5009-02, 2001-5032-02 and 2001-5119-02 are provided with separate solder-on contacts of gold plated beryllium copper. Center contact attachment to the cable inner conductor is made prior to cable attachment. This contact then provides a highly reliable wear resistant center conductor for applications where repeated matings will occur. For connectors such as the 2001-7585-02, 2002-7541-00 and 2004-7585-00, a heat treated spring finger socket receptacle contact is mechanically captured to the connector assembly allowing the user to point the inner conductor of the cable and plug it into a wear resistant center contact of the connector. Connectors such as the 2001-7941-02, 2001-5025-02 and 2001-5031-02 utilize the trimmed and pointed cable inner conductor as the connector center contact pin.

In addition, there is a complete series of solderless compression crimp connectors where attachment to the outer jacket of the cable is accomplished using unique crimp tools.

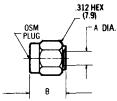
All connectors supplied with center contacts are supported by a PTFE fluorocarbon dielectric.

All plug connectors can be provided with a variety of coupling nut arrangements including retractable, low profile and wire lock styles.

.085 and .141 Dia. • Direct Solder Attachment





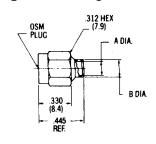


Cable	RG 402/U	(.141)	RG 405/U	(.085)
Cable Dielectric	Solid PTFE		Solid PTFE	
Part Number	2001-7941-02 Without Contact		2001-5009-02 With Contact	
Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)
Dim. B	.330 Ref.	(8.4)	.440 Ref.	(11.2)

Finish: Housing is gold plated in all cases. Coupling nut is passivated stainless steel. For gold plated coupling nut, change the part number suffix from -02 to -00. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section.



Straight Cable Plug



Cable	RG 402/U	(.141)	RG 405/U	(.085)	RG 405/U	(.085)
Cable Dielectric	Solid P	TFE	Solid P	TFE	Solid P	TFE
Part Number	2001-503 1 Without C		2001-5032-02 With Contact		2001-7585-02 With Mechanically Captured Contact	
Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)	inches .089 Min.	(mm) -(2.3)
Dim. B	.180 Ref.	(4.6)	.120 Ref.	(3.0)	.120 Ref.	(3.0)

Finish: Housing is gold plated in all cases. Coupling nut is passivated stainless steel. For gold plated coupling nut, change the part number suffix from -02 to -00. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section.

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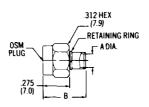
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For Semi-Rigid Cable

.085 and .141 Dia. • Direct Solder Attachment



Straight Cable Plug **Retractable Coupling Nut**

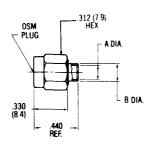


Cable	RG 402/U	(.141)	RG 402/U	(.141)	RG 405/U	(.085)
Cable Dielectric	Solid P	TFE	Solid P	TFE	Solid P	TFE
Part Number	2001-5029 Without C		2001-5068-02 Without Contact		2001-5119-02 With Contact	
Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)
Dim. B.	.440 Ref.	(11.2)	.330 Ref.	(8.4)	.530 Ref.	(13.5)

Finish: Housing is gold plated in all cases. Coupling nut is passivated stainless steel. For gold plated coupling nut, change the part number suffix from -02 to -00. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly lools in Tool Section.



Straight Cable Plug With Center Contact



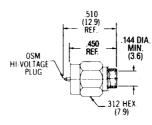
Cable	RG 402/U (.141)		.141	.141		RG 405/U (.085)	
Cable Dielectric	Solid P	TFE	Microporou	is PTFE	Solid P	TFE	
Part Number	2001-5003	3-02	2001-7943-02		2001-7985-02		
Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)	
Dim. B	.180	(4.6)	.180 Ref.	(4.6)	.120 Ref.	(3.0)	

ted stainless steel. For gold plated coupling nut, change the Part Number suffix from -02 to -00.

Refer to Appendix for Coaxial Cable Characteristics.
Refer to recommended assembly tools in Tool Section.



Straight Cable Plug High Voltage

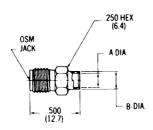


Cable	RG 402/U (.141)
Cable Dielectric	Solid PTFE
Part Number	2001-5246-00

Finish: Gold plate. For passivated stainless steel, change the Part Number suffix from -00 to -02. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section.

Interface does not conform to catalog dimensions or MIL-STD-348

Straight Cable Jack



^{*} Overall length of 2002-7585-00 is .625

Cable	RG 402/U (.141)		RG 405/U	(.085)
Cable Dielectric	Solid PTFE		Solid P	ΓFE
	2002-5015-00 With Contact 2002-7541-00 With Mechanically Captured Contact		2002-5016-00 With Contact	
Part Number			2002-7585-00 With Mechanically Captured Contact	
Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)
Dim. B	.180 Ref.	(4.6)	.120 Ref.	(3.0)

Finish: Gold plate. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section.

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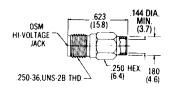
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For Semi-Rigid Cable

.085 and .141 Dia. • Direct Solder Attachment



Straight Cable Jack High Voltage



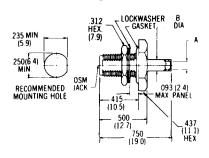
Cable	RG 402/U (.141)
Cable Dielectric	Solid PTFE
Part Number	2002-5070-00

Finish: Gold plate. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section.

Interface does not conform to catalog dimensions or MIL-STD-348



Bulkhead Feedthrough Cable Jack



Cable	RG 402/U (.141)		RG 405/U (.085)		
Cable Dielectric	Solid PTFE		Solid PTFE		
0.074	2004-7941-00		2004-7985-00		
Part Number	2004-7541 With Mech Captured (anically			
, Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)	
Dim. B	.180	(4.6)	.120	(3.0)	

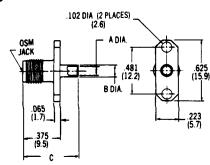
Finish: Gold plate.

Refer to Appendix for Coaxial Cable Characteristics.

Refer to recommended assembly tools in Tool Section.



Flange Mount Cable Jack

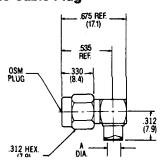


Cable	RG 402/U (.141)		RG 405/U (.085)		
Cable Dielectric	Solid PTFE		Solid PTFE		
Part Number	2006-5013-00		2006-5010)-00	
Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)	
Dim. B	.180	(4.6)	.120	(3.0)	
Dim. C	.560	(14.2)	.500	(12.7)	

Finish: Gold plate. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section.



Right Angle Cable Plug* DC-12.4 GHz



Cable	RG 402/U	(.141)	RG 405/U	(.085)
Cable Distoctric	Solid PTFE		Solid PTFE	
Part Number	2007-7941-02		2007-7985	-02
Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)

Finish: Housing is gold plated in all cases. Coupling nut is passivated stainless steel. For gold plated coupling nut, change the part number suffix from -02 to -00. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section. *Contact captivation per U.S. patent number 3,292,117.

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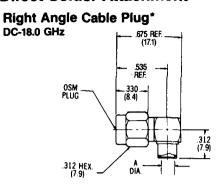
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For Semi-Rigid Cable

.085 and .141 Dia. • Direct Solder Attachment



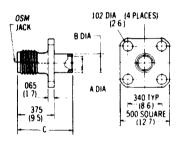


Cable	RG 402/U	(.141)	RG 405/U (.085)		
Cable Dielectric	Solid PTFE 2007-5054-02		Solid PTFE		
Part Number:			2007-5055-02		
Dim. A	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)	

Finish: Housing is gold plated in all cases. Coupling nut is passivated stainless steel. For gold plated coupling nut, change the part number suffix from -02 to -00. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section. *Contact captivation per U.S. patent number 3,292,117.



Flange Mount Cable Jack



Gable	RG 402/U (.141)		RG 405/U (.085)		
Gable Dielectric	Solid PTFE		Solid PTFE		
Part Number	2006-7941-00		2006-5012	2-00	
Dim: A	Inches .144 Min.	(mm) (3.7)	Inches .089 Min.	(mm) (2.3)	
Dim. B	.180	(4.6)	.120	(3.0)	
Dim. C	.560	.560 (14.2)		(12.7)	

Finish: Gold plate. Refer to Appendix for Coaxial Cable Characteristics. Refer to recommended assembly tools in Tool Section.