

The 7 mm Precision Hermaphrodite Coaxial Connectors are made available for laboratory instrumentation use. The construction is resonance free through 18.0 GHz.

An economical sexed version is also made available using threaded outer plug and jack configuration. This version will mate directly to the hermaphroditic types without degradation of performance. These are available to attach to .141, .250 and .325 inch diameter semi-rigid cables, and to RG-214/U and RG-142B/U flexible cables.

DESIGN AND CONSTRUCTION

The outer shell and coupling mechanisms are made of polished stainless steel. The inner contact is made of gold plated beryllium copper. A special resonance free to 18.0 GHz supporting bead is used to capture the center contact.

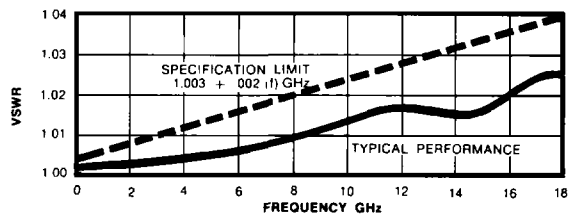
ASSEMBLY TOOL

Optional assembly tool, part number 7098-5001, may be ordered separately for assembly convenience.

ELECTRICAL PERFORMANCE

IMPEDANCE: 50 Ohms
FREQUENCY RANGE: 0-18 GHz
VSWR: 1.003 + .002 (f)GHz (see curve)

TEMPERATURE RANGE: -55°C to +85°C

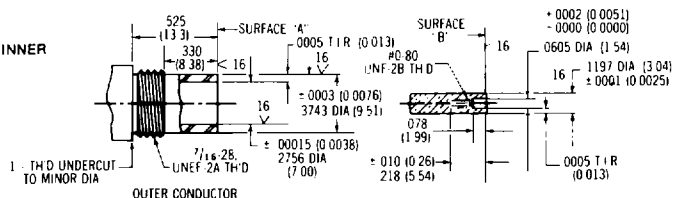


PREPARATION TO MATING SECTION:

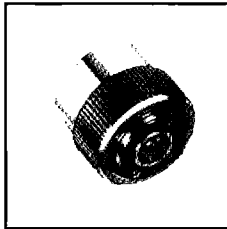
STRICT ADHERENCE TO THE DIMENSIONS SHOWN FOR OUTER AND INNER CONDUCTORS IS A REQUIREMENT FOR PRECISION PERFORMANCE.

NOTES:

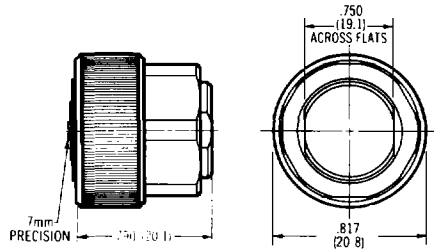
1. Surface "A" to be perpendicular to .2756 and .3743 diameters within .0005 T.I.R.
2. Surface "B" to be perpendicular to .1197 and .0605 diameters within .0005 T.I.R.
3. Surface "B" to be flush to .0005 below face of outer conductor surface "A"



7mm



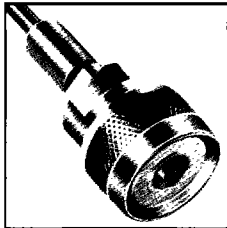
7mm Precision Connector (Hermaphrodite)



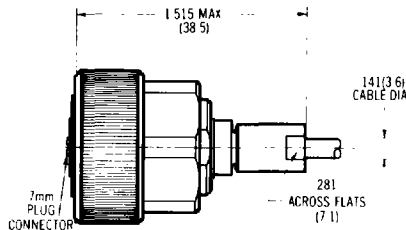
Part Number	7000-0000-00
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Finish: Polished stainless steel.

For Semi-Rigid Cable • Clamp Attachment

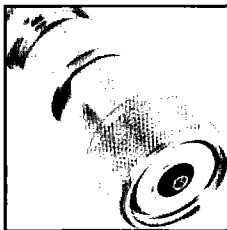


Straight Cable Plug

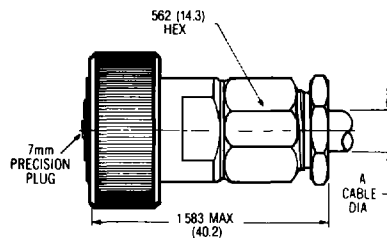


Cable	RG 402/U (.141)
Cable Dielectric	Solid TFE
Part Number	7301-5038-02

Finish: Polished stainless steel.
Flexible cable connectors available.
Refer to recommended assembly tools in Tool Section.



Straight Cable Plug



Cable	RG 401/U (.250)	.325
Cable Dielectric	Solid TFE	Solid TFE
Part Number	7301-7650-00	7301-7625-00
Dim. A	Inches 250	(mm) (6.3)
	Inches .325	(mm) (8.3)

Finish: Polished stainless steel.
Flexible cable connectors available.
Refer to recommended assembly tools in Tool Section.

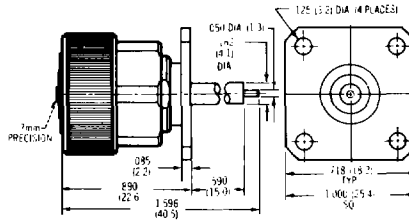
7mm

Panel Mount Receptacles

Panel Mount • Straight Terminal

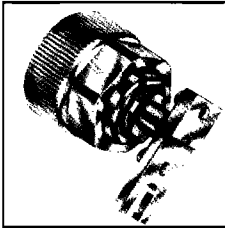


Flange Mount Receptacle

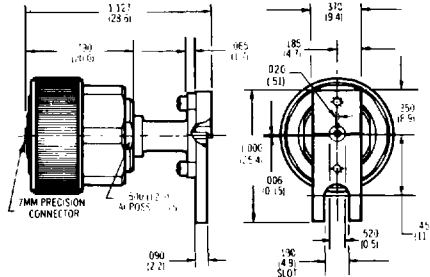


Part Number	7052-1201-00
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Finish: Polished stainless steel.



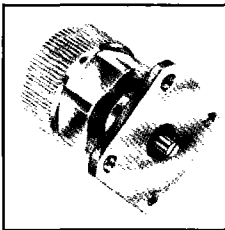
7mm Adapter to MIC Fixture



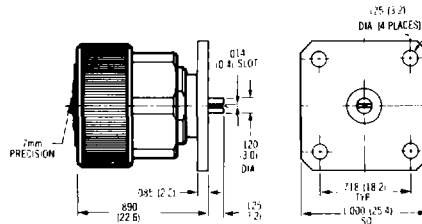
Part Number	7052-5013-00
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Finish: Polished stainless steel.

Panel Mount • Slot Terminal



Flange Mount Receptacle



Part Number	7052-5005-00
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Finish: Polished stainless steel.