

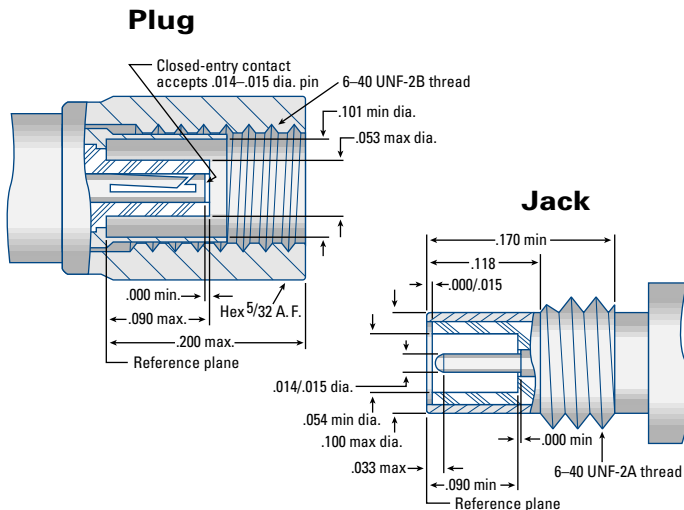
SSMC Series Cable Connectors

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SSMC Interface Dimensions



*These specifications change periodically with updates to MIL-PRF-39012 requirements. Contact factory for latest specifications.

Specifications (MIL-PRF-39012 as applicable)

Materials:

Jack mating ends, center contacts: Beryllium copper per ASTM-B-196, Condition HT.
Crimp sleeves: Seamless copper tube per ASTM-B-75, type C12000, temper: light anneal 050.
Other metal parts: Brass per ASTM-B-16, Alloy 360, 1/2 hard.
Insulators: Teflon (TFE) per ASTM-D-1710.

Finish:

Center contacts: Gold plated per current revision of MIL-PRF-39012*
Other metal parts: Gold plated to meet current MIL-PRF-39012 corrosion requirements.*

Electrical:

Impedance: 50Ω. **Frequency range:** DC-12.4 GHz.
Voltage Rating: 250VRMS @ sea level; 60 VRMS @ 70,000 ft.
Insulation Resistance: 1,000 megohms minimum.
Contact Resistance:
Center contact: Initial: 4.0 milliohms maximum;
after environmental test conditions: 6.0 milliohms maximum.
Outer contact: Initial: 1.0 milliohms maximum;
after environmental test conditions: 1.5 milliohms maximum.
Cable braid to body: Initial: 1.0 milliohms maximum; after environmental test conditions: N/A.
Corona level: 125V @70,000 ft. **RF highpot:** 400 VRMS @ 5 MHz.
RF leakage: -50 dB min @ 2-3 GHz. **Insertion loss:** .30 dB max @ 1.5 GHz.
VSWR:

Cable	Straight connector	Right angle connector
RG-178	1.20 + (.020 x F[GHz])	1.20 + (.030 x F[GHz])
RG-316	1.25 + (.020 x F[GHz])	1.25 + (.030 x F[GHz])
.085" semi-rigid	1.20 + (.015 x F[GHz])	1.20 + (.025 x F[GHz])

Mechanical:

Force to engage: 16 inch-ounces torque max.
Mating torque: 28-32 inch-ounces.
Coupling nut pull-off resistance: 25 pounds min.
Contact retention: 2 pounds min axial force.
Durability: 500 mating cycles.

Environmental (MIL-STD-202):

Temperature range: -65° C to +165° C. **Corrosion:** Method 101, condition B, 5% salt solution.
Vibration (Method 204): Condition D (20G).
Mechanical shock (Method 213): Condition B, 75G @ 6 ms @ 1/2 sine.



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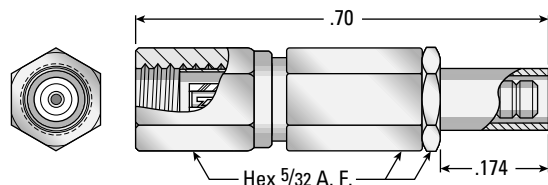
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SSMC Cable Connectors

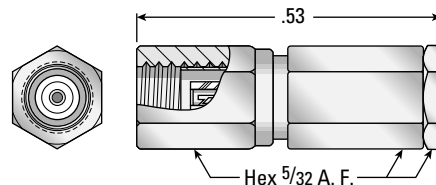
Straight Cable Plugs

Crimp type for flexible cable



AEP P/N
7002-1572-0XX*

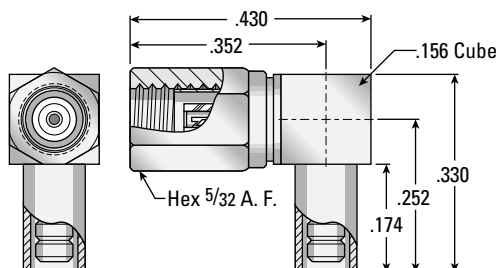
Solder type for semi-rigid cable



AEP P/N
7002-1542-0XX*

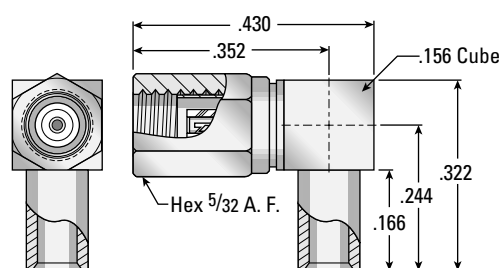
Right Angle Cable Plugs

Crimp type for flexible cable



AEP P/N
7105-1521-0XX*

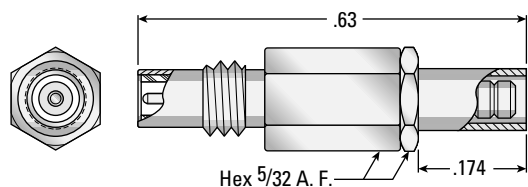
Solder type for semi-rigid cable



AEP P/N
7105-1561-0XX*

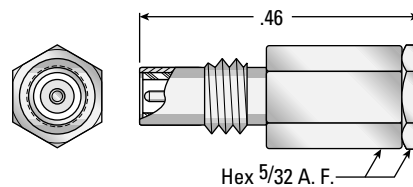
Straight Cable Jacks

Crimp type for flexible cable



AEP P/N
7101-1571-0XX*

Solder type for semi-rigid cable



AEP P/N
7101-1541-0XX*

***Substitute the appropriate cable group number for "XX" when ordering:**

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



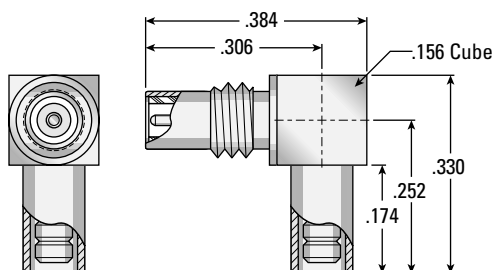
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SSMC Cable Connectors

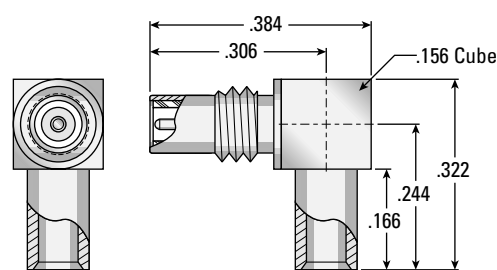
Right Angle Cable Jacks

Crimp type for flexible cable



AEP P/N
7141-1521-0XX*

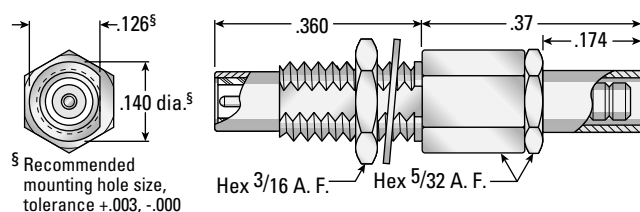
Solder type for semi-rigid cable



AEP P/N
7141-1561-0XX*

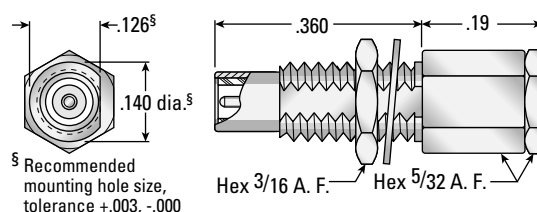
Straight Bulkhead Mounted Cable Jacks (.093" max panel thickness)

Crimp type for flexible cable



AEP P/N
7003-1572-0XX*

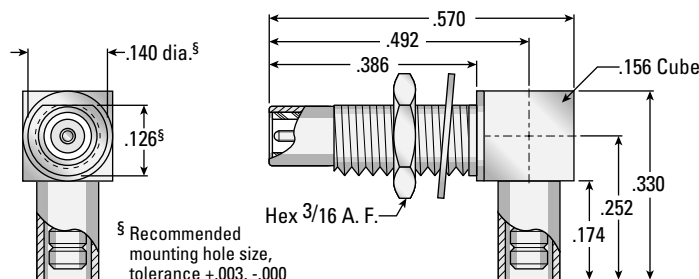
Solder type for semi-rigid cable



AEP P/N
7003-1542-0XX*

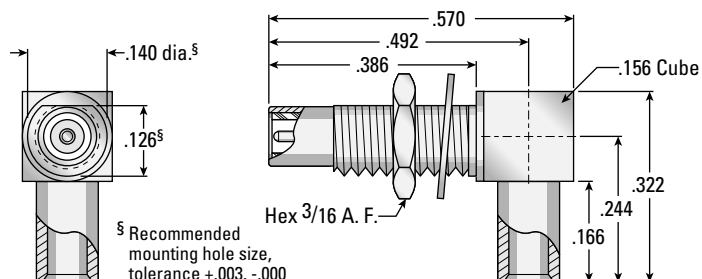
Right Angle Bulkhead Mounted Cable Jacks (.125" max panel thickness)

Crimp type for flexible cable



AEP P/N
7106-1521-0XX*

Solder type for semi-rigid cable



AEP P/N
7106-1561-0XX*

*Substitute the appropriate cable group number for "XX" when ordering:

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



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