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SSMC

PART NUMBER: 050-424-3196220



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Please use Customer Drawing for design activity: line art and other pictures are general representations of product dimensions.

**Product Family**

RF

Product Group

RF - SSMC

Market Application

Military

Component Type

Plugs and Receptacles

Gender

Plug

Mounting Style

Straight

Coaxial Cable Type

RG178/U, RG196/U

Engagement (Insertion) Force

0.11 Nm (16 in. oz.) torque maximum

Packaging Type

Each

Plating

Center contact: Gold. Other metal parts: Gold to meet the finish and corrosion requirements of MIL-C-39012.


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Product Description	Straight Plug
Cable Retention	When properly assembled to the compatible single braided coaxial cable, the retention is equal to the breaking strength of the cable.
Connector Durability	500 mating cycles minimum
Contact Current Rating	1.0 A DC maximum
Coupling Nut Retention	111 N (25 lbs.) minimum
Corrosion (salt spray)	MIL-STD-202, Method 101, test condition B, 5% salt solution
Insertion Loss	0.30 dB maximum @ 1.5 GHz
Insulation Resistance	1000 M ohms minimum
Locknut Torque	0.28 to 0.35 Nm (40 to 50 in. oz.)
Mating Torque	0.20 to 0.23 Nm (28 to 32 in. oz.)
RF Leakage	-50 dB minimum @ 2-3 GHz
Shock	MIL-STD-202, Method 213, Test Condition C, 100 G`s at 6 milliseconds 1/2 sine.
Temperature Rating	-65°C to 165°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B, except high temperature shall be 85°C. High temperature shall be 200°C for connectors using 200°C cables.
Vibration, High Frequency	MIL-STD-202, Method 204, test condition D (20 G`s)
Voltage Rating	At Sea Level = 250 V RMS. At 21 km (70K feet) = 60 V RMS. To 12.4 GHz or 80% of the upper cut-off frequency of the cable, whichever is lower.
Voltage Standing Wave Ratio (VSWR)	Applicable to 50 ohms cable only (Frequency [f] = GHz). For RG178/U, RG196/U series cable 1.20 +.02f
Impedance	50 ohms
Frequency Range 1	0 to 12.4 GHz Center contact = 4.0 m ohms maximum initial. 6.0 m ohms maximum after environment. Outer contact = 1.0 m ohms maximum initial. 1.5 m ohms maximum after environment. Braid to body = 1.0 m ohms maximum
Contact Resistance	Body, body components: Brass, half hard. Male and female contacts: Beryllium copper.

Material

Insulators: PTFE. Lockwashers: Phosphor bronze.
Crimp ferrule: Annealed copper alloy.

Contact Retention

8.9 N (2.0 lbs.) minimum axial force

For more information

Please Contact Cannon Sales Department .

Footnote

Dimension are shown in mm (inch). Dimensions
subject to change.



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