

MMCX: Specifications & Interface Dimensions

MATERIALS:

Plug Body, Body Components: Brass per ASTM B16
 Receptacle Body, Body Components: Brass per ASTM B16
 Male and Female Contacts: Beryllium Copper per ASTM B196
 Spring Ring: Beryllium Copper per ASTM B196
 Insulators: PTFE (Teflon) per ASTM B196
 Crimp Ferrule: Annealed Copper Alloy
 Finish:
 Center Contacts: Gold Plated per MIL-G-45204
 Other Metal Parts: Gold or Nickel Plated to Meet the Corrosion Requirements of CECC 22340

MATING CHARACTERISTICS

Engagement Forces: 3.4 lbs. Maximum
 Disengagement Forces: 1.4 lbs. Minimum
 Durability: 500 Cycles
 Contact Captivation: 2.3 lbs. Minimum

ELECTRICAL

Impedance: 50 Ohms Nominal
 Frequency Range: 0 to 6.0 GHz
 Insulation Resistance: 5000 Megohms Minimum
 Contact resistance: (Milliohms Maximum)
 Center Contact 5.0
 Outer Contact 2.5

Electrical Continued

Voltage Standing Wave Ratio:

	<u>Straight</u>	<u>Right Angle</u>
RG-196 Braided	1.20+ .025F	1.25+ .03F
RG-316 Braided	1.20+ .02F	1.25+ .03F

Dielectric Withstanding Voltage (DWV): @ Sea Level

Connectors For RG-196	500
Connectors For RG-316	750

Corona Level: Volts @ 70K Ft

Connectors For RG-196	190 Minimum
Connectors For RG-316	250 Minimum

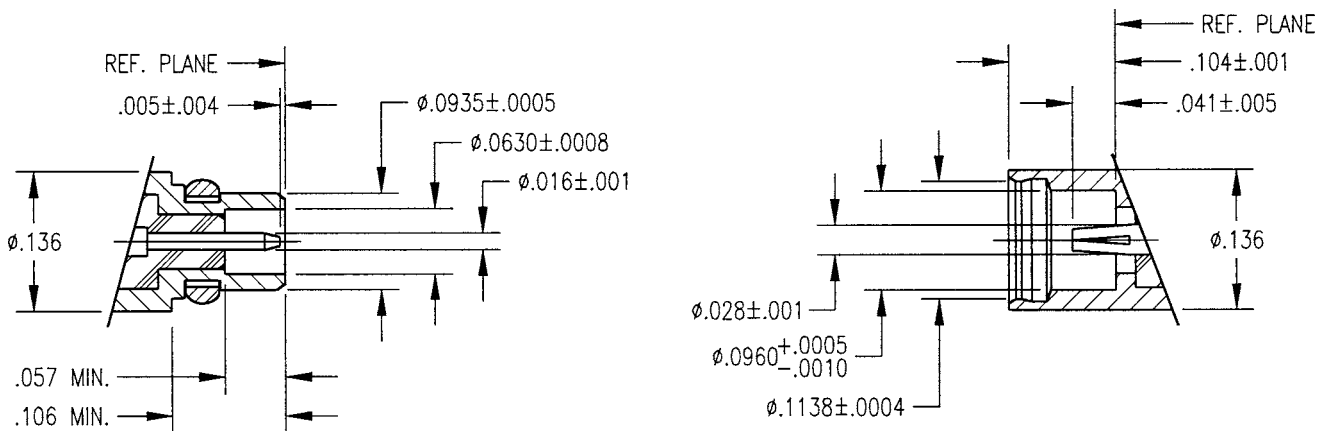
RF High Potential Withstanding Voltage
 Frequency: 5 MHz
 Leakage Current: N/A

Connectors For RG-196	400 VRMS
Connectors For RG-316	600 VRMS

R.F. Leakage: -55 dB Minimum @ 1 GHz

ENVIRONMENTAL

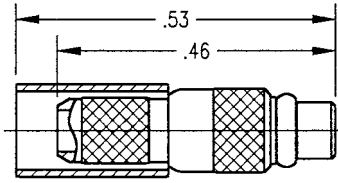
Temperature Rating: -65°C to +165°C
 Corrosion (Salt Spray): MIL-STD-202, Method 101, Condition B.
 Vibration, High Frequency: MIL-STD-202, Method 204, Condition D.
 Shock: MIL-STD-202, Method 102, Test Condition C.



Note: Dimensions shown in inches.

Winchester/Retconn

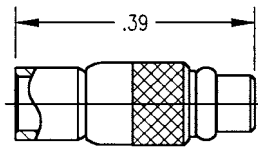
Straight Plug For Flexible Cable



Part Number	Cable
470-900-0360H	RG-178
470-900-0361H	RG-178 D.S.
470-900-0630H	RG-316
470-900-0631H	RG-316 D.S.
470-900-1000H	LMR 100

- See page 113 for cable assembly procedures: 9-17
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

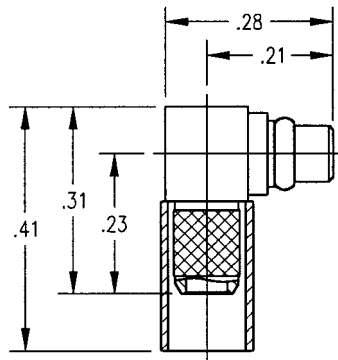
Straight Plug For Semi-rigid Cable



Part Number	Cable
470-500-0470H	.047" S.R.
470-500-0850H	.085" S.R.

- See page 93 for cable assembly procedures: 5-17
- Part number shown is for gold plated.

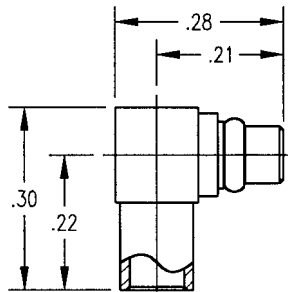
Right Angle Plug For Flexible Cable



Part Number	Cable
472-900-0360H	RG-178
472-900-0361H	RG-178 D.S.
472-900-0630H	RG-316
472-900-0631H	RG-316 D.S.
472-900-1000H	LMR 100

- See page 114 for cable assembly procedures: 9-18
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

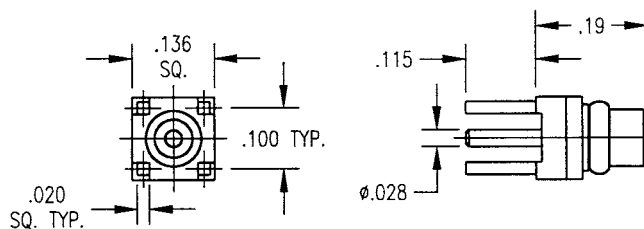
Right Angle Plug For Semi-rigid Cable



Part Number	Cable
472-900-0470H	.047" S.R.
472-500-0850H	.085" S.R.

- See page 94 for cable assembly procedures: 5-18
- Part number shown is for gold plated.

Straight P.C.B. Mount Plug

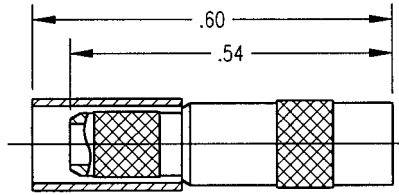


Part Number	Mounting Hole
470-040-0040H	No. 40B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Note: Dimensions shown in inches.

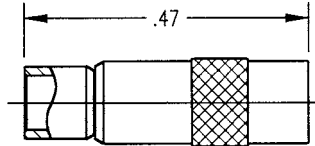
Straight Jack For Flexible Cable



Part Number	Cable
471-900-0360H	RG-178
471-900-0361H	RG-178 D.S.
471-900-0630H	RG-316
471-900-1000H	LMR 100

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

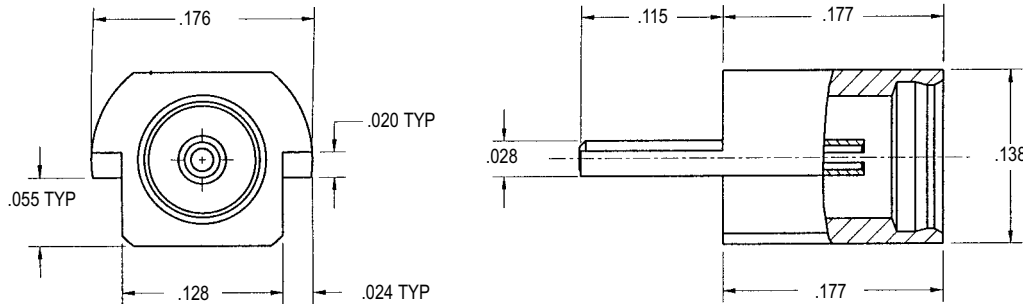
Straight Jack For Semi-rigid Cable



Part Number	Cable
471-500-0470H	.047" S.R.
471-500-0850H	.085" S.R.

- Part number shown is for gold plated.

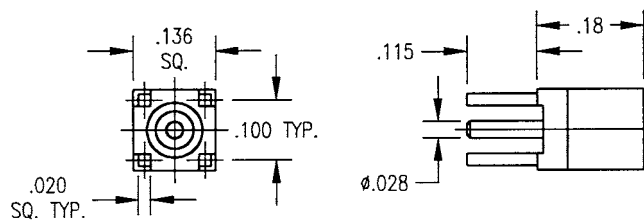
Edge Mount Jack



Part Number
471-086-0040H

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

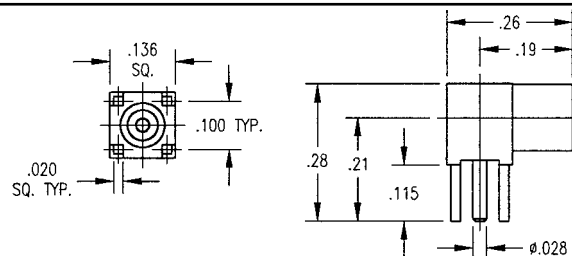
P.C.B. Mount Jack



Part Number	Mounting Hole
471-040-0040H	No. 40B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Right Angle P.C.B. Mount Jack



Part Number	Mounting Hole
473-040-0040H	No. 40B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.