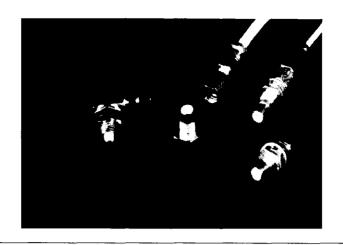
ConheX® Subminiature RF Connectors

ConheX® connectros are subminiature units built to meet or exceed the requirements of MIL-C-39012, Types SMB and SMC... used extensively in military, telecommunications and instrumentation for high-density radio frequency and microwave circuits up to 12.4 GHz. Because of their small size, these connectors utilize overlapping dielectrics to maintain electrical integrity at high frequencies. Screwon MIL type SMC, snap-on MIL type SMB and slide-on interfaces in both 50 and 75 Ohm impedances. Crimp and clamp type connections for braided coax cable. Clamp, solder and solder-clamp attachments for semi-rigid coax. Over 300 different connector types available.



Standard Data

ELECTRICAL

Impedance: 50 ohms and 75 ohms, nominal

Frequency Range: 0 to 12.4 GHz

Insulation Resistance: 1000 megohms min.

Voltage Standing Wave Ratio (VSWR)*

To 12.4 GHz or 80% of upper cutoff frequency of the cable, whichever is lower.

(F=GHz)		Mating Er	ngagement	
	Snap-On (SMB)		Screw-On (SMC)	
Cable	Straight	Rt. Angle	Straight	Rt. Angle
RG-196/U Series	1.30 + .04F	1.45 + .06F	1.25 + .04F	1.40 + .06F
RG-188/U Series	1.25 + .04F	1.35 + .04F	1.20 + .04F	1.30 + .04F

Dielectric Withstanding Voltage (DWV): VRMS at Sea Level 1500

50 Ω connectors for RG-188/U series cable

R.F. Leakage:

 Screw-On
 — 60 dB min. @ 2-3 GHz

 Snap-On and Slide-On
 — 55 dB min. @ 2-3 GHz

Insertion Loss: .25 dB max. freq. GHz tested @ 4 GHz

MATERIALS AND FINISHES

Body and Body Components and Male Contacts: Brass, half hard, per QQ-B-626, Alloy 360.

Female Contacts: Beryllium copper per QQ-C-530, heat treated per MIL-H-7199.

Insulators: TFE fluorocarbon per ASTM D 1710, Type I Grade 1.

Lockwashers: Phosphor bronze per QQ-B-750.

Clamp Sleeve: Nickel silver.

Crimp Ferrule: Annealed copper alloy per WW-T-799

Gaskets: Silicone rubber per ZZ-R-765, Class IIB, Grade 65-75.

Center Contacts (except for QPL items):

.000050 min. Gold per MIL-G-45204B Type I, Grade C, Class 1.

over .000005 Gold per MIL-G-45204B Type I, Grade A.

over .0001 min. nickel Per QQ-N-290.

Other Metal Parts: Gold plated to meet the finish and corrosion requirements of MIL-C-39012.

*Applicable to 50 ohm cables only

ENVIRONMENTAL

Temperature Rating: −65°C to +165°C

GENERAL

Hermetic Seal: Leakage of hermetically sealed connectors shall not exceed 1 x 10^{-5} cc/sec. of tracer gas at atmospheric pressure.

Contact Captivation: Unless otherwise specified, all connectors feature captivated contacts. When captivated, the contacts will withstand 4.0 lbs. minimum axial force.

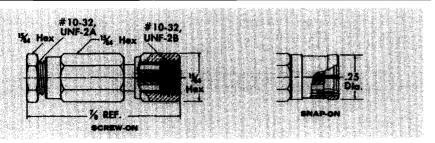
Contact Torque: N/A

Connector Durability: 500 cycles minimum.

Cable Retention:

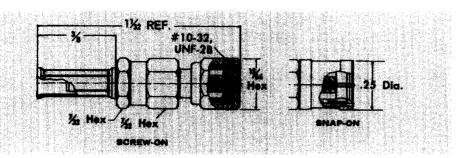
When properly assembled to the compatible braided coaxial cable, the retention is equal to the breaking strength of the cable.

Straight Plug for Braided Coax, Clamp Type



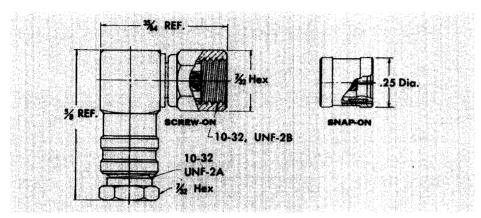
Part Number		
Cable	Screw-On	Snap-On
RG-188/U; 316/U	50-007-0000	51-007-0000
RG-178/U; 196/U	50-007-3196	51-007-3196

Straight Plug for Braided Coax, Crimp Type



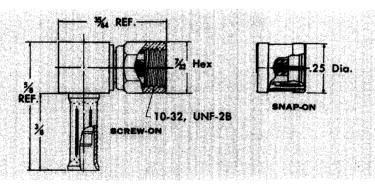
Part Number		
Cable	Screw-on	Snap-on
RG-188/U; 316/U	50-024-0000	51-024-0000
RG-178/U; 196/U	50-024-3196	51-024-3196

Right Angle Plug for Braided Coax, Clamp Type



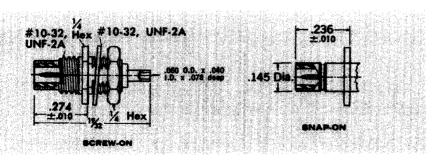
Part Number		
Cable	Screw-on	Snap-on
RG-188/U; 316/U	50-311-3188	51-311-3188
8G-178/U: 196/U	50-311-3196	51-311-3196

Right Angle Plug for Braided Coax, Crimp Type



Part Number		'
Cable	Screw-on	Snap-on
RG-188/U; 316/U	50-328-3188	51-328-3188
RG-178/U; 196/U	50-328-3196	51-328-3196

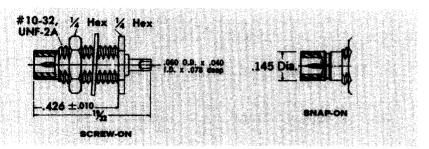
*Bulkhead Jack Receptacle, Front Mount, Solder Pot



Part I	Vumber
Screw-on	Snap-on
50-045-0000	51-045-0000

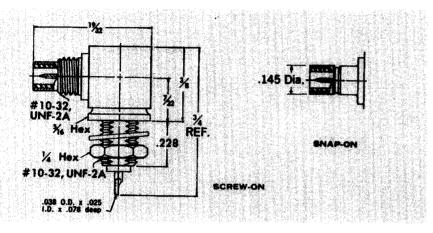
^{*}Designed for .093" max. Panel

*Bulkhead Jack Receptacle, Rear Mount, Solder Pot



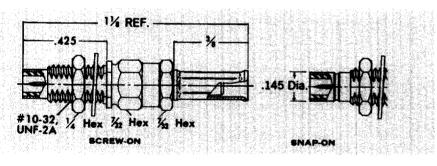
Part Numbers	
Screw-on	Snap-on
50-043-0000	51-043-0000

*Right Angle Bulkhead Jack Receptacle, Solder Pot



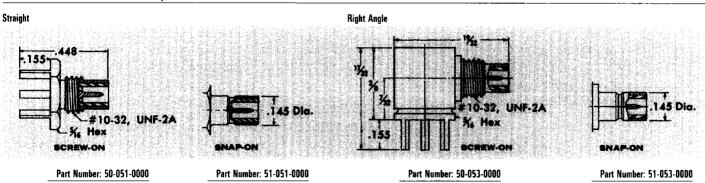
Part N	umbers
Screw-on	Snap-on
50-047-0000	51-047-0000

*Straight Bulkhead Jack for Braided Coax, Crimp Type



Part Numbers		
Cable	Screw-on	Snap-on
RG-188/U; 316/U	50-027-0000	51-027-0000
RG-178/U; 196/U	50-027-3196	51-027-3196

*Printed Circuit Jack Receptacle



*Designed for .093" max. panel