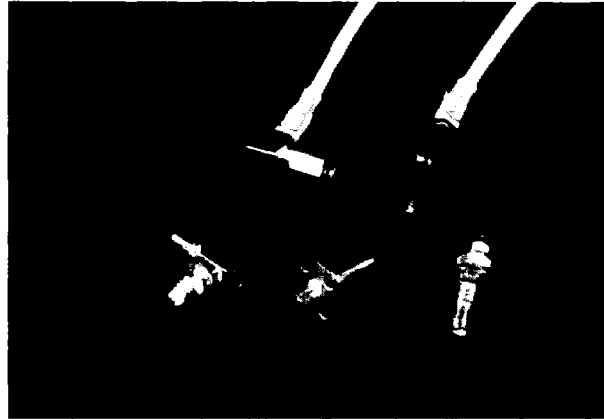


NanoheX[®] Microminiature RF Connectors

Where packaging size restrictions are quite severe, ITT Sealectro's NanoheX[®] microminiature connectors are often the only connector that will fit, yet they still meet or exceed the applicable requirements of MIL-C-39012. These 50 Ohm connectors can be used up to 12.4 GHz. Overlapping dielectrics maintain alignment and electrical integrity at high frequencies. Screw-on MIL type SSMC, snap-on MIL type SSMB and slide-on interfaces. Crimp-type connections for braided coaxial cable, using a precision outer ferrule crimp tool for optimum electrical performance. Solder and clamp-type connections for semi-rigid coax. Over thirty types available.



Standard Data

ELECTRICAL

Impedance: 50 ohms
 Frequency Range: 0 to 12.4 GHz
 Insulation Resistance: 1000 megohms min.
 Voltage Standing Wave Ratio (VSWR Maximum)*
 To 12.4 GHz or 80% of upper cutoff frequency of the cable, whichever is lower.

Cable	Mating Engagement			
	Screw-On		Snap-On	
	Straight	Rt. Angle	Straight	Rt. Angle
RG-196/U; 178/U	1.15 + .02F	1.15 + .03F	1.20 + .02F	1.20 + .03F
RG-188/U; 316/U	1.25 + .02F	1.25 + .03F	1.30 + .02F	1.30 + .03F
.056 Semi-Rigid	1.15 + .015F	1.15 + .025F	1.20 + .015F	1.20 + .025F
.085 Semi-Rigid	1.20 + .015F	1.20 + .025F	1.25 + .015F	1.25 + .025F

Dielectric Withstanding Voltage (DMV): 500 VRMS at Sea Level
 R.F. Leakage:
 Screw-On -50 dB min. @ 2-3 GHz
 Snap-On and Slide-On -40 dB min. @ 2-3 GHz
 Insertion Loss: .30 dB max. freq. GHz tested @ 1.5 GHz

MATERIALS AND FINISHES

Body and Body Components and Male Contacts: Brass, half hard, per QQ-B-626, Alloy 360.
 Center Contacts: Beryllium copper per QQ-C-530, heat treated per MIL-H-7199.
 Insulators: TFE fluorocarbon per ASTM D 1710, Type I Grade 1.
 Coupling Nuts: Beryllium copper per QQ-C-530.
 Lockwashers: Phosphor bronze per QQ-B-750.
 Crimp Ferrule: Annealed copper alloy per WW-T-799.
 Finish:
 Center Contacts:
 .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.

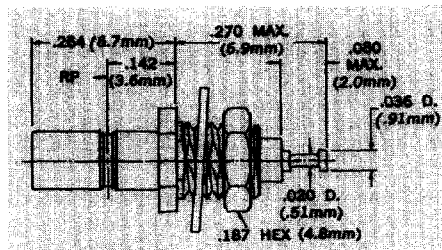
ENVIRONMENTAL

Temperature Rating: -65°C to +165°C

GENERAL

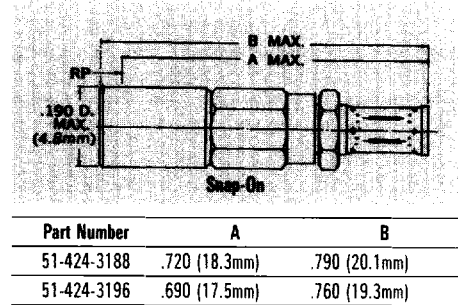
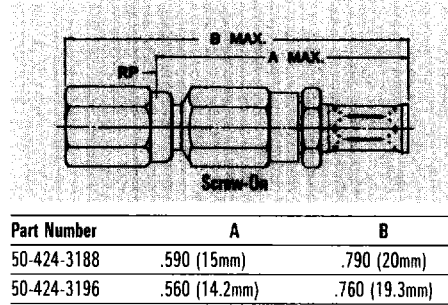
Contact Captivation: 2.0 lbs. min. axial force.
 Contact Torque: N/A
 Connector Durability: 500 cycles minimum.
 Cable Retention:
 When properly assembled to the compatible braided coaxial cable, the retention is equal to the breaking strength of the cable.

Bulkhead Plug Receptacle, Front Mount

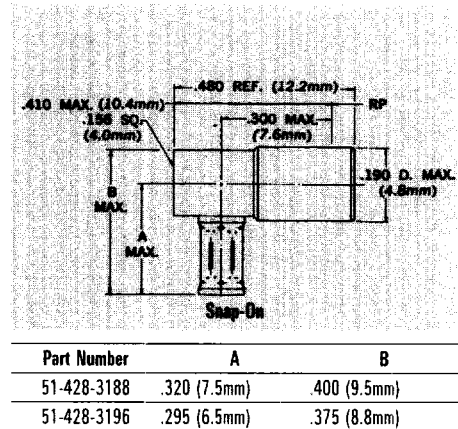
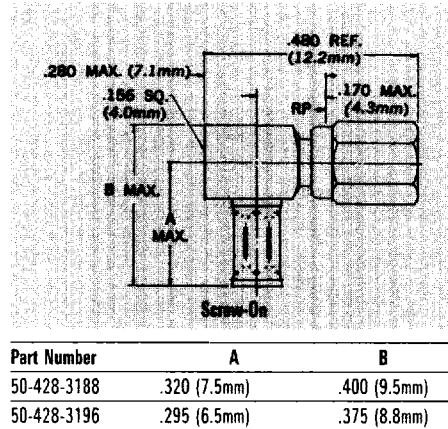


Part Number
 51-445-0000

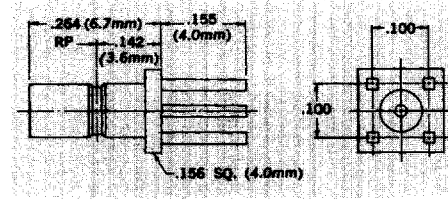
Straight Plug for Braided Coax, Crimp Type



Right Angle Plug for Braided Coax, Crimp Type



Straight Printed Circuit Jack Receptacle



Right Angle Printed Circuit Jack Receptacle

