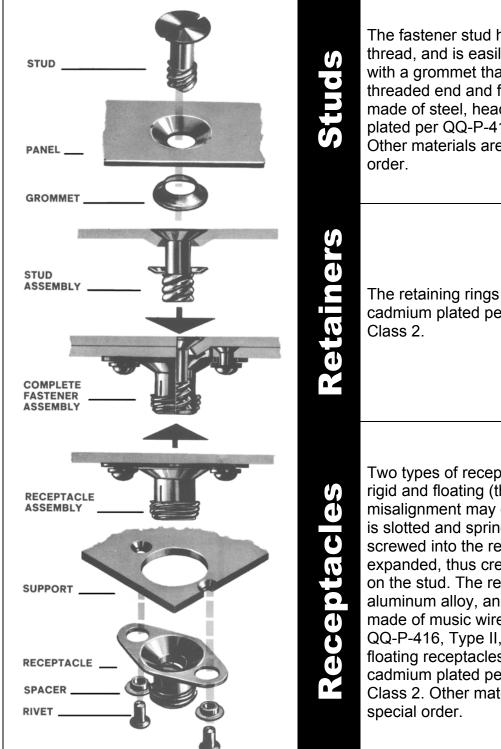




The DFCI UN-5700 Line stud has a special four-lead thread that operates in less than one turn. The receptacle provides a friction lock by expanding against a surrounding coil spring as the stud is engaged.

Rated locking torque is maintained over thousands of use cycles. These features are combined with the advantages of standard threaded fasteners; panel take-up, no sheet separation under load, and high tensile and shear ratings.





The fastener stud has a fast four lead thread, and is easily captivated in the panel with a grommet that is slipped over the threaded end and flattened down. Studs are made of steel, head treated and cadmium plated per QQ-P-416, Type 1, Class 3. Other materials are available on special order.

The retaining rings are made of steel cadmium plated per QQ-P-416, Type II, Class 2.

Two types of receptacles are available rigid and floating (the latter for use where misalignment may develop). The receptacle is slotted and spring encircled. As the stud is screwed into the receptacle, the spring is expanded, thus creating a constricting force on the stud. The receptacle is made of aluminum alloy, anodized, and the spring is made of music wire, cadmium plated per QQ-P-416, Type II, Class 2. Spacers for all floating receptacles are made of steel, cadmium plated per QQ-P-416, Type II, Class 2. Other materials are available on special order.



				Co	mpone	ents		
Hex Head Type 578x-20			S	Oval Hea traight S Type 571x	Slot	Flush Head, Straight Slot Type 576x-20 (Sizes 4, 5)	Hex Type	h Head, Recess 576x-S20 Size 3)
	h						K	
C	-			-			57	
Studs are avail				-	ush-Slotted Heads	· .	cial order: Oval He	_
		Thread	d Majo	r Diameter	Locking Torque	Rated Tensile	Locking Torque	_
			d Majo	-		· .		_
		Thread	d Majo h)	r Diameter	Locking Torque	Rated Tensile and Shear	Locking Torque Retention	_
	Size	Thread (incl	d Majo h) 8	r Diameter (mm)	Locking Torque (inIb.)	Rated Tensile and Shear (Ib.)	Locking Torque Retention (cycles)	_

Retaining Ring Type 5723-A and 5725-166-C3Y (for size 3)



Retaining Rings are slipped around the Stud and squeezed closed with pliers. **Rigid Receptacle** Floating Receptacle Press Fit Receptacle Types 5718 and 5718-A Types 5718-F and 5718-FA Type 5718-FP Press-in receptacles are installed by Rigid receptacles are riveted solidly to Floating receptacles have oversize pressing into a round hole. their support. Type 5718-A is used for rivet holes that permit movement Receptacles float to accept panel Size 3 and 4 studs. Type 5718 is used around rivet spacers within the holes. misalignment. Type 5718-FP is for size 5 studs only. Supplied with 2 spacers. available for size 3 and 4 studs.



Selection Procedure

- 1. Verify that the Mechanical Properties are suitable for the application.
- 2. Select a stud head style. For example: A size 3 Oval Head Stud would be 5713-20
- 3. Select a stud retainer and part number. **Example:** The Retaining Ring would be **5725-166-C3Y**
- 4. Calculate the Total Material Thickness as described below.
- 5. Using the table on the stud page, find the Total Material Thickness range that applies to your calculated Total Material Thickness. The G needed for the Stud Part Number is stated to the right of the applicable Total Material Thickness range. For example: For the size 3 with a Total Material Thickness of .175" (4.45 mm), the G needed would be -20.
- 6. Combine the stud head style and **G** for a complete part number. **For example:** The complete part number for our example would be **5713-20-20-C2C**.
- 7. Select either a rigid or floating receptacle. **For example:** The size 3 rigid receptacle is **5718**-**A3-ACNC**.

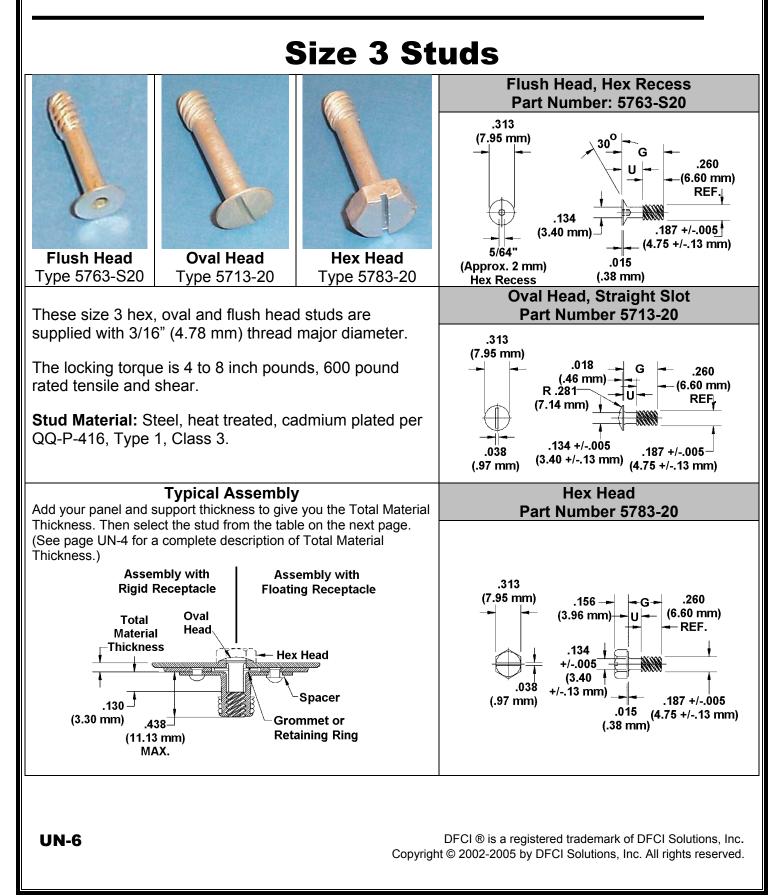
Finding the Total Material Thickness (TMT)

The Total Material Thickness (TMT) is the sum of the panel thickness, support thickness, and any gap thickness that may be present. The panel thickness is the thickness of the material that contains the stud. Support thickness is the thickness of the material to which the receptacle is mounted. Gap thickness is the thickness of any gasket, spacing, or other material that prevents the panel and support from being in direct contact with each other. All stud retainers drop into the support area and do not add a gap.



This page intentionally blank.







Size 3 Sizing Tables (inch)

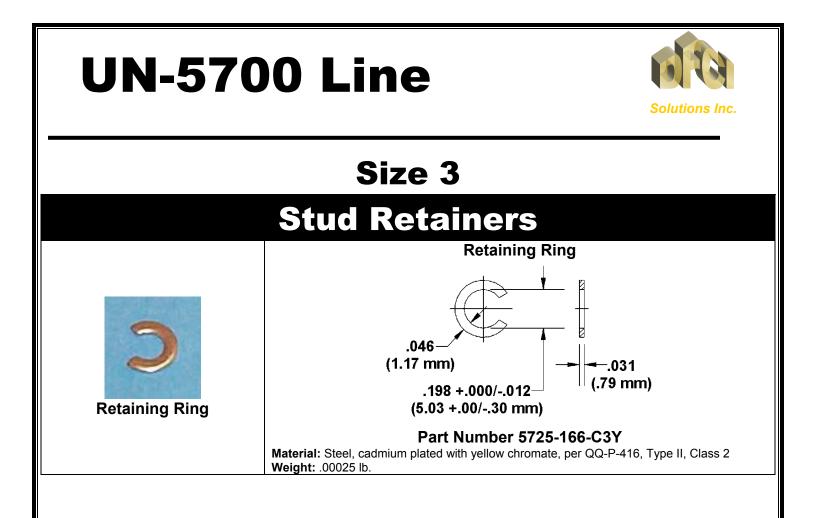
Total Material	G	Stud Shank Dimensions		Stud Weight (Lb. Each)			
Thickness	0	G DIM	U DIM	Flush 5763-S20	Oval 5713-20	Hex 5783-20	
.000" to .050"	-5	.420"	.160"		.00304	.0060	
.051" to .100"	-10	.470"	.210"		.00324	.0062	
.101" to .150"	-15	.520"	.260"	.00308	.00344	.0064	
.151" to .200"	-20	.570"	.310"	.00328	.00364	.0066	
.201" to .250"	-25	.620"	.360"	.00348	.00384	.0068	
.251" to .300"	-30	.670"	.410"	.00368	.00404	.0070	
.301" to .350"	-35	.720"	.460"	.00388	.00424	.0072	
.351" to .400"	-40	.770"	.510"	.00408	.00444	.0074	

Note: A thread lubricant suitable for the fastener's installed environment is recommended. **For part number 5763-S20-15**, a minimum panel thickness of .125" is required.

(mm)

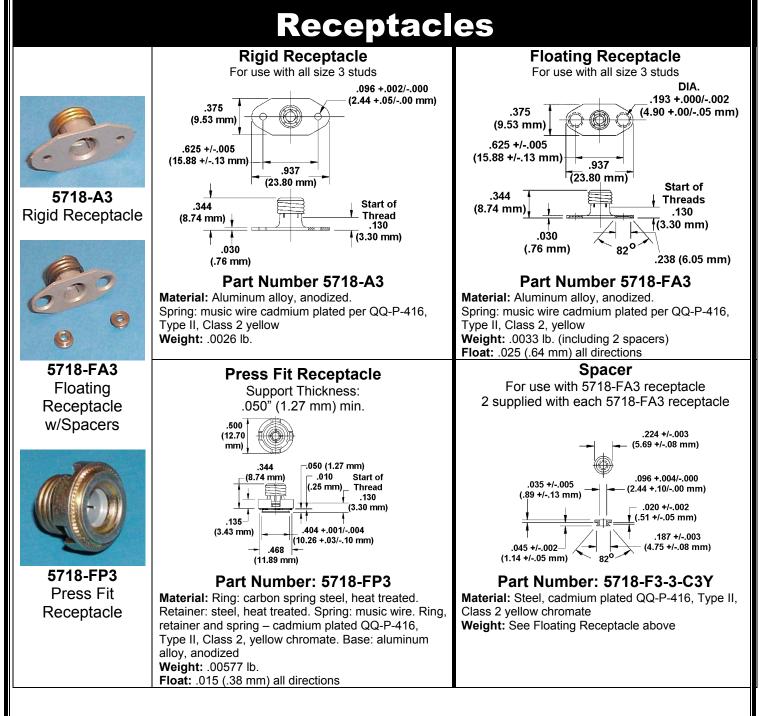
Total Material	G	Stud Shank Dimensions		Stud Weight (Lb. Each)			
Thickness	G	G DIM	U DIM	Flush 5763-S20	Oval 5713-20	Hex 5783-20	
1.00 – 1.27	-5	10.67	1.06		.00304	.0060	
1.30 – 2.54	-10	11.94	5.33		.00324	.0062	
2.57 – 3.81	-15	13.21	6.60	.00308	.00344	.0064	
3.84 – 5.08	-20	14.48	7.87	.00328	.00364	.0066	
5.11 – 6.35	-25	15.75	9.14	.00348	.00384	.0068	
6.38 – 7.62	-30	17.02	10.41	.00368	.00404	.0070	
7.65 – 8.89	-35	18.29	10.92	.00388	.00424	.0072	
8.92 – 10.16	-40	19.56	12.95	.00408	.00444	.0074	

Note: A thread lubricant suitable for the fastener's installed environment is recommended. **For part number 5763-S20-15**, a minimum panel thickness of 3.18 mm is required.

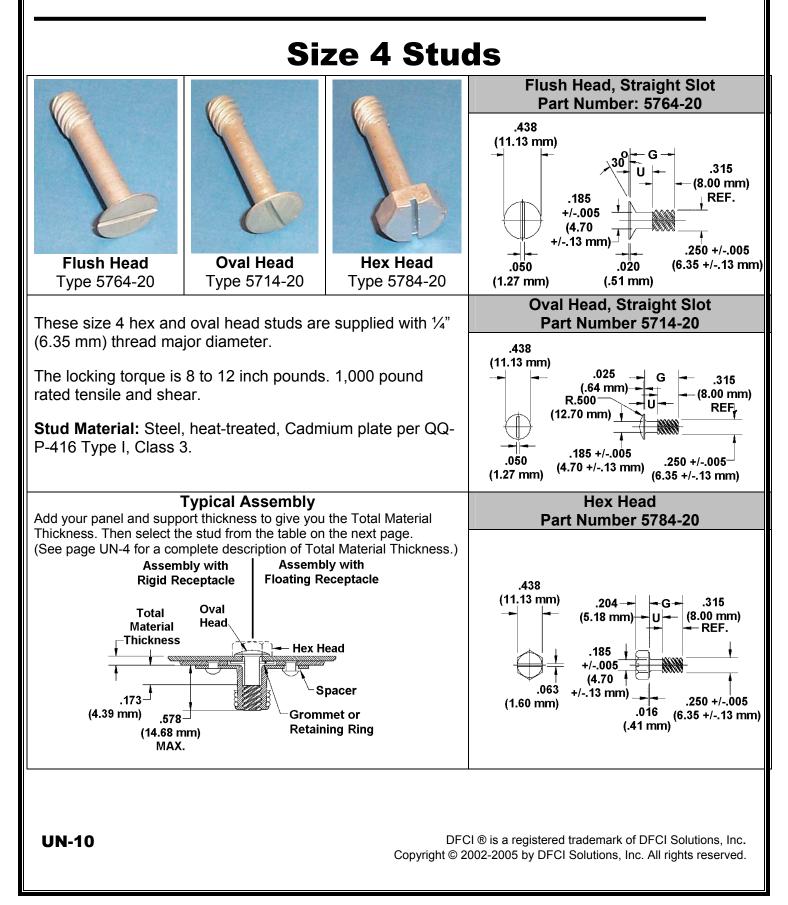




Size 3









Size 4 Sizing Tables (inch)

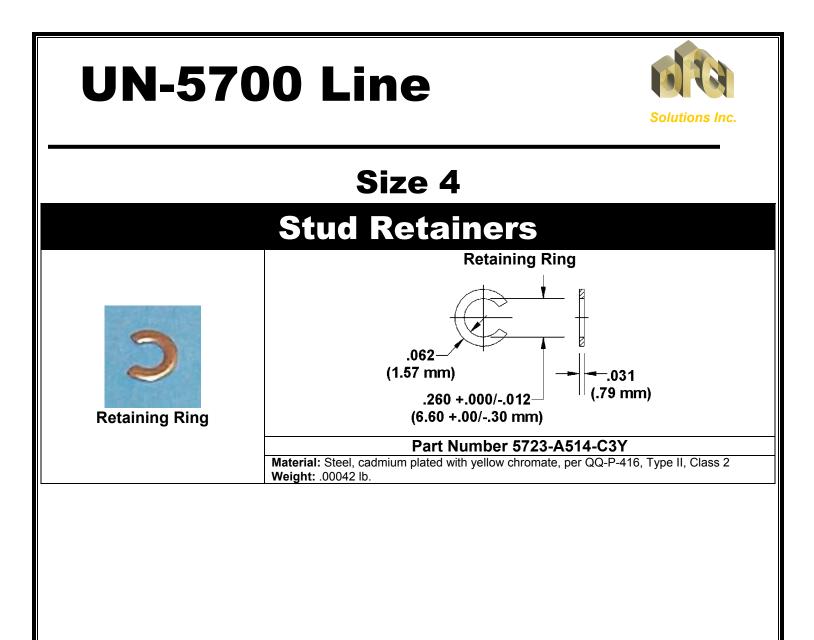
Total Material	G	Stud Shank Dimensions		Stud Weight (Lb. Each)			
Thickness	0	G DIM	U DIM	Flush 5764-20	Oval 5714-20	Hex 5784-20	
.000" to .100"	-10	.565"	.250"		.00675	.01392	
.101" to .200"	-20	.665"	.350"	.00751	.00752	.01469	
.201" to .300"	-30	.765"	.450"	.00828	.00829	.01546	
.301" to .400"	-40	.865"	.550"	.00906	.00906	.01623	
.401" to .500"	-50	.965"	.650"	.00983	.00983	.01700	
.501" to .600"	-60	1.065"	.750"	.01060	.01060	.01777	
.601" to .700"	-70	1.165"	.850"	.01137	.01137	.01854	
.701" to .800"	-80	1.265"	.950"	.01214	.01214	.01931	

Note: A thread lubricant suitable for the fastener's installed environment is recommended. **For part number 5764-20-20-C2C**, a minimum panel thickness of .150" is required.

(mm)

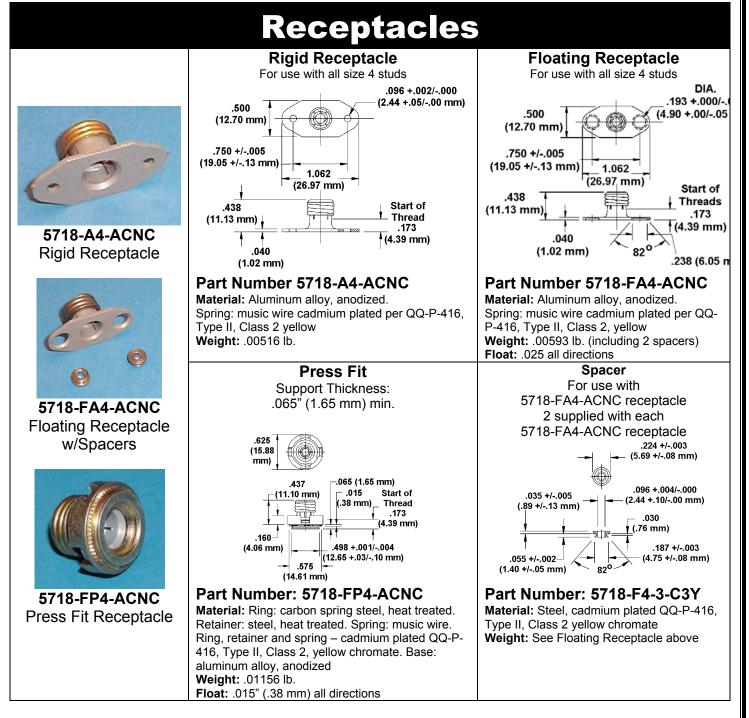
Total Material	G	Stud Shank Dimensions		Stud Weight (Lb. Each)			
Thickness	0	G DIM	U DIM	Flush 5764-20	Oval 5714-20	Hex 5784-20	
0.00 - 2.54	-10	14.35	6.35		.00675	.01392	
2.57 – 5.08	-20	16.89	8.89	.00751	.00752	.01469	
5.11 – 7.62	-30	19.43	11.43	.00828	.00829	.01546	
7.65 – 10.16	-40	21.97	13.97	.00906	.00906	.01623	
10.19 – 12.70	-50	24.51	16.51	.00983	.00983	.01700	
12.73 – 15.24	-60	27.05	19.05	.01060	.01060	.01777	
15.27 – 17.78	-70	29.59	21.59	.01137	.01137	.01854	
17.81 – 20.32	-80	32.13	24.13	.01214	.01214	.01931	

Note: A thread lubricant suitable for the fastener's installed environment is recommended. **For part number 5764-20-20-C2C**, a minimum panel thickness of 3.81 mm is required.

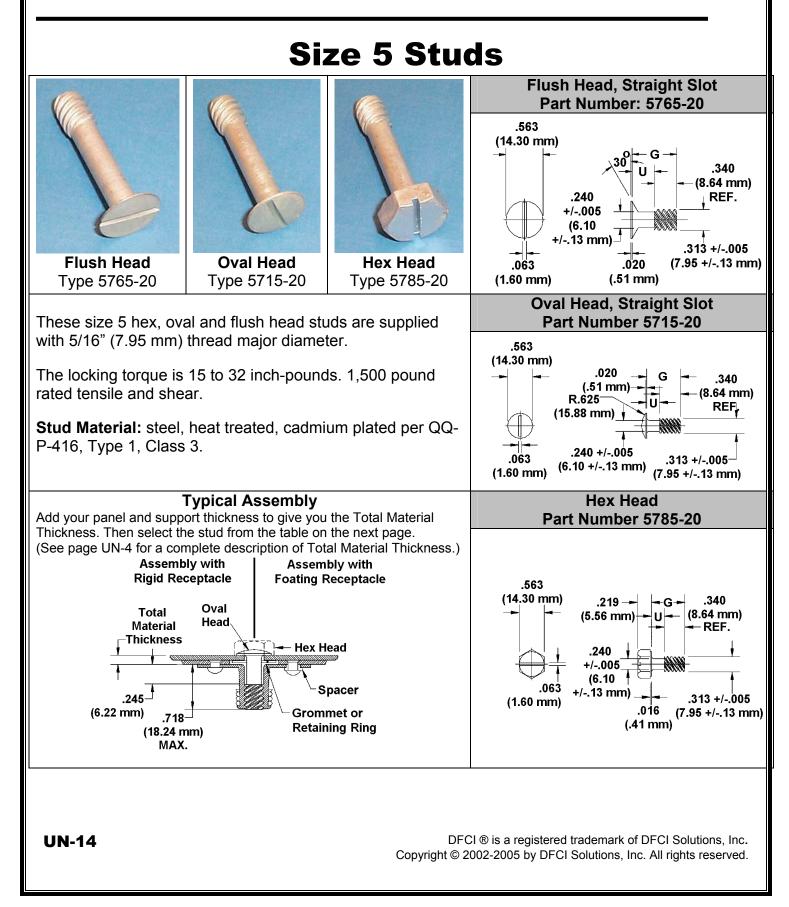




Size 4









Size 5 Sizing Tables (inch)

Total Material	G	Stud Shank Dimensions		Stud Weight (Lb. Each)			
Thickness	0	G DIM	U DIM	Flush 5765-20	Oval 5715-20	Hex 5785-20	
.000" to .100"	-10	.700"	.360"	.01311	.01335	.02555	
.101" to .200"	-20	.800"	.460"	.01443	.01467	.02687	
.201" to .300"	-30	.900"	.560"	.01575	.01599	.02819	
.301" to .400"	-40	1.000"	.660"	.01707	.01731	.02951	
.401" to .500"	-50	1.100"	.760"	.01839	.01863	.03083	
.501" to .600"	-60	1.200"	.860"	.01971	.01995	.03215	
.601" to .700"	-70	1.300"	.960"	.02103	.02127	.03479	
.701" to .800"	-80	1.400"	1.060"	.02235	.02259	.03611	

Note: A thread lubricant suitable for the fastener's installed environment is recommended.

(mm)

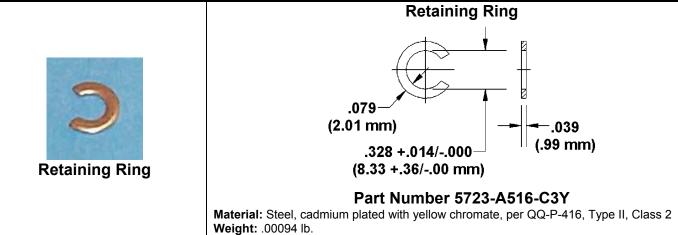
Total Material	G	Stud Shank Dimensions		Stud Weight (Lb. Each)			
Thickness	0	G DIM	U DIM	Flush 5765-20	Oval 5715-20	Hex 5785-20	
0.00 - 2.54	-10	17.78	9.14	.01311	.01335	.02555	
2.57 - 5.08	-20	20.32	11.68	.01443	.01467	.02687	
5.11 – 7.62	-30	22.86	14.22	.01575	.01599	.02819	
7.65 – 10.16	-40	25.40	16.76	.01707	.01731	.02951	
10.19 – 12.70	-50	27.94	19.30	.01839	.01863	.03083	
12.73 – 15.24	-60	30.48	21.84	.01971	.01995	.03215	
15.27 – 17.78	-70	33.02	24.38	.02103	.02127	.03479	
17.81 – 20.32	-80	35.56	26.92	.02235	.02259	.03611	

Note: A thread lubricant suitable for the fastener's installed environment is recommended.



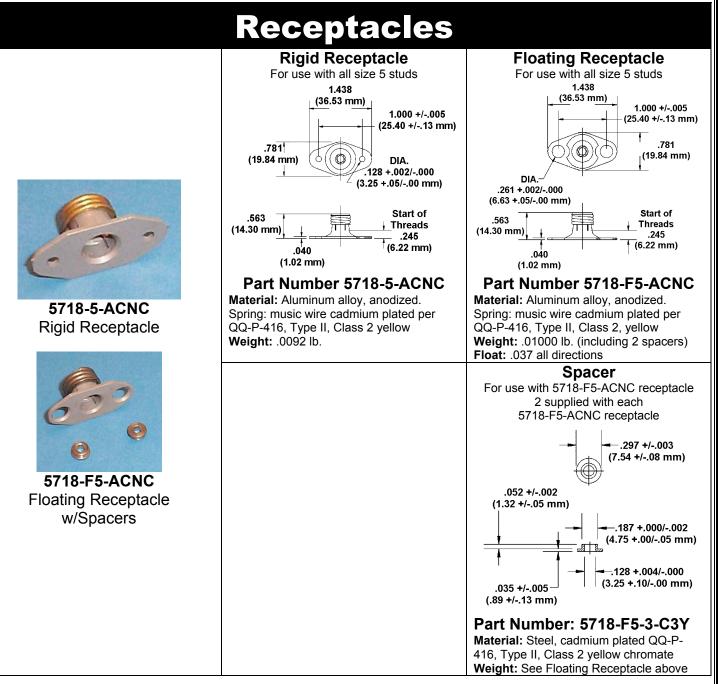
Size 5

Stud Retainers





Size 5



DFCI ® is a registered trademark of DFCI Solutions, Inc. Copyright © 2002-2005 by DFCI Solutions, Inc. All rights reserved.

UN-17

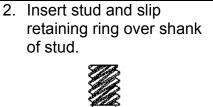


Stud Installation

Retaining Ring All Head Styles

1. Drill hole in panel

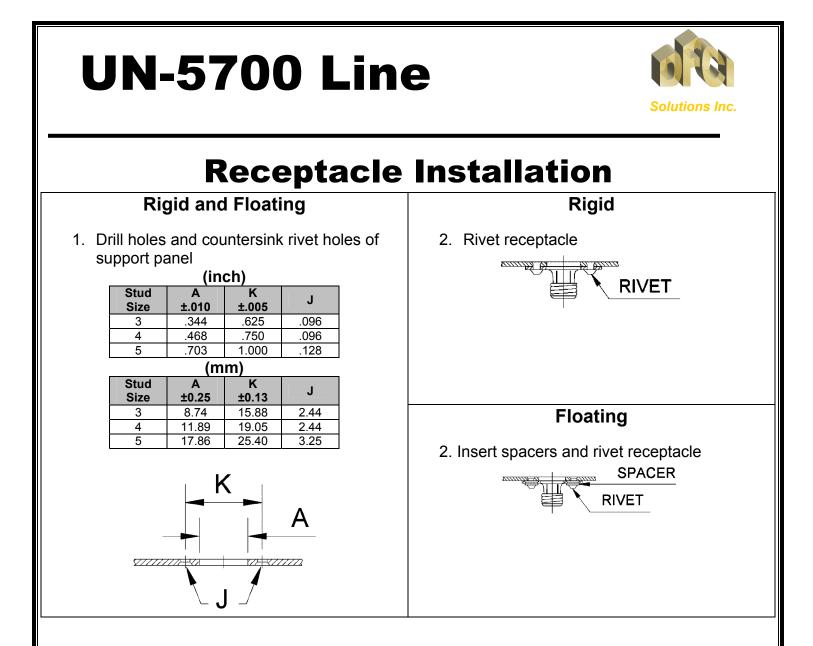
Stud Size	Hole Diameter			
Sluu Size	(inch)	(mm) 4.78 6.35		
3	3/16"	4.78		
4	1/4"	6.35		
5	5/16"	7.95		







This page intentionally blank.

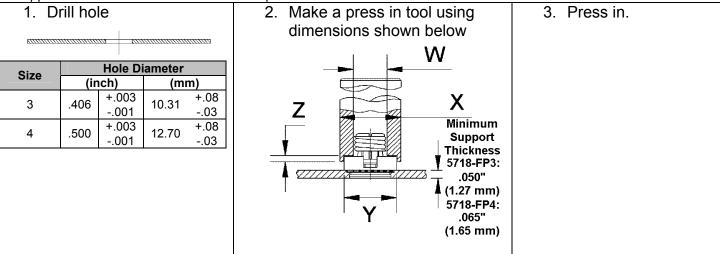




Receptacle Installation

Press Fit

Type GH grommets may be used to retain studs when the support thickness exceeds .070" (1.78 mm) for 5718-FP3 and .094" (2.39 mm) for 5718-FP4 receptacles. For thinner supports, the retaining ring must be used. The retaining ring should be slipped around stud shaft and closed with pliers in undercut section of stud.



			Tool D	imensio	ns			
Part Number		w	>	(Y	+.005 (0.13 mm) 000 (0.00 mm)	Z	
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)
5718-FP3	.344 x .625 deep	9.58 x 15.88 deep	.625	15.88	.505	12.88	.125	3.18
5718-FP4	.453 x .625 deep	11.51 x 15.88 deep	.750	19.05	.630	16.00	.156	3.96



This page intentionally blank.