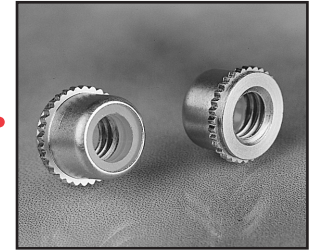


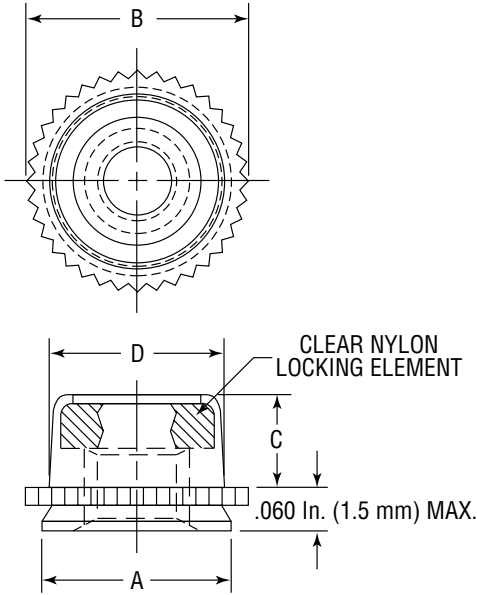


# Self-Clinching Top Collar Lock Nuts

## Series CPL & CPLC



CPL top collar lock nuts combine reliable self-clinching mounting with a reusable non-metallic thread locking element.



Series	Material	Finish	Locking Element
CPL	Heat-treated Carbon Steel	Zinc* Clear	Clear Nylon
CPLC	300 Series Stainless Steel	Passivated ASTM A380	Clear Nylon

\*Spec. ASTM B633-85

Thread: Class 2B, MIL-S-7742; (6H ISO Metric).

Use in: Material with Rockwell Hardness of B-70 or less.

### Note 1 — Installation Tips

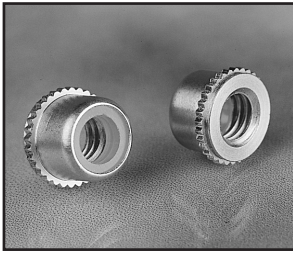
**Thin Sheets** — May be installed in panel thickness of .040 to .059 (1mm to 1.5mm) if fastener is partially installed in sheet. The knurled collar must be raised above sheet by the difference in thickness from .059 (1.5mm).

**Thick Sheets** — If fastener is installed in sheet greater than .070 (1.7mm), knurled collar may crack if mating screw is tightened above maximum torque limit.

### Dimensions & Specifications

	Thread Size	Part Number		Thickness Range	See Note 1 	A Max.	B Max.	C Max.	D Max.	Min.	
		Carbon Steel	Stainless Steel								
INCH (in.)	#4-40	CPL440	CPLC440	.059-.070		.234	.233	.28	.130	.216	.132
	#6-32	CPL632	CPLC632	.059-.070		.265	.264	.31	.130	.246	.158
	#8-32	CPL832	CPLC832	.059-.070		.297	.296	.34	.155	.278	.184
	#10-32	CPL1032	CPLC1032	.059-.070		.312	.311	.35	.165	.292	.210
METRIC (mm)	M3 x 0.5	CPLM3	CPLCM3	1.5-1.78		6.0	5.97	7.1	3.6	5.5	4.3
	M4 x 0.7	CPLM4	CPLCM4	1.5-1.78		7.5	7.47	8.6	4.2	7.0	5.6
	M5 x 0.8	CPLM5	CPLCM5	1.5-1.78		8.0	7.97	8.9	4.5	7.5	6.4

Continued on next page.



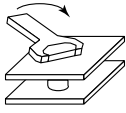
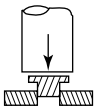

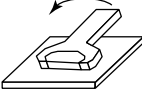
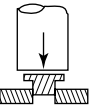

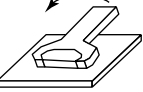
# Self-Clinching Top Collar Lock Nuts

## Series CPL & CPLC



Continued from previous page.

### Installation & Performance Data

	.048 in. Cold-rolled Steel				.060 in. Cold-rolled Steel					
	 Max. Tightening Torque (in.-lbs.)	 Installation Force (tons)	 Pushout (lbs.)	 Torque-out (in.-lbs.)	 Installation Force (tons)	 Pushout (lbs.)	 Torque-out (in.-lbs.)			
INCH (in.)	#4-40	9	1-2	230	20	1-2	260	20		
	#6-32	12	1-2	270	30	1-2	290	30		
	#8-32	19	1-2	270	60	1-2	290	60		
	#10-32	26	1-2	300	70	1-2	350	70		
		.060 in. 5052H34 Aluminum				.040 in. 5052H34 Aluminum				
		Max. Tightening Torque (in.-lbs.)	Installation Force (tons)	Pushout (lbs.)	Torque-out (in.-lbs.)	Installation Force (tons)	Pushout (lbs.)	Torque-out (in.-lbs.)		
		#4-40	9	1	225	20	1	150	20	
		#6-32	12	1	285	30	1	180	25	
		#8-32	19	1	290	60	1	180	28	
		#10-32	26	1	300	70	1	180	40	
		METRIC (mm)	1.5mm Cold-rolled Steel				1.2mm Cold-rolled Steel			
			Max. Tightening Torque (N•m)	Installation Force (kN)	Pushout (N)	Torque-out (N•m)	Installation Force (kN)	Pushout (N)	Torque-out (N•m)	
	M3		1.1	13.34	1156	2.2	13.34	1000	2.2	
	M4		2.2	13.34	1290	6.7	13.34	1200	6.7	
	M5		3.1	13.34	1557	7.9	13.34	1380	7.9	
			1.5mm 5052H34 Aluminum				1.0mm 5052H34 Aluminum			
Max. Tightening Torque (N•m)			Installation Force (kN)	Pushout (N)	Torque-out (N•m)	Installation Force (kN)	Pushout (N)	Torque-out (N•m)		
M3			1.1	8.90	1000	2.2	6.67	710	2.2	
M4			2.2	8.90	1290	6.7	6.67	800	3.1	
M5			3.1	8.90	1330	7.9	6.67	800	4.5	