

## Digi-Key® Spacer Kit

Components included are 10 each of part numbers marked with •. 150 components. Price includes convenient divided plastic box with bin guide for easy storage and quick access.



J200-KIT-ND Digi-Key® Spacer Kit ..... \$29.95

Thread Size	Clearance	Dim. L Inch (mm)	Digi-Key Part No.	10	100	250
<b>Round Tubular Spacers</b>						
—	4(.115" / 2.92mm)	.187 (4.75)	J166-ND	1.35	12.15	28.35
—	4(.115" / 2.92mm)	.250 (6.35)	J167-ND•	1.45	13.05	30.45
—	6(.140" / 3.56mm)	.125 (3.18)	J168-ND•	1.45	13.05	30.45
—	6(.140" / 3.56mm)	.250 (6.35)	J169-ND•	1.45	13.05	30.45
<b>Hex Threaded Male/Female Spacers</b>						
4-40	—	.250 (6.35)	J210-ND	3.75	33.75	78.75
4-40	—	.375 (9.52)	J211-ND	4.08	36.68	85.58
6-32	—	.500 (12.70)	J212-ND	4.08	36.68	85.58
6-32	—	.625 (15.88)	J213-ND	4.25	38.25	89.25
6-32	—	.750 (19.05)	J214-ND	4.25	38.25	89.25
6-32	—	.875 (22.23)	J215-ND	4.25	38.25	89.25
6-32	—	1.000 (25.40)	J216-ND	4.48	40.28	93.98
6-32	—	1.250 (31.75)	J217-ND	4.73	42.53	99.23
6-32	—	1.500 (38.10)	J218-ND	6.33	56.93	132.83
<b>Round Threaded Spacers</b>						
4-40	—	.375 (9.52)	J170-ND•	1.53	13.73	32.03
4-40	—	.500 (12.70)	J241-ND	2.40	21.60	50.40
4-40	—	.625 (15.88)	J242-ND	4.00	36.00	84.00
4-40	—	.750 (19.05)	J240-ND	3.60	32.40	75.60
4-40	—	.875 (22.23)	J171-ND	3.75	33.75	78.75
4-40	—	1.000 (25.40)	J243-ND	3.85	34.65	80.85
4-40	—	1.250 (31.75)	J172-ND	3.35	30.15	70.35
6-32	—	.500 (12.70)	J244-ND	2.40	21.60	50.40
6-32	—	.625 (15.88)	J173-ND	4.00	36.00	84.00
6-32	—	.750 (19.05)	J245-ND	3.60	32.40	75.60
6-32	—	.875 (22.23)	J246-ND	3.75	33.75	78.75
6-32	—	1.000 (25.40)	J247-ND	3.85	34.65	80.85
8-32	—	.500 (12.70)	J248-ND	1.93	17.33	40.43
8-32	—	.750 (19.05)	J249-ND	3.60	32.40	75.60
8-32	—	1.000 (25.40)	J250-ND	3.85	34.65	80.85
<b>Hex Threaded Spacers</b>						
4-40	—	.375 (9.52)	J174-ND•	1.93	17.33	40.43
4-40	—	.500 (12.70)	J175-ND•	3.60	32.40	75.60
4-40	—	.875 (22.23)	J176-ND•	3.75	33.75	78.75
6-32	—	.250 (6.35)	J177-ND•	1.68	15.08	35.18
6-32	—	.500 (12.70)	J178-ND•	2.15	19.35	45.15
6-32	—	.625 (15.88)	J179-ND•	3.60	32.40	75.60
6-32	—	.750 (19.05)	J180-ND•	3.68	33.08	77.18
6-32	—	1.000 (25.40)	J181-ND•	3.85	34.65	80.85
<b>Nylon Round Tubular Spacers</b>						
—	4 (.115" / 2.92mm)	.125 (3.18)	J230-ND	.65	5.85	13.65
—	4 (.115" / 2.92mm)	.187 (4.75)	J231-ND	.65	5.85	13.65
—	4 (.115" / 2.92mm)	.250 (6.35)	J232-ND	.65	5.85	13.65
—	6 (.140" / 3.56mm)	.312 (7.92)	J233-ND	.73	6.53	15.23
—	6 (.140" / 3.56mm)	.375 (9.52)	J234-ND	1.05	9.45	22.05
—	6 (.140" / 3.56mm)	.500 (12.70)	J235-ND	1.20	10.80	25.20
—	6 (.140" / 3.56mm)	.625 (15.88)	J236-ND	1.35	12.15	28.35
—	6 (.140" / 3.56mm)	.750 (19.05)	J237-ND	1.53	13.73	32.03

# 3M brand Silicone Lubricant



In a palm-sized, spray pump which now makes your job that much easier.

**This versatile spray:**  
 • Resists temperatures to 350°F (177°C)  
 • Won't stain or become gummy  
 • Helps prevent build-up of glues, waxes, inks and paints  
 • Lubricates cutting tools and tables  
 • **Contains no:** • Chlorofluorocarbons (CFCs) • 1,1,1-trichloroethane • methylene chloride • FDA acceptable;  
 Conforms to FDA regulations for indirect food additives (21 CFR and 178.3570), surface lubricants (21 CFR and 178.3910), and release agents (21 CFR and 181.28)

**Application Ideas:**  
 • Printing presses • Punch presses • Lab equipment • Oil field equipment • General plant maintenance • Locks and pulleys • Musical instruments • Doors/Windows • Air conditioner fans • Cutting blades • Die cutting equipment • Slitters • Collators • Air tools • General lube • You get two major benefits:  
 • No aerosol propellant, so you're not paying for chemicals you don't need on the job or in the air  
 • Helps put more chemical to work for your money

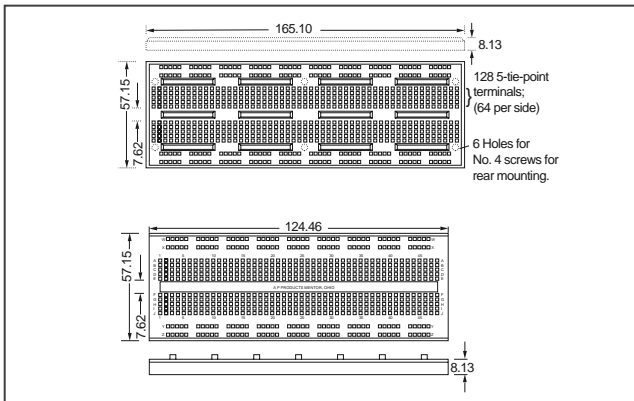
**Features:** At only 6 fluid ounces, you may think the pump won't take you far. It fits in your palm and tucks in a tool box for take-it-to-the-job convenience. But each pump holds enough active ingredients for two typical 16 fluid ounce aerosol cans. That means concentrated value and fewer cans for disposal. Contents are not under pressure. Spray pumps contain no chlorofluorocarbons (CFCs), 1,1,1-trichloroethane, or methylene chloride.

Description	Digi-Key Part No.	Price Each
Silicone Lubricant	3M624678-ND	6.42

# 3M Super Strips and Circuit Strips

## Universal Breadboarding Elements with Solderless Plug-In Tie Points

As with all solderless breadboarding units from 3M, components simply plug-in and are interconnected with ordinary solid hook-up wire; #22 AWG is recommended. All sizes of DIPs and discrete components with lead diameters up to .032" (.82mm) can be accommodated. These handy strips may be permanently mounted with the integral non-shorting instant-mounting backing, or for quick removal, they may be mounted with screws on panels up to 1/8" (3.18mm) thick. Hardware and mounting templates are provided with every strip.

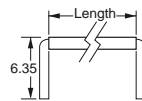


### SPECIFICATIONS

	SUPER-STRIP	CIRCUIT-STRIP
<b>Size:</b>	2.25" x 6.50" x .32" (57.15mm x 165.10mm x 8.13mm)	2.25" x 4.90" x .32" (57.15mm x 124.46mm x 8.13mm)
<b>Plug-In Tie-Points:</b>	840	610
<b>Materials: Body</b>	Acetal Copolymer	Acetal Copolymer

SUPER-STRIP			CIRCUIT-STRIP		
Terminals	Part No.	Price Each	Terminals	Part No.	Price Each
Alloy 770	923252-ND	18.53	Alloy	923253-ND	13.44
Gold (10m)	923748-ND	66.55	Gold (10m)	923749-ND	55.23

# 3M Breadboard Jumper Wire Kit



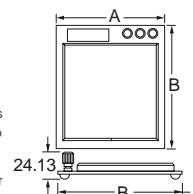
• 350 wires • 14 different lengths • Wire is stripped • Leads bent 90° • Length is classified by color coding • Wire is sold tinned 22 gauge • PVC insulation.  
 Kit contains 25 each of 14 different lengths.  
 923351-ND ..... \$20.38

Length In. (mm)	Qty./Pkg.	Color	Digi-Key Part No.	Price/Pkg.
0.1 (2.54)	200	(No Insulation)	923345-01-ND	
0.2 (5.08)	200	Red	923345-02-ND	
0.3 (7.62)	200	Orange	923345-03-ND	
0.4 (10.16)	200	Yellow	923345-04-ND	
0.5 (12.70)	200	Green	923345-05-ND	\$5.78
0.6 (15.24)	150	Blue	923345-06-ND	per Pkg.
0.7 (17.78)	150	Violet	923345-07-ND	
0.8 (20.32)	150	Gray	923345-08-ND	
0.9 (22.86)	150	White	923345-09-ND	
1.0 (25.40)	100	Brown	923345-10-ND	
2.0 (50.80)	100	Red	923345-20-ND	
3.0 (76.20)	75	Orange	923345-30-ND	
4.0 (101.60)	75	Yellow	923345-40-ND	
5.0 (127.00)	75	Green	923345-50-ND	

# 3M A•C•E Board™ Solderless Breadboards

### FEATURES:

• 0.1" x 0.1" (2.54mm) solderless tie point matrix accepts all DIP sizes and a wide variety of discrete components with lead diameters up to .032" (.81mm) • Capacities range from 610 to 5424 tie points  
 • Accommodate from 6 to 54, 14 pin DIPs • Separate distribution bases for power, ground and signal lines • Molded alphanumeric grid for faster, easier tie point identification • Circuit elements are easily connected with #22 AWG solid wire • Strip bodies are constructed of durable Acetal Copolymer with Alloy 688 terminals • Durable baseplates keep boards stationary during use and help to minimize noise and voltage spikes in today's high speed circuits.



AxCxE Model	DIP Capacity (Size)	Base Dim. Inch (cm)		Total Tie Points	Total 5-Tie Point Term.	Binding Posts	Digi-Key Part No.	Price Each
		A	B					
354	54(14-Pin)	14.69 (37.31)	9.75 (24.77)	5424	768	4	922354-ND	111.56
345	45(14-Pin)	12.44 (31.60)	9.75 (24.77)	4520	640	4	922345-ND	91.07
336	36 (14-Pin)	10.25 (26.04)	9.25 (23.50)	3648	512	4	922336-ND	72.65
327	27 (14-Pin)	8.0 (20.32)	9.25 (23.50)	2712	384	4	922327-ND	55.88
318	18 (14-Pin)	7.75 (19.69)	6.25 (15.88)	1824	256	3	922318-ND	43.71
309	9 (14-Pin)	7.0 (17.78)	4.0 (10.16)	840	128	3	922309-ND	21.89
306	6 (14-Pin)	5.4 (13.72)	4.0 (10.16)	610	94	2	922306-ND	19.52