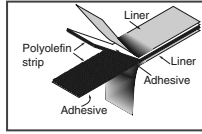


3M Fastening Systems (Cont.)

Dual Lock™ Reclosable Fastening Systems

Features:

When these fasteners are pressed together, hundreds of mushroom-shaped stems interlock with one another. An audible snap announces that the fastener is locked. Compared to hook and loop fasteners, you get improved tensile strength with five times more holding power. Open and close hundreds of times during the life of your product. Plain-backed versions can be easily sewn, stapled or ultrasonically bonded in place. Adhesive-backed versions are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more. For easy opening applications, you can mate Type 250 with Type 170. For medium opening, you can mate Type 170 with Type 400 or Type 250 with itself. For greater holding power with limited openings, you can mate Type 250 with Type 400 or mate Type 170 with Scotchmate Loop Products.



Plain-Backed: Sew on or staple. Wash or dry clean. • Operating Temperature: -20°F - 200°F (-29°C - 93°C)

Pressure Sensitive Rubber Adhesive-Backed: General purpose. Bonds to most surfaces. • Operating Temperature: -20°F - 120°F (-29°C - 49°C) continuous.

Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed: High performance for aircraft, automotive, business equipment, electronics. Resists harsh wet/dry, hot/cold cycles. • Operating Temperature: -20°F - 158°F (-29°C - 70°C) continuous

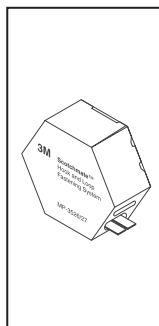
Dual Lock, Low Profile Acrylic Adhesive-Backed: • Material of Construction: Polypropylene • Operating Temperature: -29°F (29°C) and up to 158°F (70°C) • Single Thickness: .0645" (1.63mm) • Engaged Thickness: .0910" (2.31mm) • Closure Cycle Life: 100 - 150

Width Inch (mm)	Type	Digi-Key Part No.	Note: X in Part No. = # of yds. Pricing			
			1 yd.	10 yds.	25 yds.	50 yds.
Plain-Backed — Black						
.5 (12.70)	250	SJ344012-X-ND	5.81	46.50	72.66	87.20
	400	SJ344112-X-ND	5.81	46.50	72.66	77.31
	170	SJ344212-X-ND	5.81	46.50	72.66	77.31
1 (25.40)	250	SJ344010-X-ND	9.79	78.31	122.36	—
	400	SJ344110-X-ND	9.69	77.50	121.10	—
	170	SJ344210-X-ND	9.69	77.50	121.10	128.85
Pressure Sensitive Rubber Adhesive-Backed — Black						
.5 (12.70)	250	SJ354012-X-ND	6.81	54.51	85.18	113.01
	400	SJ354112-X-ND	7.32	58.52	91.44	97.29
	170	SJ354212-X-ND	7.32	58.52	91.44	97.29
1 (25.40)	250	SJ354010-X-ND	12.55	100.43	156.93	188.31
	400	SJ354110-X-ND	12.19	97.50	152.35	162.10
	170	SJ354210-X-ND	12.19	97.50	152.35	162.10
Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed — Black						
.5 (12.70)	250	SJ355012-X-ND	10.73	85.82	134.09	142.67
	400	SJ355112-X-ND	10.73	85.82	134.09	142.67
	170	SJ355212-X-ND	10.73	85.82	134.09	142.67
1 (25.40)	250	SJ355010-X-ND	17.88	143.00	223.44	268.13
	400	SJ355110-X-ND	17.88	143.00	223.44	227.91
	170	SJ355210-X-ND	17.88	143.00	223.44	227.91
Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed — Clear						
.5 (12.70)	250	SJ356012-X-ND	12.32	98.54	153.96	163.82
1 (25.40)	250	SJ356010-X-ND	20.53	164.27	256.68	261.81
Dual Lock, Low Profile Acrylic Adhesive-Backed — Clear						
1 (25.40)	300 LSE	SJ457010C-X-ND	5.06	32.51	63.21	—
Dual Lock, Low Profile Acrylic Adhesive-Backed — Black						
1 (25.40)	300 LSE	SJ457510B-X-ND	4.36	28.05	62.33	109.08

MiniPack

Features: Assorted Hook, Loop and Dual Lock™ Fastening systems.

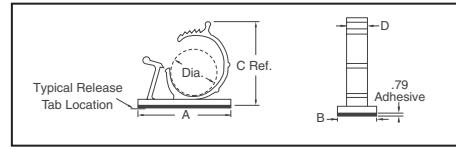
Description	Digi-Key Part No.	Price Each		
		1	5	10
Hook and Loop (4.9 yards per pack)				
Black, 1", Sew-on	MP-3401/02B-ND	19.27	16.52	14.87
White, 1", Sew-on	MP-3401/02W-ND	19.27	16.52	14.87
Black, 1", Adhesive	MP-3526/27B-ND	40.86	35.03	31.53
White, 1", Adhesive	MP-3526/27W-ND	40.86	35.03	31.53
Dual Lock™ (4.9 yards per pack)				
Black, 1", Adhesive	MP-3541/42B-ND	60.64	51.98	46.78
Black, 1", High Bond	MP-3551/52B-ND	84.84	72.72	65.45
Dual Lock, Low Profile (10 feet per pack)				
Clear, 5/8", Adhesive	MP-457058C-10-ND	14.82	—	12.71



Richco Adjustable Kwik Klip

Features:

- 4 sizes adjust to any holding diameter from 5/16" - 1" (7.9 - 25.4mm)
- Locks securely, easily reopened for routing changes
- Adhesive back
- Material: Nylon 6/6
- Color: Natural



Dia. Range mm	Dimensions - mm				Digi-Key Part No.	Pricing			Richco Part No.
	A	B	C	D		10	100	500	
7.87 - 10.16	25.40	19.05	22.10	10.16	RP309-ND	8.00	66.64	266.56	AKKL-3140A-RT
11.68 - 14.22	31.75	19.05	27.69	10.16	RP310-ND	10.00	83.31	333.24	AKKL-4756A-RT
14.48 - 19.05	38.10	19.05	31.75	12.70	RP311-ND	13.00	114.88	459.50	AKKL-5775A-RT
22.10 - 25.40	50.80	25.40	44.45	12.70	RP312-ND	15.60	130.01	520.04	AKKL-8710A-RT

Tie Holders

Fig. 1 — Features: • Multi-directional • Material: Nylon 6/6, UV Stabilized Nylon 6/6

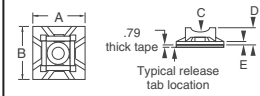


Fig. 2 — Features: • Ramp feature allows ties to pass through easily • 4-way entry • Material: Nylon 6/6, Adhesive, UV Stabilized Nylon 6/6

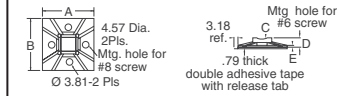


Fig.	Tensile Force (kg)	Dimensions - mm					Digi-Key Part No.	Pricing			Richco Part No.
		A	B	C	D	E		10	100	500	
Nylon											
1	6.72/11.20	19.05	19.05	6.35	6.10	1.52	RP301-ND	5.14	42.80	171.20	FTH-5A-RT-C
	18.66/22.39	25.40	25.40	11.68	7.11	1.78	RP302-ND	5.44	45.37	181.48	FTH-7-01A-RT
2	44.79	38.10	38.10	10.92	7.62	2.03	RP303-ND	15.55	129.61	518.44	FTH-8-01A-RT
	44.79	50.80	50.80	10.92	7.62	2.03	RP304-ND	16.22	135.18	540.72	FTH-10-RT-M
Ultra Violet — Exterior or Outdoor Use (Black)											
1	6.72/11.20	19.05	19.05	6.35	6.10	1.52	RP305-ND	5.72	47.71	190.82	FTH-5A-RT-UVB-M
	18.66/22.39	25.40	25.40	11.68	7.11	1.78	RP306-ND	7.17	59.77	239.08	FTH-7A-RT-UVB-C
2	44.79	38.10	38.10	10.92	7.62	2.03	RP307-ND	14.15	117.95	471.78	FTH-8-01A-RT-UVB

LED Spacers

Features: • Spaces LED from surface of board • Easily installed by hand • Insulates and spaces leads • Slots and holes for choice of mount Material: Nylon 6/6 Color: Natural

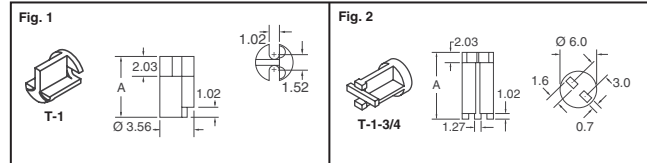
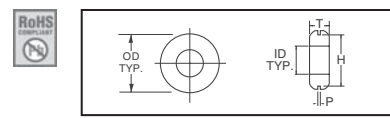


Fig.	Dimension A mm	Digi-Key Part No.	10	Pricing 100	500	Richco Part No.
1	4.57	RP500-ND	3.70	30.85	123.40	LED51E-3-01
	6.35	RP501-ND	3.91	32.60	130.40	LED51E-4-01
	12.70	RP502-ND	4.32	36.03	144.12	LED51E-8-01
	15.75	RP503-ND	4.43	36.91	147.64	LED51E-10-01
	19.05	RP504-ND	4.51	37.57	150.26	LED51E-12-01
2	4.57	RP505-ND	4.68	39.04	156.16	LED52E-3-01
	6.35	RP506-ND	4.89	40.77	163.08	LED52E-4-01
	12.70	RP507-ND	5.30	44.21	176.82	LED52E-8-01
	15.75	RP508-ND	5.39	44.93	179.72	LED52E-10-01
	19.05	RP509-ND	5.47	45.60	182.38	LED52E-12-01

Hole Grommet

Features: • Installs instantly • Material: Flexible vinyl • Color: Black



ID	Dimensions - mm					Digi-Key Part No.	Pricing			Richco Part No.
	H	P	OD	T	10		100	500		
3.05	4.57	1.52	7.87	6.35	RP450-ND	1.46	12.15	48.60	HG-2	
3.81	6.35	1.52	9.40	6.35	RP451-ND	1.50	12.53	50.12	HG-2.5	
4.57	7.87	.76	10.92	4.57	RP452-ND	1.65	13.76	55.02	HG-3	
5.33	7.87	1.52	10.92	5.33	RP453-ND	1.84	15.33	61.32	HG-3.5	
6.35	9.40	2.29	14.22	7.11	RP454-ND	2.03	16.89	67.56	HG-4	
9.40	12.70	1.52	17.27	7.11	RP455-ND	3.38	28.14	112.56	HG-6	
14.22	17.27	1.52	22.10	4.57	RP456-ND	4.28	35.66	142.62	HG-9	
17.27	19.05	1.52	23.62	4.57	RP457-ND	4.73	39.40	157.58	HG-11	

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