

3M Automotive
3M™ Dual Lock™ and 3M™ Hook and Loop Fasteners



Reclosable Fastening Systems



3M™ Dual Lock™

Dual Lock is a great alternative to current attachment solutions, like clips, screws or hidden fasteners. 3M Dual Lock Fastening Systems are reclosable, positive-locking, blind fasteners that feature mushroom-shaped polyolefin stems on a continuous backing. When pressed together these mushroom-shaped stems interlock to provide a strong reliable attachment. This attachment also absorbs vibrations. 3M Dual Lock fasteners are used primarily to secure rigid and semi-rigid surfaces such as trim or door panels, instrument panel bezels, headliners, and other automotive interior trim. Environmental stability range for plain dual Lock -40°C to 120°C



Headliner



Sunroof frame



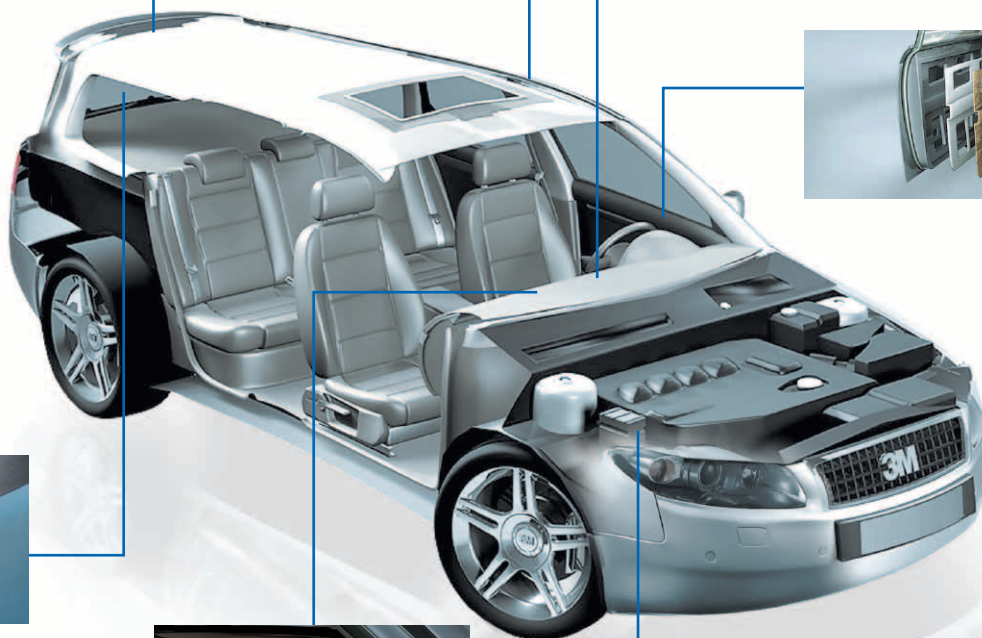
Center console panel & electronic components



Door panel



Window fixation (temporary)



Car dashboard

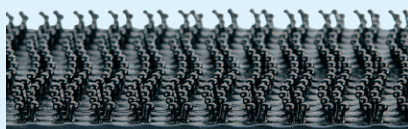


Control boxes

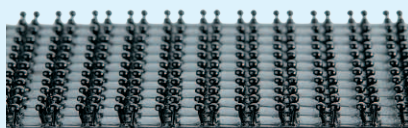
3M™ Dual Lock™ Type



DL 400 (62 stems/cm²)



DL 250 (39 stems/cm²)



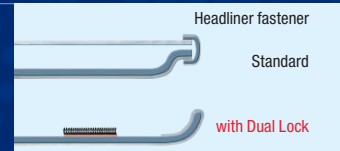
DL 170 (26 stems/cm²)

- Dual Lock Fasteners are available in three stem densities: 170, 250 or 400 stems/inch².
- With different Dual Lock combinations it is possible to achieve different load levels.
- Recommended combination:
DL400/DL250 is suitable for 95 % of all applications.

Performance and Benefits:

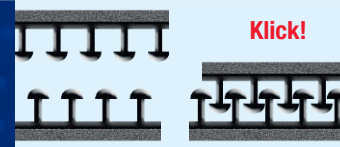
Invisible Attachment

- Dual Lock can be positioned on the piece backing without damaging the surface



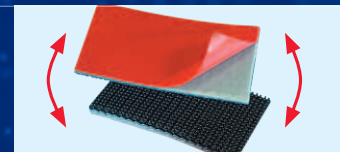
Easy Positioning

- High productivity through easy mounting
- Audible Engagement



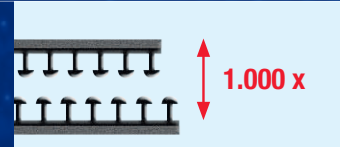
Easy Alignment

- It can be closed in parallel or cross alignment



Reclosability

- Reclosable up to 1000 times
- Easy disassembly if needed



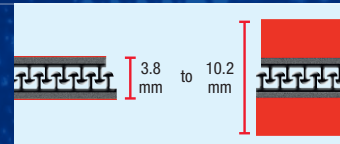
Reduces Vibration

- Together with 3M™ Acrylic Foam™ Tape



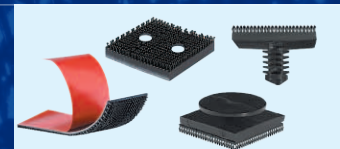
Bridging

- From 3.8 to 10.2 mm



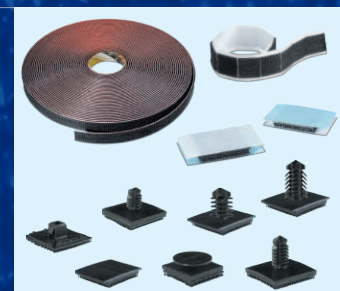
Wide Application Possibilities

- Dual Lock is suitable for different applications and offers high design flexibility
- It can be applied together with 3M™ Acrylic Foam™ Tape or adhesive, by ultrasound welding, screws, self-sustained as slide-in or pop-in, etc.



Available in a Variety of Forms

- Combined with 3M™ Acrylic Foam™ Tape as rolls, or parts-on-a-roll
- Die cuts single or sandwich construction
- Pop-ins, slide-ins, rigid-back parts for different substrate thickness and hole sizes





Construction Heights

Typical construction heights of different 3M™ Dual Lock™ combinations.

Engaged Dual Lock Thickness in mm (without liner)

DL-Type**	Plain	468 MP	5428	5580	GT6008	5361	5673	GT6012	5356	5745	4225
Plain	3.8	3.9	4.3	4.6	4.6	4.9	4.9	5.0	5.3	5.8	7.0
468 MP		4.1	4.4	4.7	4.7	5.0	5.0	5.1	5.5	5.9	7.1
5428			4.7	5.1	5.1	5.4	5.4	5.5	5.8	6.2	7.4
5580				5.4	5.4	5.7	5.7	5.8	6.1	6.6	7.8
GT6008					5.4	5.7	5.7	5.8	6.1	6.6	7.8
5361						6.0	6.0	6.1	6.4	6.9	8.1
5673							6.0	6.1	6.4	6.9	8.1
GT6012								6.2	6.5	7.0	8.2
5356									6.8	7.3	8.5
5745										7.8	9.3
4225											10.2

Note ** DL-Type is either DL170, DL250 or DL400.

Tolerance on engaged thickness of pressure sensitive Dual Lock $\pm 0,5$ mm.

Tolerance on engaged thickness of plain backed Dual Lock $\pm 0,35$ mm.



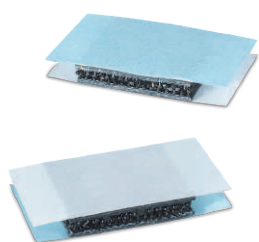
3M™ Dual Lock™ Standard Rolls*

	Tape-Thickness (mm)	Width (mm)							
		10	12,5	15	20	25	30	50	
Plainback	0	30	30	46	46	46	46	46	Length (m)
468MP	0.1	20	30	46	46	46	46	46	
5428	0.4	30	30	46	46	46	46	46	
GT6008	0.8	30	30	46	46	46	46	46	
5580	0.8	30	30	46	46	46	46	46	
GT6012	1.2	30	30	46	46	46	46	46	
5361	1.1	20	20	46	46	46	46	46	
5673	1.1	20	20	46	46	46	46	46	
5356	1.5	15	15	30	30	30	30	30	
5745	2.0	15	15	30	30	30	30	30	
4225	3.2	15	15	30	30	30	30	30	



3M™ Dual Lock™ Standard Die Cuts*

Length (mm)	Width (mm)						
	12.5	15	20	25	30	40	50
10	●	●	●	●	●	●	●
15	●	●	●	●	●	●	●
20	●		●	●	●	●	●
25	●			●	●	●	●
30	●				●	●	●
35	●	●	●	●	●	●	●
40	●					●	●
50	●						●
60	●	●	●	●	●	●	●



* The shown products are a small sample of the available portfolio.

3M™ Dual Lock™ Standard Piece Parts*

Product Type	Stems per 2.54 cm ²	DL-Size (mm)	Target Hole Size (mm)	Post Length (mm)	Panel Thickness (mm)	Number of Holes	Diameter (mm)
 SJ 3209 Pop-In	250	26 x 26	Ø 8.2 (7.9 – 8.4)	12.3	0.8 – 4.7	–	–
 SJ 3749 Pop-In	400	26 x 26	Ø 8.2 (7.9 – 8.4)	12.3	0.8 – 4.7	–	–
 SJ 3715 Pop-In	400	26 x 26	Ø 10 (9.93 – 10.3)	8,5	0.86 – 1.0	–	–
 SJ 3827 Pop-In	400	26 x 26	6.5 (+0.03/-0.25) x 10 (+0.03/-0.25)	9,1	0.7 – 1.0	–	–
 SJ 3221 Pop-In	250	20 x 20	Key Hole Slot	5,0	2.65 (2.5 – 2.8)	–	–
 SJ 3731 Pop-In	400	20 x 20	Key Hole Slot	5,0	2.65 (2.5 – 2.8)	–	–
 SJ 3250 Die-cut rectangular part	400	20.5 x 28	Ø 4.22	–	–	1 (center)	–
 SJ 3252 Die-cut rectangular part	400	38.1 x 38.1	Ø 4.22	–	–	2 (25.0 mm hole spacing)	–
 SJ 3261 Die-cut rectangular part	400	38.1 x 38.1	Ø 3.6	–	–	2 (25.0 mm hole spacing)	–
 SJ 3767 Die-cut rectangular part	400	38.1 x 38.1	Ø 3.6	–	–	2 (25.0 mm hole spacing)	–
 SJ 3755 Die-cut Circle Washer	250	ca. 5.87 cm ²	Ø 4.1	–	–	1 (center)	28.5
 SJ 3762 Die-cut Circle Washer	400	ca. 5.87 cm ²	Ø 4.1	–	–	1 (center)	28.5
 SJ 3763 Die-cut Circle Washer	400	ca. 2.84 cm ²	Ø 4.1	–	–	1 (Mitte)	20.6

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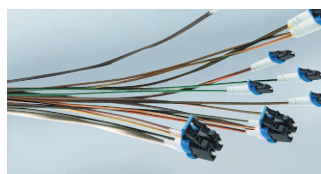
3M™ Hook and Loop

Compression and uncompress. So easy is our known fastening system.

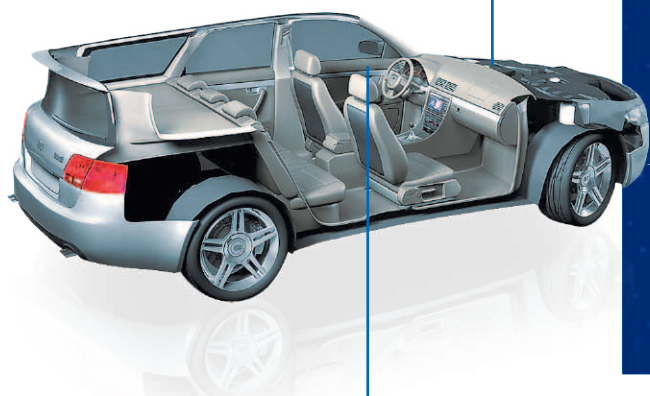
If your application needs a reclosability at any time 3M™ Hook and Loop is the ideal solution. Anywhere there ... All Hook and Loop Systems are self-adhesive fitting.



Properties and Benefits



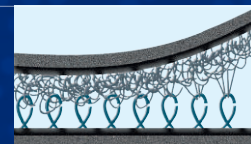
Cable bundle



Attachment of textile surfaces

Fast closure

- Can be used in every direction.
- Shorter production time and lower costs.



Invisible Attachment

- Can be attached on the rear side of the interior part for optimal fitting of the visible surface.



Reclosability

- Can be opened and closed up to 5000 times, depending on application.



Fitting

- Self-adhesive fitting
- Outstanding cohesion
- Available in black and white



3M™ Hook and Loop Standard Rolls*

Product	Description	Adhesive	Color	Thickness (mm)	Width (mm)	Length (m)
SJ3526N	Hook	Synth. Rubber	black/white	2.6 – 4.2	25.4	45.7
SJ3527N	Loop	Synth. Rubber	black/white	2.6 – 4.2	25.4	45.7
SJ3572	Hook	Acryl	black	2.6 – 4.2	25.4	45.7
SJ3571	Loop	Acryl	black	2.6 – 4.3	25.4	45.7

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