HellermannTyton

Cable Tie Adhesive Mounts

Selection Guide

Adhesive Mounts

Adhesive mounts provide a unique solution for critical routing applications – an anchoring point that can be placed virtually anywhere, without requiring holes or drilling.

Use this guide to choose the right adhesive mount for your application based on criteria such as mounting surface, bundle weight and environmental factors. Installers can also learn about proper installation. Many adhesive mount failures can be attributed to not applying enough pressure when adhering to a surface and not allowing enough dwell time.

We offer four adhesive options, so choosing the right one is essential for maximum results. For example, rubber is an appropriate and economical choice for indoor applications where the environment is controlled, such as control panels and industrial automation. Acrylic-based adhesives perform better in environments where the mount may be exposed to chemicals and higher temperatures, which are common in the auto, truck, heavy equipment and machine building industries. Acrylics also have better UV resistance and good water resistance for outdoor applications.

HellermannTyton offers adhesive mounts in a variety of configurations to match common cable tie sizes and a range of applications. Our mounts feature quality 3M™ adhesives, providing impressive strength and longevity.

Common applications:
- Control panels
- Indoor or outdoor cable routing
- Constrained spaces requiring a low-profile fastening solution
- Surfaces that cannot be drilled
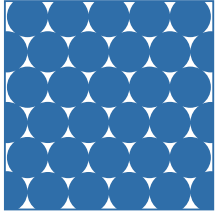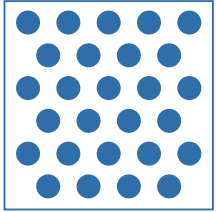- Routing wires away from moving parts
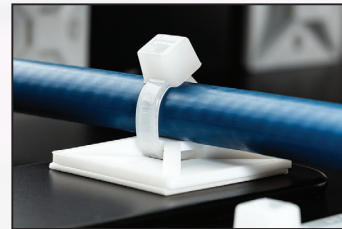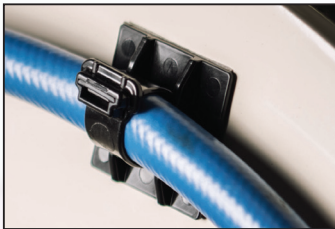
Selecting Adhesive Mounts for Your Application

Adhesives have characteristics that can affect performance. To select the optimum part for the application, follow these three steps.

STEP 1: ▶ Surface Energy

Surface energy refers to how well the application surface can be bonded to. See the examples below to determine whether your surface is high energy or low energy. High surface energy substrates have a higher molecular bond, allowing the adhesive to spread across the surface more easily. Low surface energy demonstrates weaker molecular bonds.

Refer to the chart on page 5 to determine the best adhesive mount based on surface energy.

Examples of High Surface Energy (HSE) Materials	Examples of Low Surface Energy (LSE) Materials
Aluminum Stainless Steel Anodized Aluminum Glass	ABS Acetal Acrylic Epoxy Paint Nylon

Demonstration of Adhesive Reaction on HSE Surfaces	Demonstration of Adhesive Reaction on LSE Surfaces

STEP 2: ▶ End-Use Environment

The environment where the adhesive mount is applied may be different than the end-use environment. Take into account the many factors that may affect performance where the product will be used, including:

• Chemicals • Operating temperatures • UV resistance

Refer to the chart on page 5 for determining the best adhesive mount based on end-use factors.

Selecting Adhesive Mounts for Your Application *(cont.)*

STEP 3: ▶ Bundle Weight

The load being applied to the adhesive will affect overall performance. The industry standard practice is to list a pull-off force on the product package. However, this doesn't take into account static load over time.

Find the static load rating (below) for the mount you are using and enter into the formula to determine the number of mounts needed for your application.

Type	Static Load Rating lb/mt
MB2.5A	0.3
MB3A	0.6
MB4A, FMB4APT-1	1.1
MB5A, WSMB5AHB	2.1

Calculation:

$$\frac{\text{Cable weight (lb/ft)}}{\text{Load Rating (lb/mt)}} = \frac{\text{Adhesive Mount Spacing}}{\text{ft}}$$

Example:

Adhesive mounts are needed for an industrial control panel. The panel has an enamel powder-coated finish and will be installed indoors. The control panel will not be exposed to chemicals, moisture or hazardous conditions. The cables being installed will weigh about 0.31 lb per foot.

STEP 1: Enamel has a low surface energy, so we suggest the installer use an acrylic adhesive. If the panel were bare steel or aluminum, we would recommend a rubber adhesive.

STEP 2: The mounts will be used in a controlled end-use environment with no risk of chemical exposure.

STEP 3: $\dfrac{\text{Cable weight } 0.31 \text{ lb/ft}}{\text{MB4A Load Rating:1.1}} = \dfrac{0.28 \text{ Adhesive Mounts}}{\text{ft}}$ *We suggest 1 high-bond acrylic mount per foot.*

Note:
For optimal performance of applications that require the wires to hold at angles, do not exceed spacing between each mount greater than 1 ft.
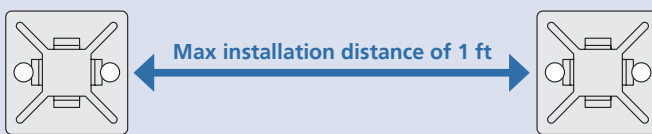
Max installation distance of 1 ft

HellermannTyton recommends testing products in the intended applications before final usage to verify proper functionality.

Adhesive Mount Selection Guide

Page	Product	STEP 1		STEP 2						
		High Surface Energy Substrate	Low Surface Energy Substrate	Operating Temperatures	UV Resistance	Water, 5% Salt water	Motor Oil and Fuels	Weak Acids	Weak Bases	Organic Solvents
High-Heat Acrylic Adhesive Mounts										
6		Good	Good	-40 to 176F (-40 to 80C)	Good	Good	Good	Fair	Fair	Fair
High-Bond Acrylic Adhesive Mounts										
7		Good	Good	-31 to 158F (-35C to 70C)	Good	Good	Good	Fair	Fair	Fair
Acrylic Adhesive Mounts										
8		Good	Fair	-31 to 158F (-35C to 70C)	Good	Good	Good	Fair	Fair	Fair
Rubber Adhesive Mounts										
9		Good	Fair	0 to 150F (-18 to 66C)	Fair	Good	Good	Not Recommended	Good	Not Recommended

🟢 Good   🟡 Fair   ⚪ Not Recommended

Adhesive Mounting Bases

### High-Heat Acrylic Adhesive Mounts

HellermannTyton Adhesive Cable Tie Mounting Bases are used with T18 through T150 Series cable ties or Wide Strap Cable Ties to provide stability when securing bundles. Acrylic-based adhesive is tailored to outdoor applications, providing a wider range of operating temperatures and UV resistance compared to rubber. The Wide Strap adhesive mounting base is made of a high-impact material offering added resistance to impact, temperature, moisture, salt and petroleum products. Additionally, the modified acrylic provides more options to work with lower surface energy applications. Some versions of this product feature predrilled holes to extend mounting options and security.

Features and Benefits

- High-heat, high-bond acrylic adhesive backing allows for cable management when mounting holes or edges are not an option.

- Extended adhesive liner is easy to remove quickly prior to installation.

- Some options contain 4-way opening allowing cable ties to be installed parallel or perpendicular to bundles.

ADHESIVE	Acrylic foam
Adhesive Operating Temperature	-40°F to +176°F (-40°C to +80°C)
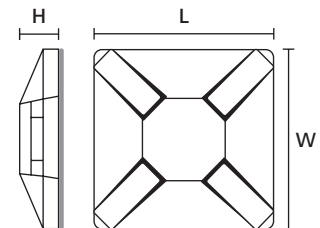
RoHS ✓

PART NO.	TYPE	Max. Static Load lb/ft	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Color	Material	Pkg. Qty.	
151-01629	MB3A	0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	Black	PA66HIRHSUV	100	
151-01630		0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	Black	PA66HIRHSUV	500	
151-01631	MB4A	1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	Black	PA66HIRHSUV	100	
151-01632		1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	Black	PA66HIRHSUV	500	
151-01633	MB5A	2.1	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	Black	PA66HIRHSUV	100	
151-01634		2.1	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	Black	PA66HIRHSUV	250	
151-01857	WSMB5AHB	2.1	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.7)	Black	PA66HIRHSUV	100	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Adhesive Mounting Bases

High-Bond Acrylic Adhesive Mounts

HellermannTyton Adhesive Cable Tie Mounting Bases are used with T18 through T50 Series cable ties to provide stability when securing bundles. Acrylic-based adhesive is tailored to outdoor applications, providing a wider range of operating temperatures and UV resistance compared to rubber. Additionally, the acrylic provides more options to work with lower surface energy applications. Two predrilled holes extend mounting options and security. The FlexTack option extends versatility for flat, curved or moderately angled surfaces.

Features and Benefits

- High-bond acrylic adhesive backing allows for cable management when mounting holes or edges are not an option.

- Extended adhesive liner is easy to remove quickly prior to installation.

- 4-way opening allows cable ties to be installed parallel or perpendicular to bundles.

ADHESIVE	Acrylic foam
Adhesive Operating Temperature	-31°F to +158°F (-35 °C to +70 °C)

RoHS ✓
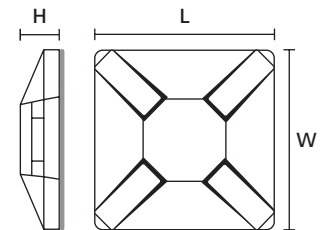
PART NO.	TYPE	Max. Static Load lb/ft	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Color	Material	Pkg. Qty.	
151-01527	FMB4APT-I	1.1	T18 - T50	1.1 (28.0)	1.1 (28.0)	0.3 (6.3)	Black	PA66HS	100	
151-01528		1.1	T18 - T50	1.1 (28.0)	1.1 (28.0)	0.3 (6.3)	White	PA66HS	100	
151-00810	MB4A	1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	Black	PA66W	100	
151-00646		1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	Black	PA66W	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.
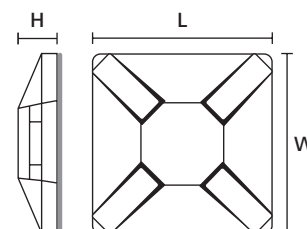
Adhesive Mounting Bases

Acrylic Adhesive Mounts

HellermannTyton Adhesive Cable Tie Mounting Bases are used with T18 through T150 Series cable ties to provide stability when securing bundles. Acrylic-based adhesive is tailored to outdoor applications, providing a wider range of operating temperatures and UV resistance compared to rubber. Two predrilled holes extend mounting options and security.

Features and Benefits

• High-bond acrylic adhesive backing allows for cable management when mounting holes or edges are not an option.

• Available in multiple sizes to accommodate varying static load weights.

• Extended adhesive liner is easy to remove quickly prior to installation.

• 4-way opening allows cable ties to be installed parallel or perpendicular to bundles.

ADHESIVE	Acrylic foam
Adhesive Operating Temperature	-31°F to +158°F (-35 °C to +70 °C)

RoHS ✓

PART NO.	TYPE	Max. Static Load lb/ft	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Color	Material	Pkg. Qty.	
MB3A0A2H4		0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	Black	PA66	500	
MB3A10A2C2	MB3A	0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	White	PA66	100	
MB3A10A2H4		0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	White	PA66	500	
MB4A0A2H4		1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	Black	PA66	500	
MB4A10A2C2	MB4A	1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	White	PA66	100	
MB4A10A2H4		1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	White	PA66	500	
MB5A10A2F4	MB5A	2.1	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	White	PA66	250	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

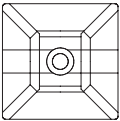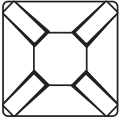## Adhesive Mounting Bases

Rubber Adhesive Mounts

HellermannTyton Adhesive Cable Tie Mounting Bases are used with T18 through T150 Series cable ties to provide stability when securing bundles. Rubber-based adhesive is an economical choice ideal for indoor applications. Rubber adhesives allow for less dwell time during application in comparison to acrylic adhesives. Predrilled hole or holes extend mounting options and security.

Features and Benefits

- Rubber adhesive backing allows for cable management when mounting holes or edges are not an option.
- Available in multiple sizes to accommodate varying static load weights.
- Extended adhesive liner is easy to remove quickly prior to installation.
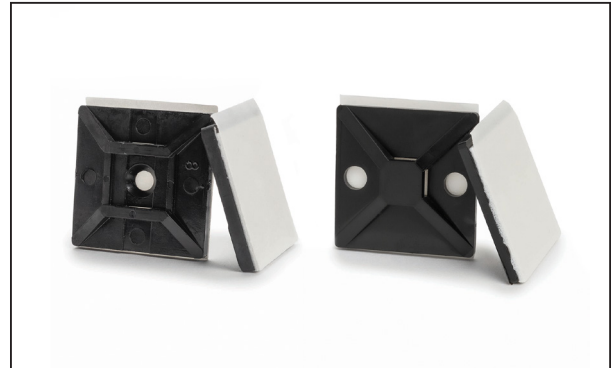
ADHESIVE	Synthetic rubber with base of polyethylene foam
Adhesive Operating Temperature	0°F to +150°F (-18 °C to +66 °C)
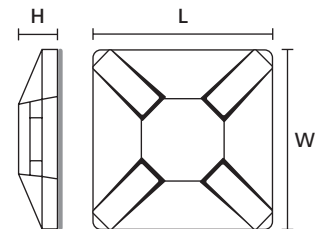
RoHS✓

PART NO.	TYPE	Max. Static Load lb/ft	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Color	Material	Pkg. Qty.
MB2.5A0C2	MB2.5A	0.3	T18	0.6 (15.9)	0.6 (15.9)	0.2 (4.1)	Black	PA66	100
MB2.5A0M4		0.3	T18	0.6 (15.9)	0.6 (15.9)	0.2 (4.1)	Black	PA66	1000
MB2.5A10C2		0.3	T18	0.6 (15.9)	0.6 (15.9)	0.2 (4.1)	White	PA66	100
MB2.5A10M4		0.3	T18	0.6 (15.9)	0.6 (15.9)	0.2 (4.1)	White	PA66	1000
MB3A0C2	MB3A	0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.6)	Black	PA66	100
MB3A0M4		0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.6)	Black	PA66	1000
MB3A10C2		0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.6)	White	PA66	100
MB3A10M4		0.6	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.6)	White	PA66	1000
MB4A0C2	MB4A	1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	Black	PA66	100
MB4A0H4		1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	Black	PA66	500
MB4A10C2		1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	White	PA66	100
MB4A10H4		1.1	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	White	PA66	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Adhesive Mounting Bases

Rubber Adhesive Mounts

PART NO.	TYPE	Max. Static Load lb/ft	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Color	Material	Pkg. Qty.	
MB4SHA0C2	MB4SHA	1.1	T18 - T50	1.1 (28.3)	1.1 (28.3)	0.2 (5.8)	Black	PA66	100	
MB4SHA0H4		1.1	T18 - T50	1.1 (28.3)	1.1 (28.3)	0.2 (5.8)	Black	PA66	500	
MB4SHA10C2		1.1	T18 - T50	1.1 (28.3)	1.1 (28.3)	0.2 (5.8)	White	PA66	100	
MB4SHA10H4		1.1	T18 - T50	1.1 (28.3)	1.1 (28.3)	0.2 (5.8)	White	PA66	500	
MB5A0C2	MB5A	2.1	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	Black	PA66	100	
MB5A0F4		2.1	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	Black	PA66	250	
MB5A10C2		2.1	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	White	PA66	100	
MB5A10F4		2.1	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	White	PA66	250	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Surface Preparation and Application:

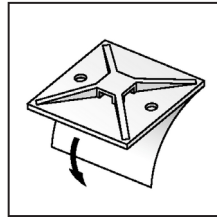For best adhesive performance, follow surface preparation below.
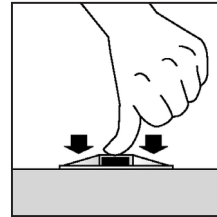
Bond strength will increase over time.

1. Mounting surface must be thoroughly cleaned prior to applying adhesive pad. Use a 50/50 mix of isopropanol and water for best results, as commercial cleaners may leave residue.
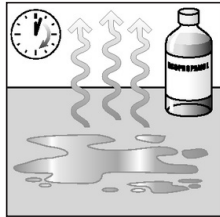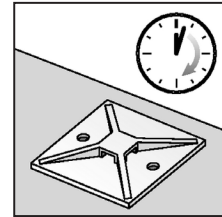
2. Allow surface to completely dry before proceeding to next step.

3. Taking care not to touch adhesive, peel off protective backing.

4. Press your thumb firmly against the mount with 15 lb of pressure for several seconds.

5. Wait several hours to allow the adhesive to fully bond with the surface.

Storage Guidelines:

HellermannTyton products are designed for longevity and performance in a wide range of applications. When possible, products should be stored in their sealed bags in a temperature and humidity-controlled environment until use. Protect the products from long-term exposure to direct sunlight and away from direct heat sources. Ideal storage conditions are 73°F (22.8°C) and 50% relative humidity. Once opened, use product as soon as possible.

Ideal storage conditions:

23 °C

50%
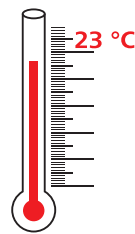
73°F
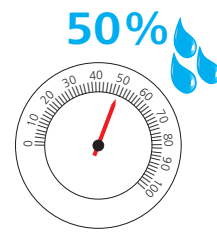
50% relative humidity

Shelf Life:

Adhesive mount products are recommended to be used within 24 months of purchase. HellermannTyton recommends testing products in the intended applications before final usage to verify proper functionality.

HellermannTyton