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Thomas & Betts TY27MX

Thomas & Betts TY27MX Cable Tie Instruction Manual

Model: TY27MX (Manufacturer Part Number: 7937030)

1. Product Overview

The Thomas & Betts TY27MX Cable Tie is a robust fastening solution designed for demanding applications. These 13.4-inch, 120 lb. UV black nylon cable ties feature a stainless steel locking device embedded in the head for enhanced durability and secure fastening. Engineered for outdoor use, the UV protection ensures extended service life when exposed to sunlight. They are suitable for bundling items with a maximum diameter of 3.5 inches and operate effectively within a temperature range of -40°F to 185°F, carrying a UL Flame rating of 94V-2.



Image 1: A single Thomas & Betts TY27MX UV Black Nylon Cable Tie, showcasing its black color and the distinct stainless steel locking mechanism within the head.

2. Specifications

Feature	Detail
Model	TY27MX
Material	6/6 Nylon, Stainless Steel (locking device)
Color	Black
Length	13.4 inches
Tensile Strength	120 lbs (534 N)

Feature	Detail
Maximum Bundle Diameter	3.5 inches
Operating Temperature	-40°F to 185°F (-40°C to 85°C)
UV Resistance	Yes (UV Black)
UL Flame Rating	94V-2
Quantity per Bag	500
Country of Origin	USA

3. Setup and Installation

1. **Preparation:** Ensure the items to be bundled are clean and free from sharp edges that could damage the cable tie. Select a cable tie length appropriate for the bundle diameter, ensuring sufficient overlap for secure fastening.
2. **Application:** Wrap the cable tie around the items to be secured. Insert the pointed end of the cable tie into the head, passing it through the opening until it emerges on the other side.
3. **Securing:** Pull the pointed end of the cable tie firmly to tighten it around the bundle. Ensure the stainless steel locking device within the head engages securely with the tie's serrations. Continue pulling until the desired tension is achieved and the bundle is held firmly in place.
4. **Trimming (Optional):** If there is excess tail extending beyond the head, use a cable tie tool or sharp cutting pliers to trim the excess flush with the head. This prevents snags and provides a neat finish.

4. Operating Instructions

Thomas & Betts TY27MX cable ties are designed for single-use, permanent fastening. Once the tie is tightened and the stainless steel locking mechanism is engaged, it forms a secure, non-releasable loop. Attempting to release or reuse the tie after it has been fully tightened may compromise its integrity and tensile strength. For applications requiring temporary bundling or reusability, a different type of fastening solution should be considered.

5. Maintenance

- **Storage:** Store cable ties in their original packaging in a cool, dry environment, away from direct sunlight and extreme temperatures. Proper storage helps maintain the material's flexibility and strength.
- **Inspection:** Before use, visually inspect each cable tie for any signs of damage, cracks, or deformities. Do not use damaged ties, as their tensile strength may be compromised.

6. Troubleshooting

- **Cable tie not holding securely:**
  - Ensure the pointed end is fully inserted into the head and pulled tight until the stainless steel lock engages.
  - Verify that the bundle diameter is within the tie's maximum capacity (3.5 inches).
  - Check for any obstructions or debris in the locking mechanism.
- **Cable tie breaking during tightening:**

- Ensure the tensile strength of 120 lbs is not being exceeded by the application.
- Avoid over-tightening, which can stress the material.
- Inspect the tie for pre-existing damage before use.

7. Warranty and Support

Thomas & Betts products are manufactured to high-quality standards. For specific warranty information or technical support regarding your TY27MX cable ties, please refer to the official Thomas & Betts website or contact their customer service department directly. Keep your purchase receipt for warranty claims.

Thomas & Betts Contact Information:
Please visit the official Thomas & Betts website for the most current contact details, including phone numbers and support forms.

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