

1. Description



Preformed Stainless Steel Ties with Scru-lokt Buckles are ready-to-use clamping solutions consisting of a specific length of stainless steel banding pre-assembled with an integrated Scru-lokt style buckle. This configuration combines the convenience of a pre-sized tie with the high clamping force and adjustability offered by a screw-tensioned buckle. Manufactured from durable stainless steel, these ties provide strong, reliable fastening suitable for applications requiring precise tension control and resistance to harsh environments.

2. Key Features:

- **Pre-Assembled Convenience:** Band and Scru-lokt buckle are supplied as a single unit, ready for immediate application, reducing handling time.
- **Screw Locking:** Integrated screw allows quick locking and releasing which save your operation time.
- **High Clamping Force:** Capable of achieving higher tension compared to some other preformed tie types.
- **Adjustable Tension:** Allows for fine-tuning of tension during installation. May allow for loosening and retightening in some applications (check suitability).
- **Durable Construction:** Stainless steel band and buckle provide excellent strength and longevity.
- **Corrosion Resistance:** Available in various stainless steel grades for suitability in different environmental conditions.
- **Vibration Resistance:** Screw mechanism generally offers good resistance to loosening under vibration.

3. Applications

- Suitable for applications requiring a pre-sized clamp with high, adjustable tension:
- **Hose Clamping:** Securing industrial hoses where precise tension is needed.
- **Cable Bundling:** Fastening bundles of cables or conduits securely.
- **Sign & Fixture Mounting:** Attaching items to poles where a specific diameter clamp with high tension is required.
- **Automotive & Industrial:** Securing components, heat shields, or wiring harnesses.
- **Maintenance & Repair:** Providing strong, adjustable clamps quickly.
- **Marine Environments:** Suitable when appropriate stainless steel grades (e.g., SS316) are used.

4. Technical Data:

- **Material:**
 - **Band:** Typically Stainless Steel Type 201, Type 304 (SS304 / UNS S30400), or Type 316 (SS316 / UNS S31600).
 - **Buckle Housing:** Stainless Steel 304.
 - **Screw:** Stainless Steel 304.
- **Buckle Type:** Integrated Scru-lokt Buckle.
- **Available Widths:** Manufactured in standard banding widths: 3/8" (9.5mm), 1/2" (12.7mm), 5/8" (15.9mm), 3/4" (19.1mm).
- **Preformed Lengths:** Available in a range of standard lengths corresponding to specific maximum bundle diameters, usually 300~5,000mm.
- **Maximum Bundle Diameter:** Each preformed length is designed for a specific maximum bundle size, usually from 300 to 3,000mm.
- **Thickness:** Standard banding thickness: 0.015" (0.4mm) - 0.028" (0.70mm).
- **Screw Head Type:** Typically 5/16" (8mm) Hex Head.
- **Operating Temperature Range:** -80°C to +300°C (-112°F to +572°F).
- **Resistance:** Excellent resistance to UV radiation, weathering. Corrosion resistance depends on the stainless steel grades used for band and buckle components. Good vibration resistance.

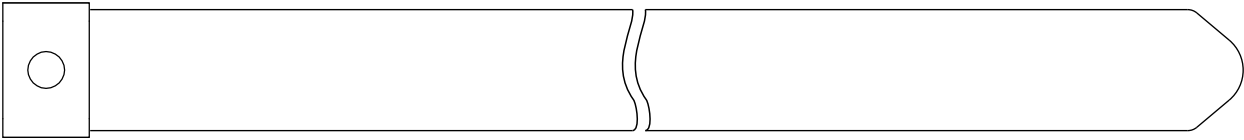
5. Installation Guidance

- **Select Tie:** Choose the preformed tie length appropriate for the bundle diameter.
- **Wrap:** Wrap the tie around the object(s) to be secured.
- **Insert Tail:** Feed the free end (tail) of the band into the Scru-lokt buckle housing, passing it under the screw mechanism according to the buckle design.
- **Apply Tension:** Using the correct tool (screwdriver/hex wrench), turn the tensioning screw clockwise. The screw threads will engage the band, pulling it tight. Continue tensioning until the desired tightness is achieved. **Do not overtighten.**
- **Inspect:** Ensure the band is properly seated in the housing and the clamp is secure. The tail end typically remains captured within the buckle assembly.

6. Associated Products

- **Installation Tool:** A specific manual or pneumatic tensioning tool designed to grip the band, apply tension, and cut the tail flush is required.
- **Hex Key:** 5/16" (8mm) hex key required for locking the band.

7. Specifications



Width		Thickness		Length (mm)	Optional Material
inch	mm	inch	mm		
3/8	9.5	0.015~0.028	0.4~0.7	300~2,000	SS304/316
1/2	12.7	0.015~0.028	0.4~0.7	300~2,000	SS304/316
5/8	16.0	0.015~0.028	0.4~0.7	300~2,000	SS304/316
3/4	19.0	0.015~0.028	0.4~0.7	300~2,000	SS304/316

Disclaimer: The information provided in this datasheet is intended as a general guide. Specific performance characteristics can vary based on the application conditions, installation quality, and the specific product variant. Users should evaluate the product suitability for their specific requirements and consult manufacturer-specific data. Manufacturer reserves the right to change specifications without notice.