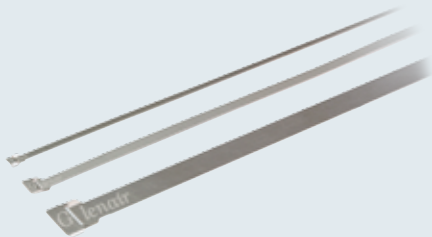


# Band-Master™ ATS

The Advanced Termination System for Interconnect Cable Shielding



3 lengths and 3 widths of  
EMI braid termination bands



Easy-to-use manual tools  
with built-in calibration counter



High-volume pneumatic tool  
for bench use

**JUNE 2014**

# Band-Master™ ATS

## Manual Tools and Bands



### Standard Banding Tool



Color-coded tensioning lever:  
black = standard



#### The 601-100 Standard Band-Master™ ATS Tool with Counter for Standard Bands

Weighs 1.18 lbs., and is designed for .24" width clamping bands in a tension range from 100 to 180 lbs. Calibrate at 150 lbs.  $\pm$  5 lbs. for most shield terminations. Tool and band should never be lubricated.

#### The 601-102 QPL Qualified (M81306/1A) Standard Band-Master™ ATS Tool without Counter



Weighs 1.18 and is designed for .24" width clamping bands in a tension range from 100 to 180 lbs. Calibrate at 150 lbs.  $\pm$  5 lbs. for most shield terminations. Tool and band should never be lubricated.

Band-Master™ ATS Band Selection

Bands	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Short Standard Band	9.0	228.6	<a href="#">601-005</a>	<a href="#">601-006</a>	1.0	25.4
Medium Standard Band	14.0	355.6	<a href="#">601-040</a>	<a href="#">601-041</a>	1.8	47.8
Long Standard Band	18.0	457.2	<a href="#">601-049</a>	<a href="#">601-050</a>	2.5	63.5
Short Micro Band	5.0	127.0	<a href="#">601-024</a>	<a href="#">601-025</a>	0.5	12.7
Medium Micro Band	8.0	203.2	<a href="#">601-060</a>	<a href="#">601-061</a>	.88	22.4
Long Micro Band	14.0	355.6	<a href="#">601-064</a>	<a href="#">601-065</a>	1.8	47.8
Short Nano Band	6.0	152.4	<a href="#">601-500</a>	<a href="#">601-501</a>	.60	15.2
Medium Nano Band	9.0	228.6	<a href="#">601-504</a>	<a href="#">601-505</a>	.94	23.9
Long Nano Band	14.0	355.6	<a href="#">601-508</a>	<a href="#">601-509</a>	1.8	47.8

Cable Pull Strength for Standard Bands

Name	Material Type	Band Width	Material Thickness	Tool Setting	Cable Pull Strength
Standard	304 SS	0.24"	.020"	150 lbs	160 lbs

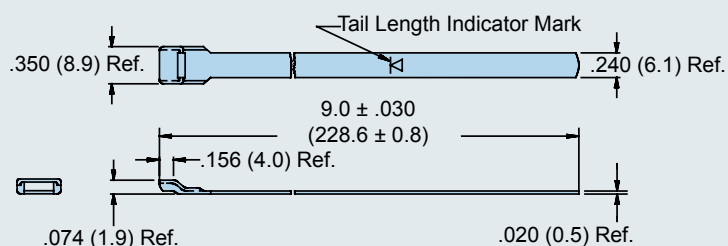


## Standard Bands

### Short Flat 601-005

### Short Precoiled 601-006

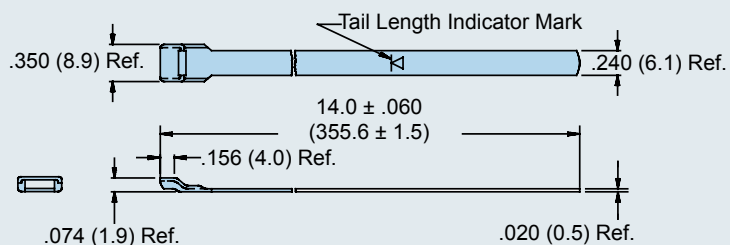
Standard bands are precision constructed of 300 Series SST/Passivate. Short standard bands are 9.00 inches (228.6) in length and designed for use with the Band-Master™ ATS 601-100 manual banding tool or the 601-104 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.0 inches (25.4).



### Medium Flat 601-040

### Medium Precoiled 601-041

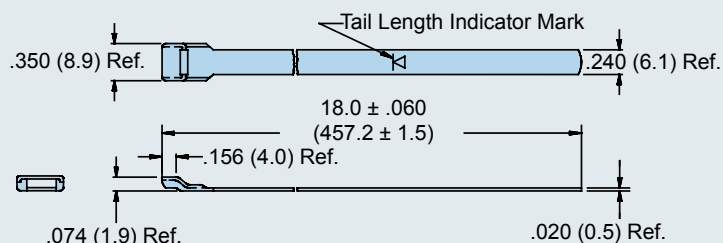
Standard bands are precision constructed of 300 Series SST/Passivate. Medium standard bands are 14.0 inches (355.6) in length and designed for use with the Band-Master™ ATS 601-100 manual banding tool or the 601-104 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.8 inches (45.7).



### Long Flat 601-049

### Long Precoiled 601-050

Standard bands are precision constructed of 300 Series SST/Passivate. Long standard bands are 18.0 inches (457.2) in length and designed for use with the Band-Master™ ATS 601-100 manual banding tool or the 601-104 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 2.5 inches (63.5).



# Band-Master™ ATS

## Manual Tools and Bands



### Micro Banding Tool



Color-coded tensioning lever:  
blue = micro

#### The 601-101 Micro Band-Master™ ATS Tool with Counter for Micro Bands

Weighs 1.18 lbs., and is designed for micro .120" width clamping bands in a tension range from 50 to 85 lbs. Calibrate at 80 lbs  $\pm$  5 lbs. for most shield terminations. Tool and band should never be lubricated.

#### The 601-103 QPL Qualified (M81306/1B) Standard Band-Master™ ATS Tool without Counter



Weighs 1.18 and is designed for micro .120" width clamping bands in a tension range from 50 to 85 lbs. Calibrate at 80 lbs  $\pm$  5 lbs. for most shield terminations. Tool and band should never be lubricated.

Band-Master™ ATS Band Selection

Bands	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Short Standard Band	9.0	228.6	601-005	601-006	1.0	25.4
Medium Standard Band	14.0	355.6	601-040	601-041	1.8	47.8
Long Standard Band	18.0	457.2	601-049	601-050	2.5	63.5
Short Micro Band	5.0	127.0	601-024	601-025	0.5	12.7
Medium Micro Band	8.0	203.2	601-060	601-061	.88	22.4
Long Micro Band	14.0	355.6	601-064	601-065	1.8	47.8
Short Nano Band	6.0	152.4	601-500	601-501	.60	15.2
Medium Nano Band	9.0	228.6	601-504	601-505	.94	23.9
Long Nano Band	14.0	355.6	601-508	601-509	1.8	47.8

Cable Pull Strength for Micro Bands

Name	Material Type	Band Width	Material Thickness	Tool Setting	Cable Pull Strength
Micro	304 SS	0.12"	.015"	80 lbs	80 lbs



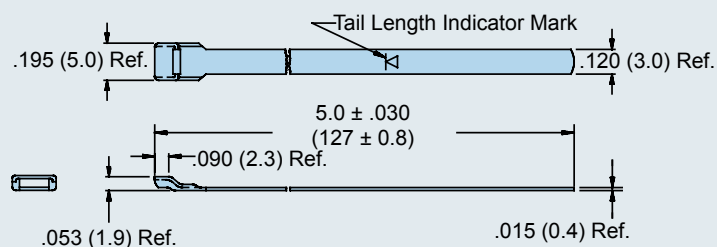


## Micro Bands

### Short Flat 601-024

### Short Precoiled 601-025

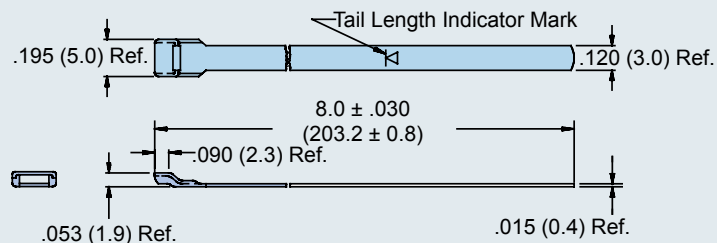
Micro Bands are precision constructed of 300 Series SST. Short micro bands are 5.00 inches (127) in length and designed for use with the Band-Master™ 601-101 hand banding tool or the 601-105 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .5 inches (12.7).



### Medium Flat 601-060

### Medium Precoiled 601-061

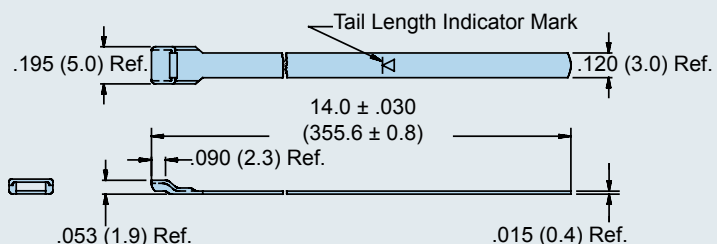
Micro Bands are precision constructed of 300 Series SST. Medium micro bands are 8.00 inches (203.2) in length and designed for use with the Band-Master™ 601-101 hand banding tool or the 601-105 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .88 inches (22.4).



### Long Flat 601-064

### Long Precoiled 601-065

Micro Bands are precision constructed of 300 Series SST. Long Micro Bands are 14.00 inches (355.6) in length and designed for use with the Band-Master™ 601-101 hand banding tool or the 601-105 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.88 inches (47.7).



# Band-Master™ ATS

## Manual Tools and Bands



### Nano Banding Tool



Color-coded tensioning lever:  
green = nano

#### The 601-108 Nano Band-Master™ ATS Tool with Counter for Nano Bands

Weighs 1.18 lbs., and is designed for nano flat .075" width clamping bands in a tension range from 20 to 50 lbs. Calibrate at 50 lbs.  $\pm$  3 lbs. for most shield terminations. Tool and band should never be lubricated.

Bands	Band-Master™ ATS Band Selection					
	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Short Standard Band	9.0	228.6	<a href="#">601-005</a>	<a href="#">601-006</a>	1.0	25.4
Medium Standard Band	14.0	355.6	<a href="#">601-040</a>	<a href="#">601-041</a>	1.8	47.8
Long Standard Band	18.0	457.2	<a href="#">601-049</a>	<a href="#">601-050</a>	2.5	63.5
Short Micro Band	5.0	127.0	<a href="#">601-024</a>	<a href="#">601-025</a>	0.5	12.7
Medium Micro Band	8.0	203.2	<a href="#">601-060</a>	<a href="#">601-061</a>	.88	22.4
Long Micro Band	14.0	355.6	<a href="#">601-064</a>	<a href="#">601-065</a>	1.8	47.8
Short Nano Band	6.0	152.4	<a href="#">601-500</a>	<a href="#">601-501</a>	.60	15.2
Medium Nano Band	9.0	228.6	<a href="#">601-504</a>	<a href="#">601-505</a>	.94	23.9
Long Nano Band	14.0	355.6	<a href="#">601-508</a>	<a href="#">601-509</a>	1.8	47.8

Cable Pull Strength for Nano Bands					
Name	Material Type	Band Width	Material Thickness	Tool Setting	Cable Pull Strength
Nano	304 SS	0.075"	.010"	50 lbs	100 lbs*

\* Nano Bands are work hardened to achieve higher cable pull force

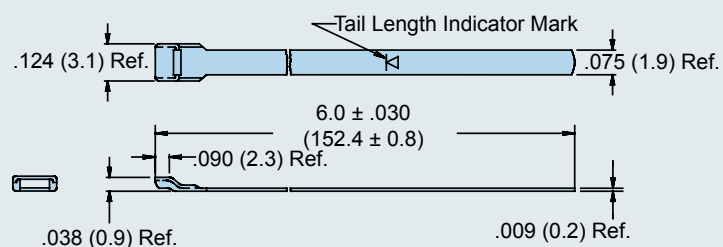


## Nano Bands

### Short Flat 601-500

### Short Precoiled 601-501

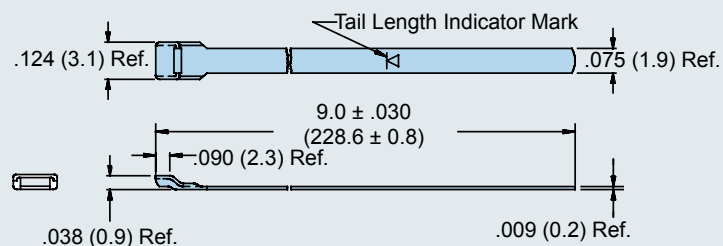
Nano Bands are precision constructed of work hardened, 300 Series SST for improved performance. Short nano bands are 6.00 inches (152.4) in length and designed for use with the 601-108 Band-Master™ ATS hand banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .60 inches (15.2).



### Medium Flat 601-504

### Medium Precoiled 601-505

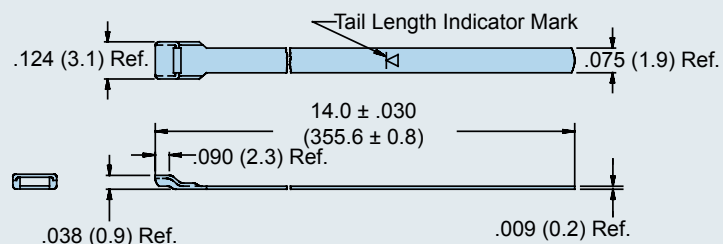
Nano Bands are precision constructed of work hardened, 300 Series SST for improved performance. Medium nano bands are 9.00 inches (228.6) in length and designed for use with the 601-108 Band-Master™ ATS hand banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .94 inches (23.9).



### Long Flat 601-508

### Long Precoiled 601-509

Nano Bands are precision constructed of work hardened, 300 Series SST for improved performance. Long nano bands are 14.00 inches (355.6) in length and designed for use with the 601-108 Band-Master™ ATS hand banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.8 inches (45.7).



# Band-Master™ ATS

## Manual Tools and Bands



### Slim Banding Tool



Color-coded tensioning lever:  
orange = slim standard

**Choose Glenair Slim Bands for size and weight savings. Slim bands are 50% lighter and 50% lower-profile than our standard bands, with similar performance.**

#### The 601-109 Slim Band-Master™ ATS Tool with Counter for Slim Bands

weighs 1.2 lbs., and is designed for slim standard flat .24" width clamping bands in a tension range from 50 to 100 lbs. Calibrate at 100 lbs.  $\pm$  5 lbs. for most shield terminations. Tool and band should never be lubricated.

Bands	Band-Master™ ATS Band Selection					
	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Short Slim Standard Band	9.0	228.6	601-570	601-571	1.0	25.4
Medium Slim Standard Band	14.25	362.0	601-572	601-573	1.8	47.8

Cable Pull Strength for Slim Standard Bands					
Name	Material Type	Band Width	Material Thickness	Tool Setting	Cable Pull Strength
Slim Standard	300 Series SST	0.240"	.010"	100 lbs. $\pm$ 5 lbs.	150 lbs.



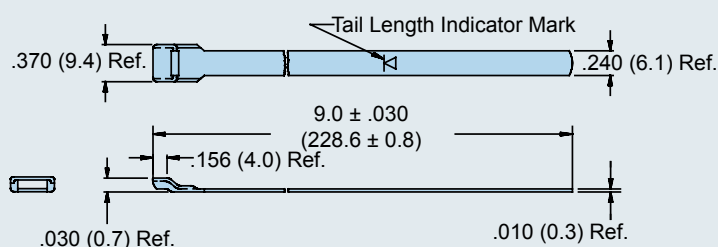


## Slim Standard Bands

### Short Flat 601-570

### Short Precoiled 601-571

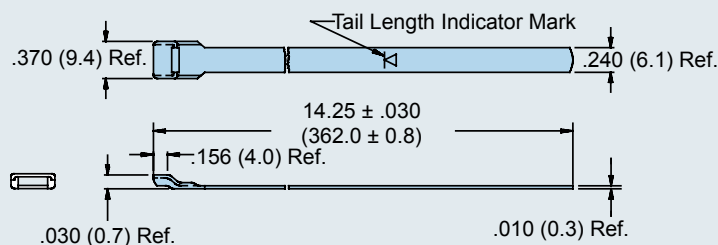
Slim Standard Bands are 50% lighter and 50% lower-profile than standard bands. They are precision constructed of work hardened, 300 Series SST for improved performance. Short slim bands are 9.00 inches (228.6) in length and designed for use with the 601-109 Band-Master™ ATS hand banding tool or the 601-110 pneumatic tool. Bands should always be double wrapped and will accommodate diameters up to approximately .94 inches (23.9).



### Medium Flat 601-572

### Medium Precoiled 601-573

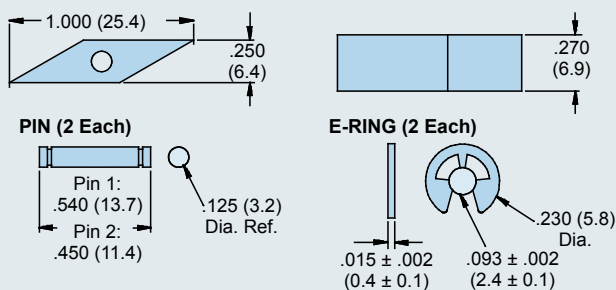
Slim Standard Bands are 50% lighter and 50% lower-profile than standard bands. They are precision constructed of work hardened, 300 Series SST for improved performance. Medium slim bands are 14.25 inches (228.6) in length and designed for use with the 601-109 Band-Master™ ATS hand banding tool or the 601-110 pneumatic tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.8 inches (45.7).



# Band-Master™ ATS

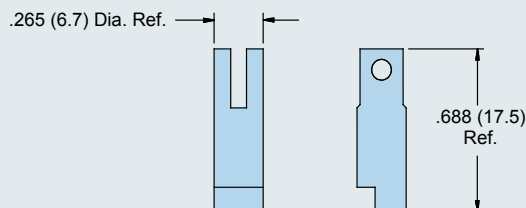
## Replacement Parts and Calibration Tools for Manual Banding Tools

### Cut Off Blade Kits and Knives



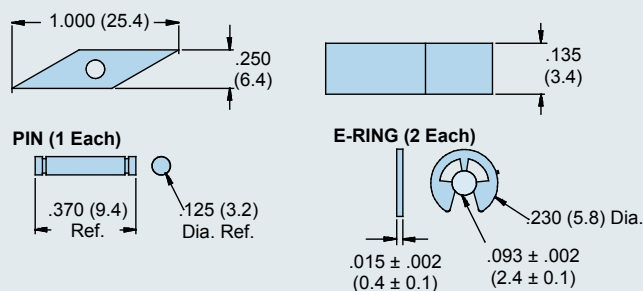
#### 601-302 Standard Cut-Off Blade Kit

*The 601-302 Standard Cut-Off Blade Kit* consists of the blade, two E-rings and one pin, providing all parts needed to replace the cut-off blade on the 601-100 Band-Master™ ATS standard manual banding tools and the 601-104 standard pneumatic banding tool. Material is heat treated steel finished with black oxide and rust preventative.



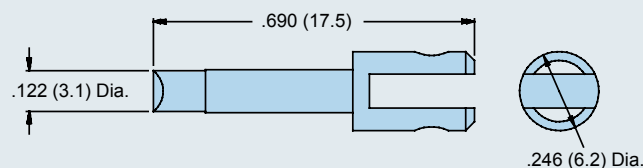
#### 601-301 Standard Cutter Knife

*The 601-301 Standard Cutter Knife* replaces the cutter knife on the 601-100 Band-Master™ ATS standard manual banding tool and the 601-104 standard pneumatic banding tool. Material is heat treated steel finished with black oxide and rust preventative.



#### 601-305 Micro Cut-Off Blade Kit

*The 601-305 Micro Cut-Off Blade Kit* consists of the blade, two E-rings and one pin, providing all parts needed to replace the cut-off blade on the 601-101 Micro Band-Master™ ATS manual banding tool and the 601-105 pneumatic micro banding tool. Material is heat treated steel finished with black oxide and rust preventative.

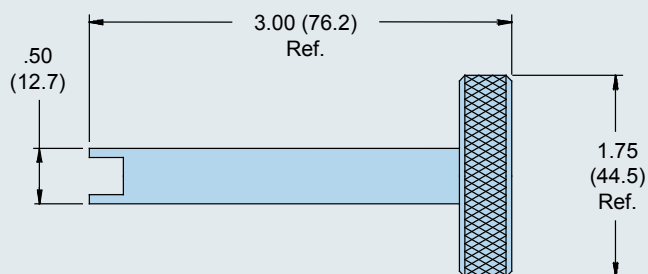


#### 601-303 Micro Cutter Knife

*The 601-303 Micro Cutter Knife* replaces the cutter knife on the 601-101 Micro Band-Master™ ATS Micro manual banding tool, and the 600-105 pneumatic banding tool. Material is heat treated steel finished with black oxide and rust preventative.

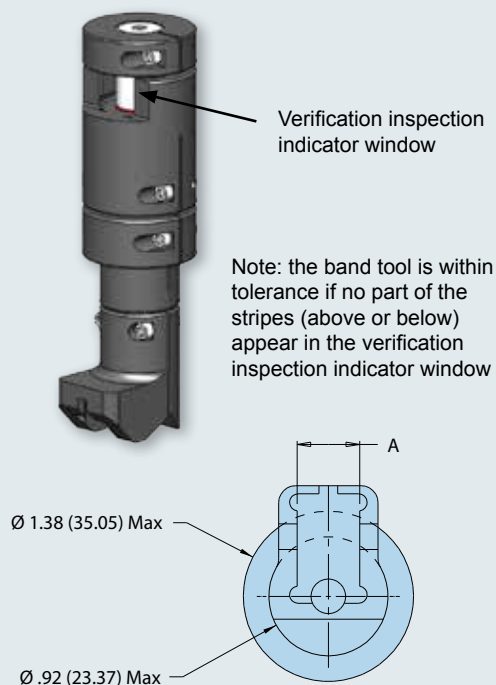


## Calibration Keys and Tension Gauges



### 601-205 Calibration Key

**The 601-205 Calibration Key** is designed for use with 601-100 and 601-101 manual banding tools. Material is black anodized aluminum alloy. One full turn clockwise will advance the tension range by 25 lbs., and a counter-clockwise turn will decrease tension by the same amount. Recommended for use with 601-211 and 601-212.

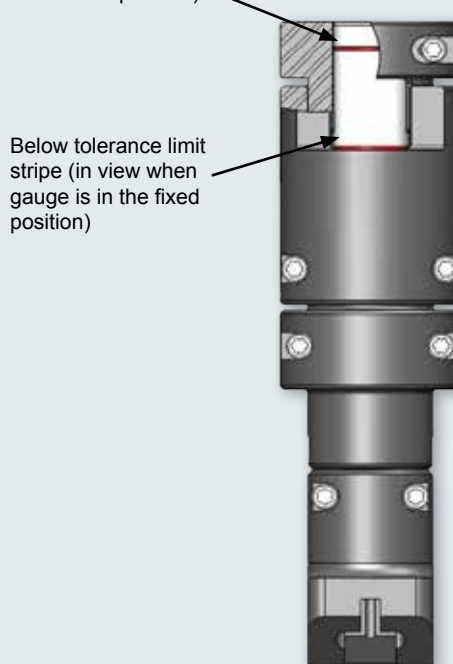


### 601-211 and 601-212 Tension Gauge

**The 601-211 (M81306/1C) and 601-212 (M81306/D) Tension Gauge** is used to check and calibrate the manual tool to values noted on calibration sticker. Constructed of hardened steel.

Above tolerance limit stripe (not visible when gauge is in the fixed position)

Below tolerance limit stripe (in view when gauge is in the fixed position)

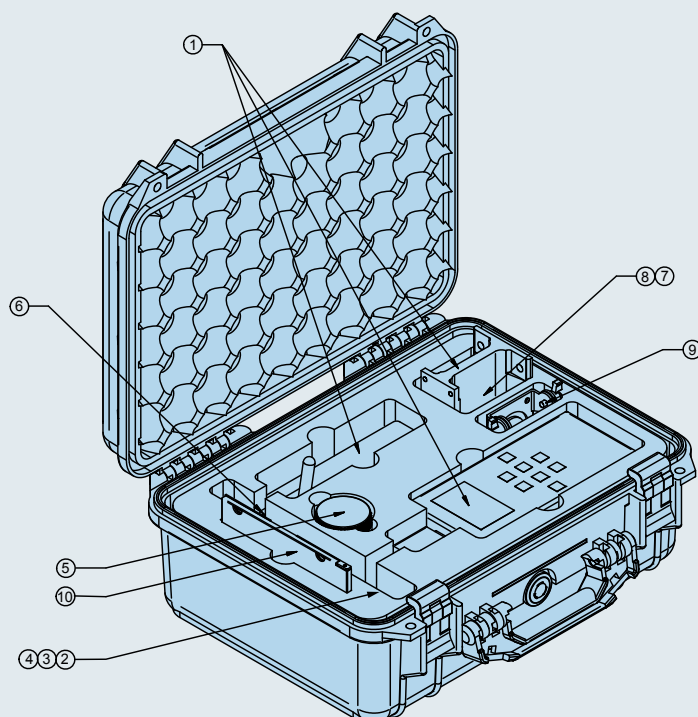


Part No.	SAE Part No. (Ref)	A +.015 (0.38) -.005 (0.13)	Used with Manual Tool P/N
601-211	M81306/1C	.460 (11.68)	Standard 601-100 • 600-058 (M81306/1-01 Kit)
601-212	M81306/1D	.360 (9.14)	Micro 601-101 • 600-061 (M81306/1-02 Kit)
601-205	M81306/1E	N/A	Both

# Band-Master™ ATS

## Calibration Kits, Accessories and Pneumatic Banding Tools

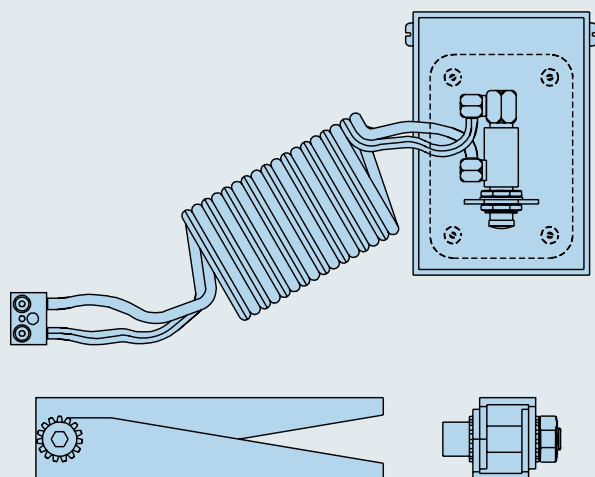
### Calibration Kits and Accessories



#### 601-200 Calibration Kit For All Banding Tools

**The 601-200 Calibration Kit** includes the (1) 601-200-3 calibration device, (2) fifty 601-203 Micro test bands, (3) fifty 601-202 Standard test bands, (4) fifty 601-217 Nano test bands, (5) 601-205 calibration key, (6) Standard tool adapter 601-218 for 601-100, 600-058 installed (7) Standard Pneumatic tool adapter 601-219 for 600-067, 601-104 (8) Micro tool adapter 601-220 for 601-101, 601-105, 601-108, 600-061, and 600-068 (9) Adjustable mounting bracket for meter (10) Data logging software

Range of the calibration device is 0 to 500 lbs, and accuracy is calibrated to  $\pm 1$  lbs. at factory. Digital readout in .1 lb. increments. Meter supplied with RS0232 serial communication port on rear of meter case. Serial/USB adapter cable not supplied.



#### 601-400 Foot Pedal Control for 601-104 and 601-105 Pneumatic Banding Tools

**The 601-400 Foot Pedal Control** frees both hands to help assure more accurate, reliable and faster shield terminations.



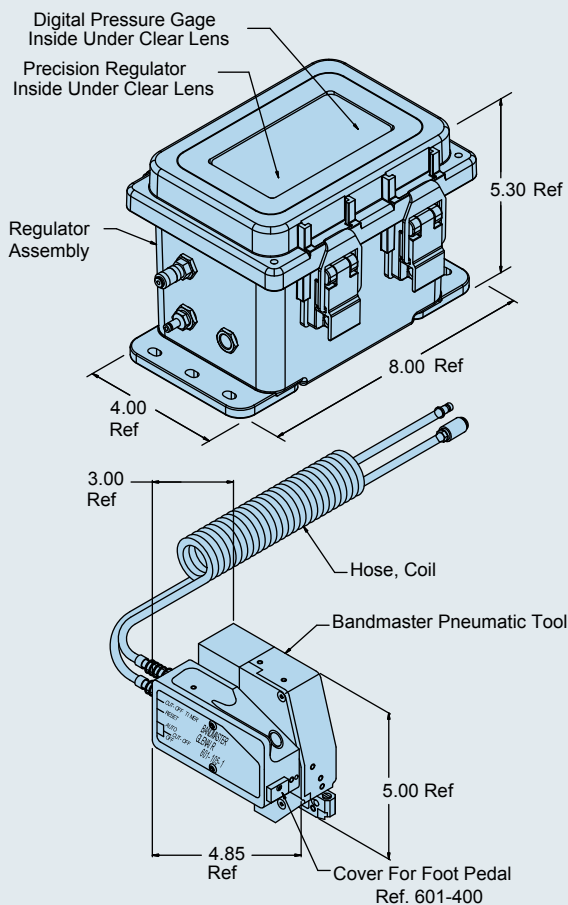


## Pneumatic Banding Tools

### High-Volume Pneumatic Bench-Mount Units and Calibration Kits Available for Both Micro and Standard Band Termination Systems

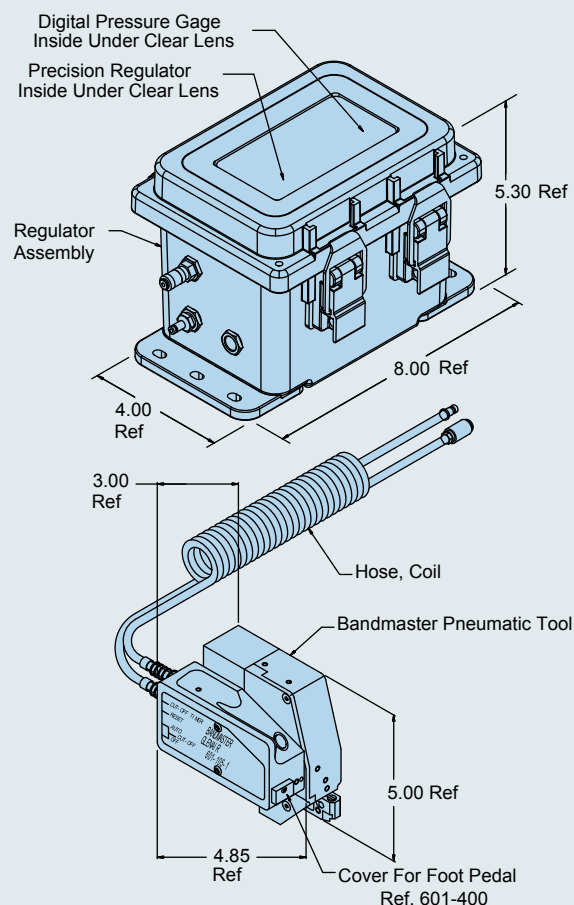
#### 601-104 Pneumatic Standard Banding Tool

**The 601-104 Standard Banding Tool** accommodates standard 601-005, 601-040 and 601-049 bands in a tension range of from 100-180 lbs. Calibrate at 150 lbs.  $\pm$  5 lbs for most shield terminations. Weight of the tool is 2.52 lbs (1.14 Kg); the control box weighs 3.51 lbs (1.59 Kg).



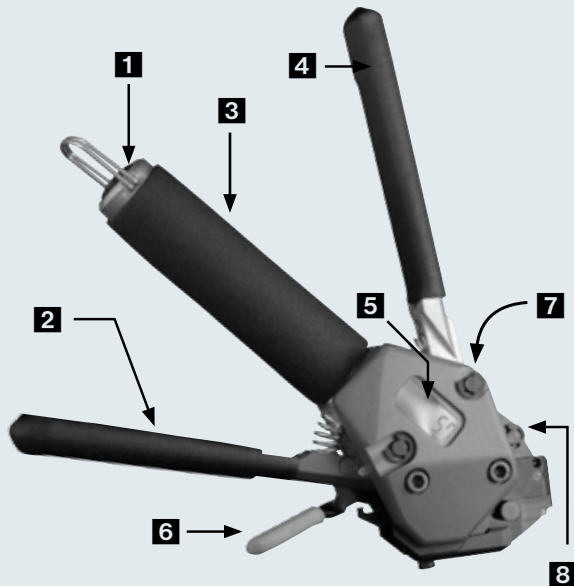
#### 601-105 Pneumatic Micro Banding Tool

**The 600-105 Pneumatic Micro Banding Tool** accommodates 601-024, 601-060 and 601-064 Micro Bands in a tension range of from 60 to 90 lbs. Calibrate at 80 lbs  $\pm$  5 lbs for most shield terminations. Weight of the tool is 2.52 lbs (1.14 Kg); the control box weighs 3.51 lbs (1.59 Kg).



# Band-Master™ ATS

## Shield Termination Assembly Process



### 1 Calibration Access Plug

### 2 Tensioning Lever:

Squeeze with short gentle strokes to tighten band to the proper tension. Lever will lock to 3 Handle with final full stroke.

### 4 Cut-Off Lever:

Squeeze to lock band buckle and trim excess band material.

### 5 Calibration Counter

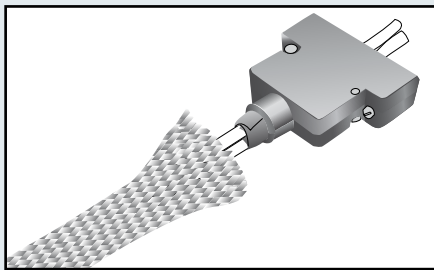
6 Band Insertion and Release Lever: Depress lever to insert or release band from tool.

### 7 Serial Number

### 8 Tension Release Lever

### NOTES:

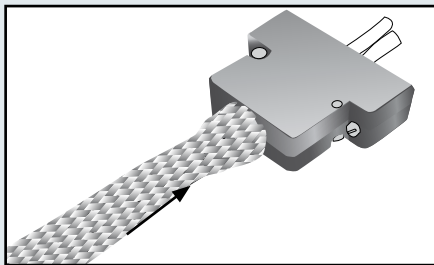
1. Use only genuine Band-Master™ ATS bands. Other manufacturer's bands may damage tool.
2. Use only .240" wide bands with 601-100 tool and .120" wide bands with 601-101 tool.



### Step 1

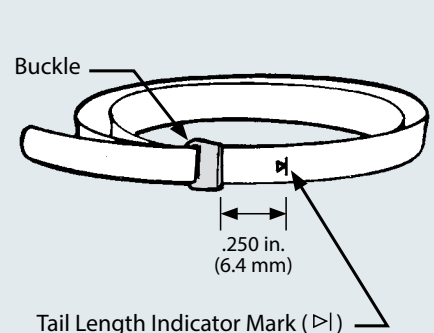
Prepare Cable Braid for termination process

**NOTE:** Complete banding on an unfixtured cable assembly. Terminating a band to a clamped or fixtured cable will affect the applied forces and interfere with the cut-off operation. The cut-off operation causes a rotation of the band termination in order to lock the band.



### Step 2

Push braid forward over banding platform. Milk braid as required to remove slack and ensure a snug fit around the shield termination area.



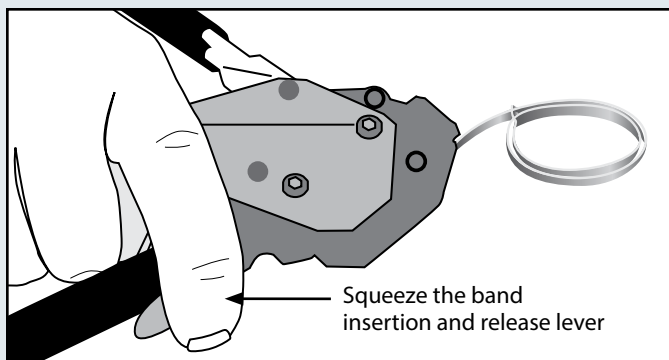
### Step 3

Double-coil the band prior to use:

**IMPORTANT:** Due to connector/adaptor circumference, it may be necessary to double-coil the band in place around the cable or termination area.

A. Loop/insert the leading edge of band through the buckle slot twice. (Bands *must* be double-coiled.)

B. Tighten the coil until the indicator mark (▷) is approximately .250 inches (6.4) shy of the buckle slot (see illustration at left). This will ensure sufficient band tail length for insertion into tool.



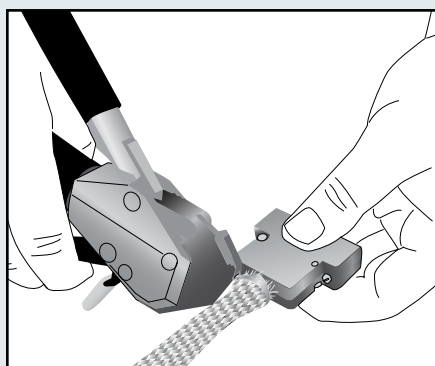
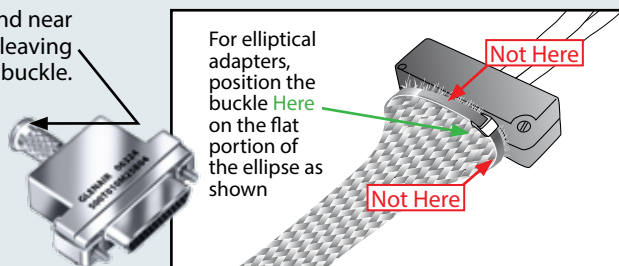
#### Step 4

Depress the band insertion and release lever (6), and insert the working end of the band into the front end opening of the tool, with the loop positioned outward as shown.

#### Step 5

The band termination area on all backshells is wider than the band. Position the band near the rear lip of the banding platform, allowing room for the buckle. For elliptical cable entries position the buckle off center of the peak of the circle. Failure to follow these guidelines will result in poor performance.

Position the band near the rear lip leaving room for buckle.



#### Step 6

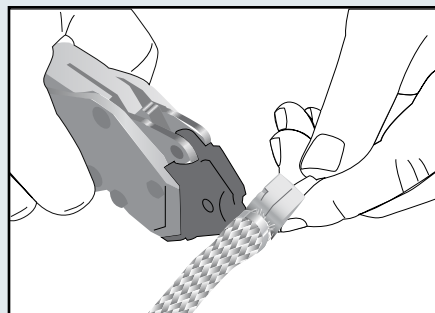
Contract the band with the tensioning lever (2) using short, even strokes. As the band contracts firmly on the termination area, pull a full stroke to lock the lever against the main tool handle which will indicate the band is compressed to the proper tension.

**NOTE:** Overly rapid tightening of the band may result in uneven compression. If alignment of the band and shield is unsatisfactory, tension can be relaxed by pulling up on the tensioning lever (2) and then pushing the tension release lever (8) forward. Make adjustments as necessary and finish tightening with tensioning lever (2) as described above. Instructional videos are available at [www.glenair.com/banding/](http://www.glenair.com/banding/)

#### Step 7

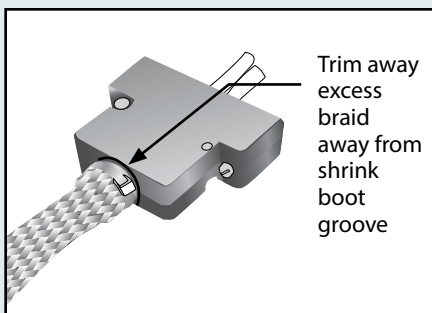
Complete the clamping process by depressing the cut-off lever (4), allowing band and cable to rotate slightly. Pull up the release lever (6) to remove excess band for disposal.

**NOTE:** Always band on an unfixtured connector/cable assembly.



#### Step 8

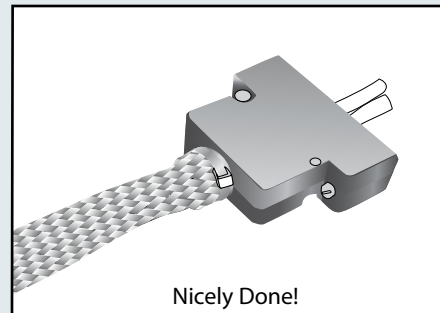
Trim away excess braid from the forward groove, particularly if a shrink boot is to be applied to the assembly.



#### Step 9

Visually inspect shield termination for problems.

**NOTE:** Band can be removed by lifting the buckle with a screwdriver or diagonal cutters.





HEAVY-DUTY

# Interconnect Assembly Tools

The right tool for every interconnect  
assembly requirement







**G**lenair offers its connector and connector accessory customers every convenience in the provision of contact termination, shield termination, and backshell-to-connector assembly tooling. We are also proud to offer branded solutions from other well-known tool manufacturers such as Daniels (DMC) crimp tools. From pneumatic Earth-Bond tooling for the rail industry, to fiber optic termination and test equipment, Glenair is your most knowledgeable and reliable source for special-purpose interconnect assembly tooling.

### Backshell-to-Connector Assembly Tools



### BandMaster™ ATS EMI/RFI Shield Termination System



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