

# Band-Master ATS®

The Advanced Termination System for Interconnect Cable Shielding



High-volume pneumatic tool  
for bench use



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



3 lengths and 3 widths of  
EMI braid termination bands

SEPTEMBER 2020

# Band-Master ATS®

## Manual Tools and Bands



### Standard Banding Tool



Color-coded tool handle:



= Standard; Black

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

Weighs approximately 1.30 lbs., and is designed for .240" 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 600-058 QPL Qualified (M81306/1A) Standard Banding Tool without Counter



Weighs 1.22 and is designed for .240" 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 (not shown).

Band-Master ATS® Standard Band Selection						
Bands	Length		Part Number		Fits Diameter	
	In.	mm.	Flat	Pre-Coiled	In.	mm.
Short Standard	9.0	228.6	<b>601-005</b>	<b>601-006</b>	1.0	25.4
Medium Standard	14.25	361.95	<b>601-040</b>	<b>601-041</b>	1.8	45.7
Long Standard	18.0	457.2	<b>601-049</b>	<b>601-050</b>	2.5	63.5

Cable Pull Strength for Band-Master™ ATS Standard Bands							
Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Standard	300 SS	0.240	6.10	.020	.51	150 $\pm$ 5 lbs	per AS85049/128

QPL Qualified Standard Band Selection						
Bands	Length		Mil Spec Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Standard Band	14.25	361.95	<b>M85049/128-3</b>	<b>M85049/128-4</b>	1.8	45.7

Cable Pull Strength for Standard QPL Qualified Bands							
Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Standard	300 SS	0.240	6.10	.020	.51	150 $\pm$ 5 lbs	per AS85049/128

Knife and Blade and Replacement / Upgrade Kit						
Tool		Replacement Part Number(s)				
601-100 Band-Master Standard		601-330 Knife and Blade Kit				
600-058 QPL Qualified Tool		Contact Factory				

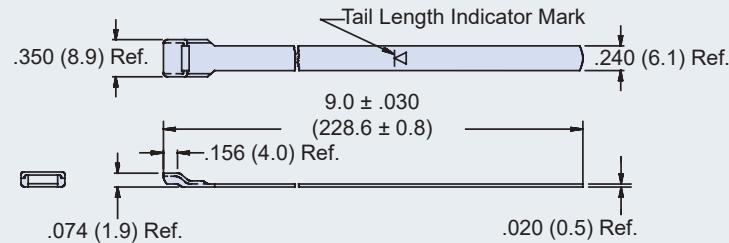


## Standard Bands

### Short Flat 601-005

### Short Precoiled 601-006

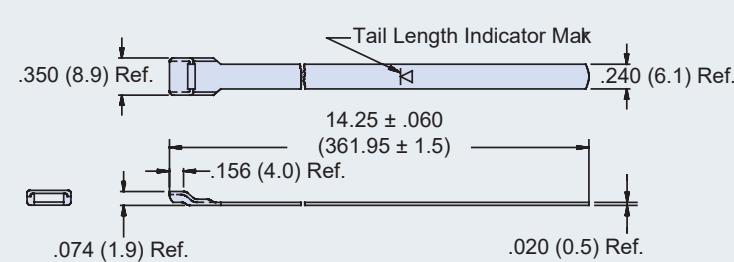
Standard Bands are precision constructed of 300 Series SST passivate IAW AMS 2700. Short Standard Bands are 9.00 inches (228.6) in length and designed for use with the Band-Master ATS® 60-100 manual banding tool or the 601-106 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.0 inches (25.4).



### Medium Flat 601-040

### Medium Precoiled 601-041

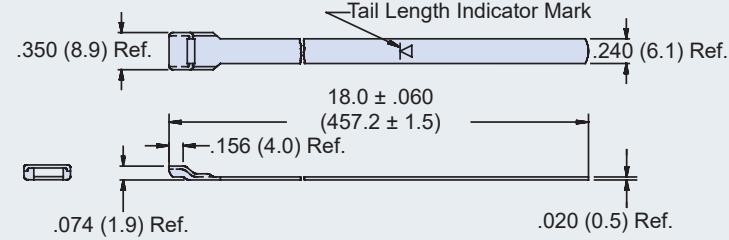
Standard bands are precision constructed of 300 Series SST passivate IAW AMS 2700. Medium Standard Bands are 14.25 inches (361.95) in length and designed for use with the Band-Master ATS® 601-100 manual banding tool or the 601-106 pneumatic banding tool. Bands should always be double wrapped and will 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 IAW AMS 2700. 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 601-106 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



### Slim Standard Banding Tool



Color-coded tool handle



= Slim Standard; Orange

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

#### **The 601-109 Band-Master ATS® Slim Standard Tool with Counter for Slim Standard Bands**

For use with slim standard flat and pre-coiled quarter inch wide clamping bands. Tension range is approximately 30 to 80 lbs. Calibrate at 100 lbs.  $\pm 3$  lbs of linear pull. Tool weighs 1.2 Lb. Tool and band should never be lubricated.

Band-Master ATS® Slim Standard Band Selection						
Bands	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Short Slim Standard	9.0	228.6	601-570	601-571	.94	23.9
Medium Slim Standard	14.25	361.95	601-572	601-573	1.8	45.7

Cable Pull Strength for Band-Master ATS® Slim Standard Bands							
Name	Material Type	Band Width		Band Thickness		Tool Setting	Cable Pull Strength
		In	mm	In	mm		
Slim Standard	300 Series SST	0.240	6.09	.010	.25	100 lbs. $\pm 3$ lbs.	150 lbs.*

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

Knife and Blade and Replacement / Upgrade Kit			
Tool	Replacement Part Number(s)		
601-109 Band-Master Slim Standard	601-331 Knife and Blade Kit		



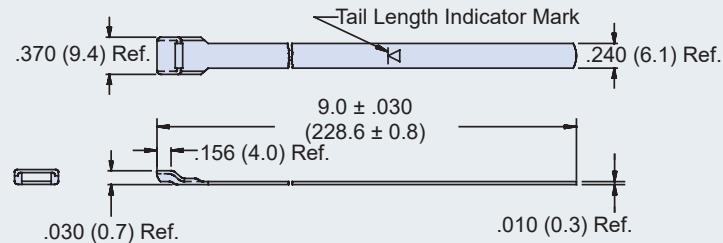
## Slim Standard Bands

**Slim bands are better at conforming to irregular platform shapes (elliptical platforms) and individual braid buildup (pig tails)**

### Short Flat 601-570

### Short Precoiled 601-571

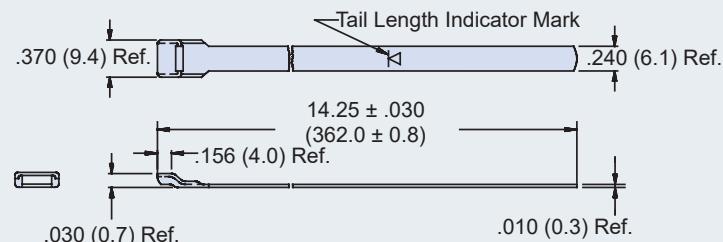
Slim Standard Bands are 50% lighter and 50% lower-profile than Standard Bands. They are precision constructed of work hardened, 300 Series SST passivate IAW AMS 2700. Short Slim Bands are 9.00 inches (228.6) in length and designed for use with the 601-109 Band-Master ATS® hand banding tool or the 601-110 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 passivate IAW AMS 2700. Medium Slim Bands are 14.25 inches (362.0) 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

## Manual Tools and Bands



### Micro Banding Tool



Color-coded tool handle:



= Micro; Blue

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

Weighs approximately 1.20 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 600-061 QPL Qualified [M81306/1B] Micro Banding Tool without Counter**



Weighs 1.11 and is designed for Micro .120" width clamping bands in a tension range from 60 to 85 lbs. Calibrate at 80 lbs  $\pm 5$  lbs. Tool and band should never be lubricated.

#### **Band-Master ATS® Micro Band Selection**

Bands	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Short Micro	5.0	127.0	<b>601-024</b>	<b>601-025</b>	0.5	12.7
Medium Micro	8.125	206.38	<b>601-060</b>	<b>601-061</b>	.88	22.4
Long Micro	14.25	361.95	<b>601-064</b>	<b>601-065</b>	1.8	45.7

#### **Cable Pull Strength for Band-Master ATS® Micro Bands**

Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Micro	300 SS	0.120	3.05	.015	.38	80 $\pm 5$ lbs	per AS85049/128

#### **QPL Qualified Micro Band Selection**

Bands	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Standard Micro	8.125	206.38	<b>M85049/128-7</b>	<b>M85049/128-8</b>	.88	22.4

#### **Cable Pull Strength for Micro QPL Qualified Bands**

Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Micro	300 SS	0.120	3.05	.015	.38	80 $\pm 5$ lbs	per AS85049/128

#### **Knife and Blade and Replacement / Upgrade Kit**

Tool	Replacement Part Number(s)
601-101 Band-Master Micro	601-329 Knife and Blade Kit
600-061 QPL Qualified	Contact Factory

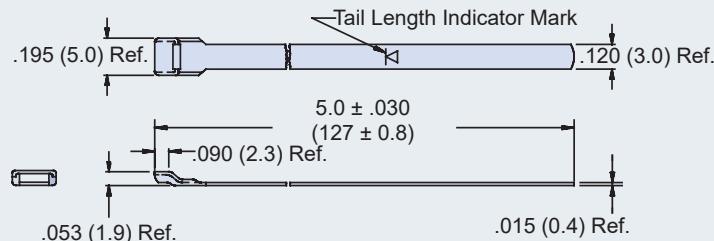


## **Micro Bands**

### **Short Flat 601-024**

### **Short Precoiled 601-025**

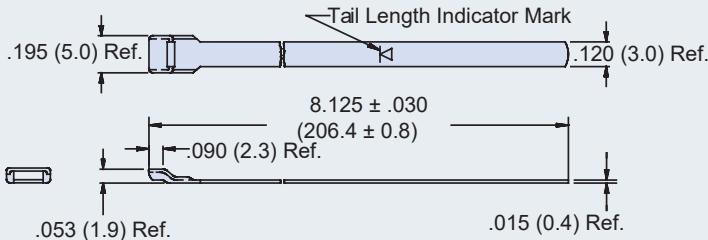
Micro Bands are precision constructed of 300 Series SST passivate IAW AMS 2700. Short Micro Bands are 5.00 inches (127) in length and designed for use with the Band-Master™ 601-101 hand banding tool or the 601-107 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .5 inches (12.7).



### **Medium Flat 601-060**

### **Medium Precoiled 601-061**

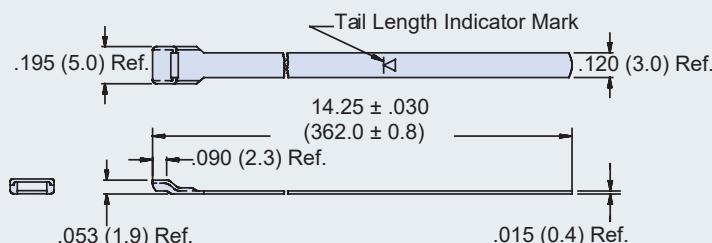
Micro Bands are precision constructed of 300 Series SST passivate IAW AMS 2700. Medium Micro Bands are 8.00 inches (203.2) in length and designed for use with the Band-Master™ 601-101 hand banding tool or the 601-107 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .88 inches (22.4).



### **Long Flat 601-064**

### **Long Precoiled 601-065**

Micro Bands are precision constructed of 300 Series SST passivate IAW AMS 2700. 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 601-107 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.88 inches (47.8).



# Band-Master ATS®

## Manual Tools and Bands



### Micro Slim Banding Tool



Color-coded tool handle:



= Micro Slim; Yellow

#### **The 601-122 Band-Master ATS® Micro Slim Tool with Counter for use with Micro Slim Bands**

Weighs approximately 1.20 lbs., and is designed for Micro Slim .120 (3.05) width clamping bands in a tension range from 60 to 90 lbs. Double wrapped bands will accommodate up to .88 (22.35) inch diameter. Calibrate at 82 lbs  $\pm 3$  lbs. for most shield terminations. Tool and band should never be lubricated.

Band-Master ATS® Micro Slim Band Selection						
Bands	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Medium Micro Slim	8.125	206.38	601-600	601-601	.88	22.4
Long Micro Slim	14.25	361.95	601-602	601-603	1.80	45.7

Cable Pull Strength for Band-Master ATS® Micro Slim Bands							
Name	Material Type	Band Width		Band Thickness		Calibration Setting	Cable Pull Strength
		In	mm	In	mm		
Micro Slim	300 SST Work Hardened/Passivate	0.12w	3.05	.010	0.25	82 $\pm 3$ lbs	80 lvs

Knife and Blade and Replacement / Upgrade Kit			
Tool	Replacement Part Number(s)		
601-122 Band-Master Micro Slim	601-328 Knife and Blade Kit		



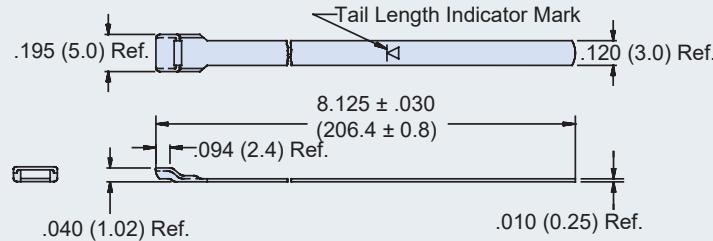
## Micro Slim Bands

**Slim bands are better at conforming to irregular platform shapes (elliptical platforms) and individual braid buildup (pig tails)**

### **Medium Flat 601-600**

### **Medium Precoiled 601-601**

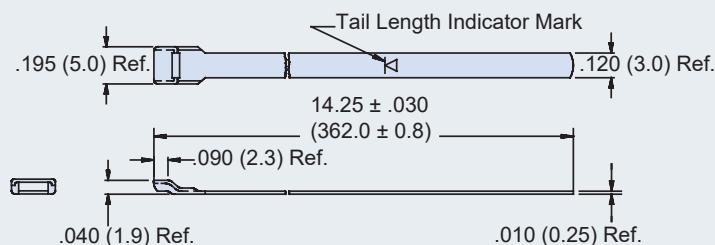
Micro Slim bands are precision constructed of 300 Series SST passivate IAW AMS 2700. Medium Micro Slim bands are 8.00 inches (203.2) in length and designed for use with the Band-Master™ 601-122 hand banding tool or the 601-123 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .88 inches (22.4).



### **Long Flat 601-602**

### **Long Precoiled 601-603**

Micro Slim bands are precision constructed of 300 Series SST passivate IAW AMS 2700. Long Micro Slim Bands are 14.00 inches (355.6) in length and designed for use with the Band-Master™ 601-122 hand banding tool or the 601-123 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.88 inches (45.7).



# Band-Master ATS®

## Manual Tools and Bands



### Nano Banding Tool



Color-coded tool handle:



= Nano; Green

#### **The 601-108 Band-Master ATS® Nano Tool with Counter for use with Nano Bands**

Weighs 1.15 lbs., and is designed for use with Nano flat .075" width clamping bands in a tension range from 25 to 90 lbs. Calibrate at 50 lbs.  $\pm$  3 lbs. for most shield terminations. Tool and band should never be lubricated.

Band-Master ATS® Nano Band Selection						
Bands	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Short Nano	6.0	152.4	<b>601-500</b>	<b>601-501</b>	.60	15.2
Medium Nano	9.0	228.6	<b>601-504</b>	<b>601-505</b>	.94	23.9
Long Nano	14.0	355.6	<b>601-508</b>	<b>601-509</b>	1.8	45.7

Cable Pull Strength for Band-Master ATS® Nano Bands							
Name	Material Type	Band Width		Band Thickness		Calibrated Setting	Cable Pull Strength
		In.	mm.	In.	mm.		
Nano	300 SS	0.075	1.91	.009	.23	50 $\pm$ 3 lbs	50 lbs*

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

Knife and Blade and Replacement / Upgrade Kit							
Tool		Replacement Part Number(s)					
601-108 Band-Master Micro Slim		601-332 Knife and Blade Kit					

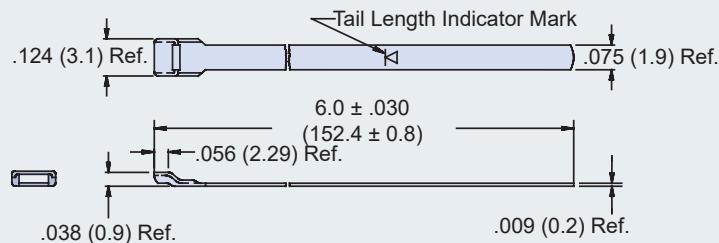


## Nano Bands

### Short Flat 601-500

### Short Precoiled 601-501

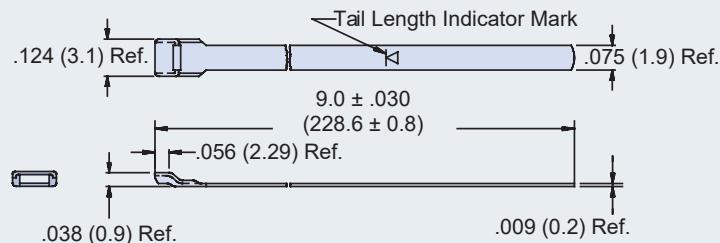
Nano Bands are precision constructed of work hardened, 300 Series SST passivate IAW AMS 2700. Short Nano Bands are 6.00 inches (152.4) in length and designed for use with the 601-108 Band-Master ATS® hand banding tool or the 601-118 pneumatic banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .60 inches (15.2).



### Medium Flat 601-504

### Medium Precoiled 601-505

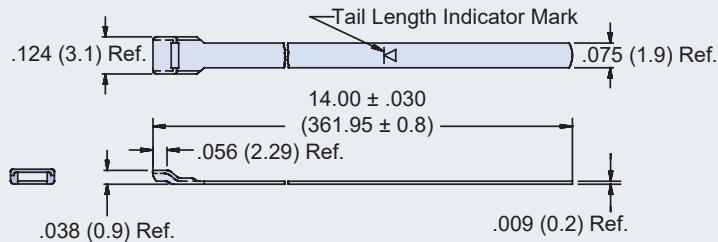
Nano Bands are precision constructed of work hardened, 300 Series SST passivate IAW AMS 2700. Medium Nano Bands are 9.00 inches (228.6) in length and designed for use with the 601-108 Band-Master ATS® hand banding tool or the 601-118 pneumatic banding tool. Bands should always be double wrapped and will 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 passivate IAW AMS 2700. Long Nano Bands are 14.00 inches (361.95) in length and designed for use with the 601-108 Band-Master ATS® hand banding tool or the 601-118 pneumatic 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



### Micro-Max Banding Tool



Color-coded tool handle:



= Micro-Max; Purple

#### **The 601-129 Band-Master ATS® Micro-Max with Counter for use with Micro-Max Bands**

Weighs approximately 1.20 lbs, and is designed for Micro-Max .120" width clamping bands in a tension range from 100-180 lbs. Calibrate at  $132 \pm 3$  lbs. for most shield terminations. Tool and Band should never be lubricated."

Band-Master ATS® Micro-Max Band Selection						
Bands	Length		Part Number		Fits Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
Flat Micro-Max	8.125	206.38	<b>601-700</b>	<b>601-701</b>	.88	22.4
Flat Micro-Max	14.25	361.95	<b>601-702</b>	<b>601-703</b>	1.8	45.72

Cable Pull Strength for Band-Master ATS® Micro-Max Bands							
Name	Material Type	Band Width		Band Thickness		Calibrated Setting	Cable Pull Strength
		In.	mm.	In.	mm.		
Micro-Max	304 SS 1/2 Hard	.12	3.05	.015	0.38	$132 \pm 3$ lbs	160 lbs

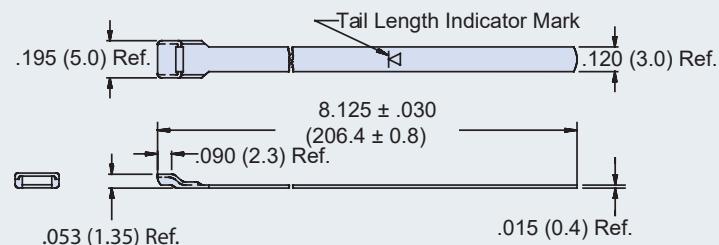
Knife and Blade and Replacement / Upgrade Kit			
Tool	Replacement Part Number(s)		
601-129 Micro-Max Hand Banding	601-329 Knife and Blade Replacement		



## **Micro-Max Bands**

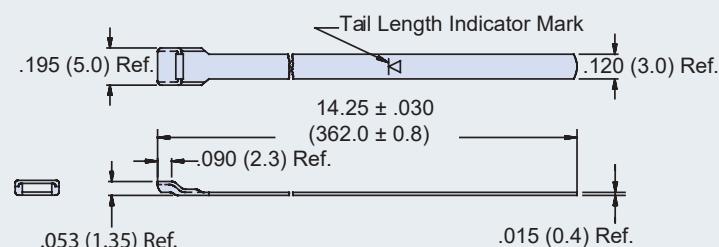
### **Flat 601-700 Precoiled 601-701**

Micro-Max bands are precision constructed of 300 Series SST passivate IAW AMS 2700. Medium Micro Slim bands are 8.00 inches (203.2) in length and designed for use with the Band-Master ATS® 601-129 hand banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately .88 inches (22.4).



### **Long Flat 601-702 Long Precoiled 601-703**

Micro-Max bands are precision constructed of 300 Series SST passivate IAW AMS 2700. Long Micro-Max bands are 14.00 inches (355.60) in length and designed for use with the Band-Master ATS® 601-129 hand banding tool. Bands should always be double wrapped and will accommodate diameters up to approximately 1.88 inches (47.8).

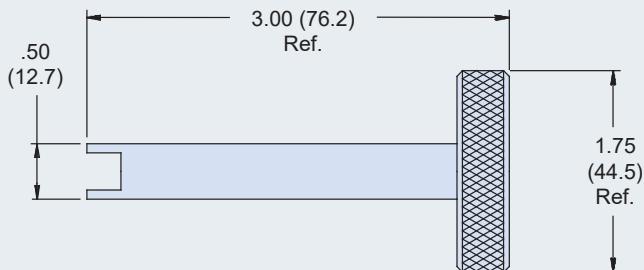


# Band-Master® ATS

## Calibration Tools and Kits



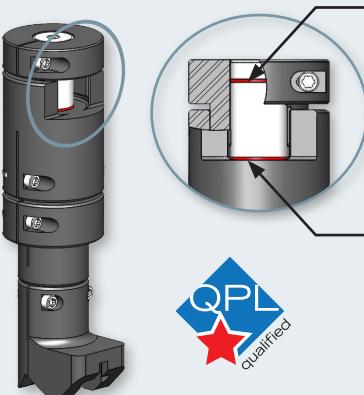
### Calibration Keys and Tension Gauges



#### 601-205 Calibration Key

**The 601-205 Calibration Key** is designed for use with 600-058, 600-061, 601-211 and 601-212 manual banding tools. Material is black anodized aluminum alloy. One full turn clockwise will advance the tension range approximately 1.0 - 2.5 lbs, a counter-clockwise turn will decrease tension by the same amount.

#### Verification inspection window



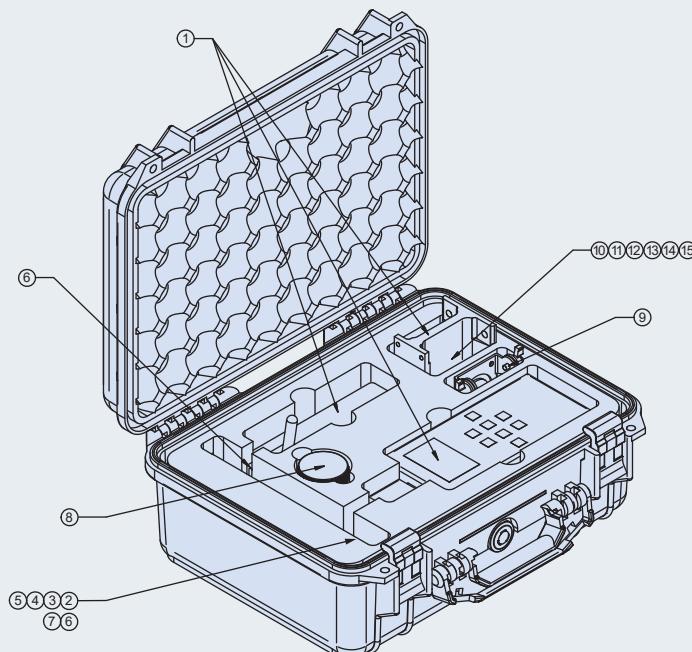
#### 601-211 and 601-212 Tension Gauge

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

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



## Calibration Kits



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

**The 601-200 Calibration Kit** includes:

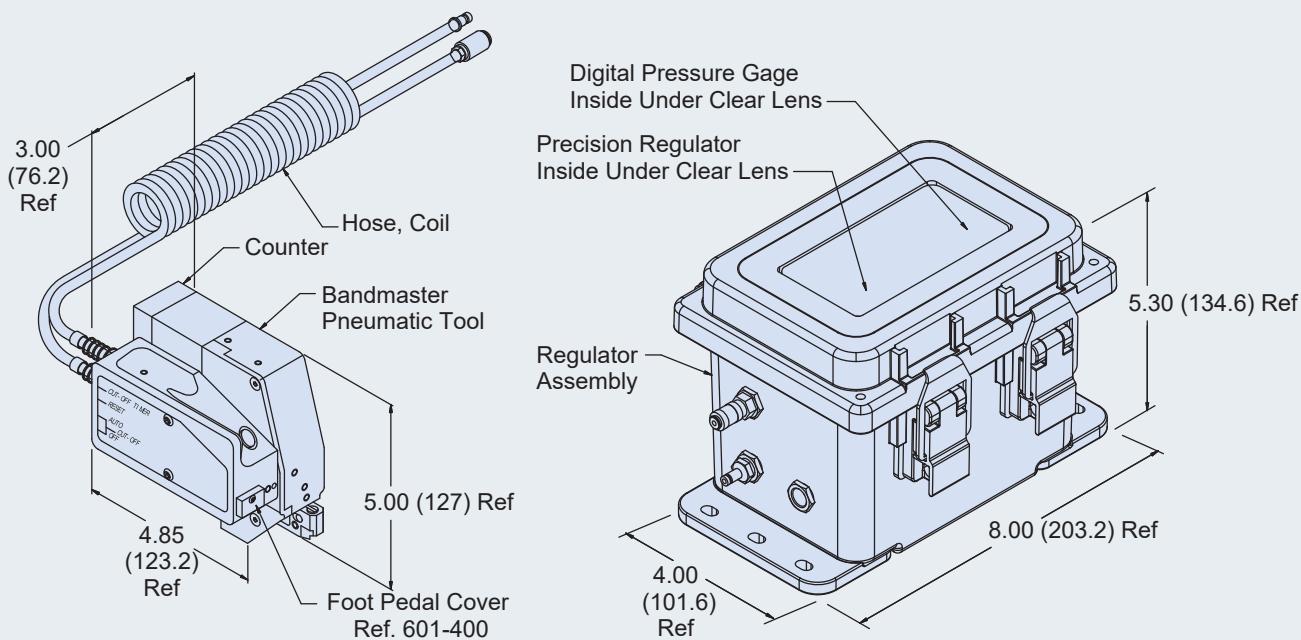
1. 601-200-3 calibration device
2. Fifty 601-203 Micro test bands
3. Fifty 601-202 Standard test bands
4. Fifty 601-217 Nano test bands
5. Fifty 601-224 Slim Standard test bands
6. Fifty 601-227 Micro Slim test bands
7. Fifty 601-230 Micro-Max test bands
8. 601-205 calibration adjustment key
9. Adjustable mounting bracket for meter
10. 601-218 tool adapter for 600-058
11. 601-219 tool adapter for 600-067
12. 601-220 tool adapter for 600-061, 600-068
13. 601-223 tool adapter for 601-109, 601-110, 601-100, 601-106
14. 601-225 tool adapter for 601-101, 601-107, 601-122, 601-123, 601-129, 601-130
15. 601-226 Tool adapter for 601-108 and 601-118

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 RS-232 serial communication port. Serial/USB adapter cable included.

# Band-Master® ATS

## Pneumatic Banding Tools

### Pneumatic Banding Tools



#### Pneumatic Banding Tool Replacement Blade and Knife

Pneumatic Tool	Knife and Blade Kit P/N
601-106 Standard Pneumatic	601-330
601-110 Slim Standard Pneumatic	601-331
601-107 Micro Pneumatic	601-329
601-123 Micro Slim Pneumatic	601-328
601-130 Micro-Max Pneumatic	601-329
601-118 Nano Pneumatic	601-332

See tool descriptions on following page



## Pneumatic Banding Tools

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

#### 601-106 Standard Pneumatic Banding Tool with Counter

**The 601-106 Standard Pneumatic Banding Tool** accommodates 601-005, 601-006, 601-040, 601-041, 601-049, 601-050, 601-052 and 601-054 standard quarter inch bands in a tension range of from 100-180 lbs. Calibrate at  $150 \pm 5$  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). Includes 601-400 foot pedal.

#### 601-123 Micro Slim Pneumatic Banding Tool with Counter

**The 601-123 Micro Slim Pneumatic Banding Tool** accommodates 601-600, 601-601, 601-602, 601-603 Micro Slim bands. Approximate tension range of 60-90 lbs. Calibrate at  $82 \pm 3$  lbs for most shield terminations. Tool Weight is 2.52 lbs (1.14 Kg); the control box weighs 3.51 lbs (1.59 Kg). Includes 601-400 foot pedal.

#### 601-110 Slim Standard Pneumatic Banding Tool with Counter

**The 601-110 Slim Standard Pneumatic Banding Tool** accommodates 601-024, 601-025, 600-057 and 600-059 quarter inch Slim Standard bands. Approximate tension range of 30-80 lbs. Calibrate at  $100 \pm 3$  lbs of linear pull. Weight of the tool is 2.52 lbs (1.14 Kg); the control box weighs 3.51 lbs (1.59 Kg). Includes 601-400 foot pedal.

#### 601-130 Micro-Max Pneumatic Banding Tool with Counter

**The 601-130 Micro-Max Pneumatic Banding Tool** accommodates 601-700, 601-701, 601-702, and 601-703 Micro-Max bands. Approximate tension range of 100-180 lbs. Calibrate at  $132 \pm 3$  lbs for most shield terminations. Tool Weight is 2.52 lbs (1.14 Kg); the control box weighs 3.51 lbs (1.59 Kg). Includes 601-400 foot pedal.

#### 601-107 Micro Pneumatic Banding Tool with Counter

**The 601-107 Micro Pneumatic Banding Tool** accommodates 601-024, 601-025, 601-060, 601-061, 601-064, 601-065, 600-057, and 600-059 eighth inch Micro Bands in a tension range of from 60 to 90 lbs. Calibrate at  $80 \pm 5$  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). Includes 601-400 foot pedal.

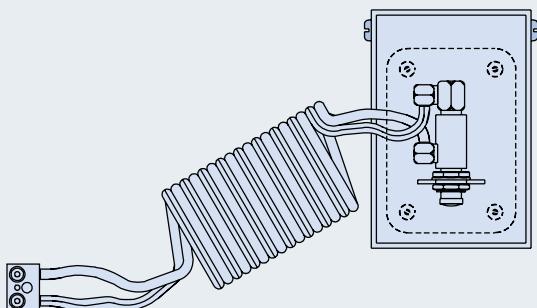
#### 601-118 Nano Pneumatic Banding Tool with Counter

**The 601-118 Nano Pneumatic Banding Tool** accommodates 601-570, 601-571, 601-572, and 601-573 Nano bands. Approximate tension range of 25-90 lbs. Calibrate at  $50 \pm 3$  lbs of linear pull. Weight of the tool is 2.52 lbs (1.14 Kg); the control box weighs 3.51 lbs (1.59 Kg). Includes 601-400 foot pedal.

# Band-Master® ATS

## Manual and Pneumatic Tool Accessories

### Accessories



#### 601-400 Foot Pedal Control for 601-106, 601-107, 601-110 and 601-118 Pneumatic Banding Tools

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



#### 601-401 Pneumatic Tool Balancer

**The 601-401 Tool Balancer** for use with pneumatic banding tools 601-104, 601-105, 601-106, 601-107. Load capacity, 1.5 (0.5 kg) to 3.0 Lbs (1.4 kg). Cable length, 6 ft (1.8 m). Reel weight, 1.3 Lbs (0.6 Kg). Pneumatic tool head weight, 2.52 Lbs (1.14 Kg)



#### 600-164 Utility Shears

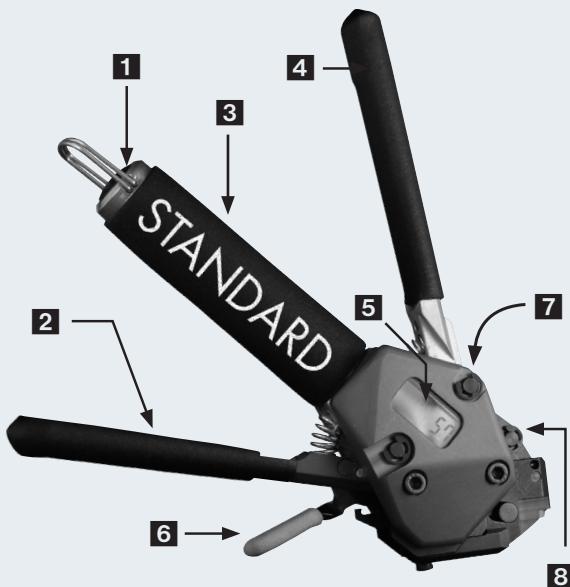
**The 600-164 Large Broad Utility Shear** for cutting amberstrand® and braided metal shielding also cuts rubber, cable jacketing, cable, plastics and rope. Weight: 0.55 Pounds, Shear Cut Length: 2.000.

#### Recommended AmberStrand® Cutting Procedure

Note: When cutting braid, both metal and especially composite, open cutter blades to allow the full 2" cut. Place braid all the way back onto blades as shown.

# 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 Cycle Counter

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

### 7 Serial Number

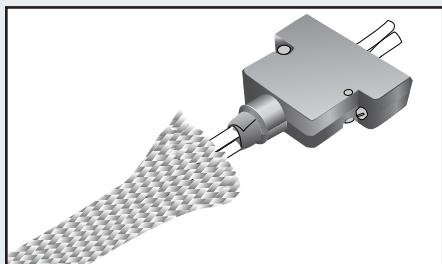
### 8 Tension Release Lever

### 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.

### Video Training Series At:

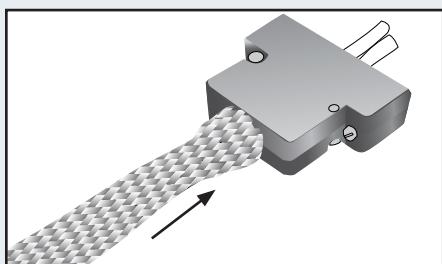
<http://www.glenair.com/bandmaster/index.htm>



### Step 1

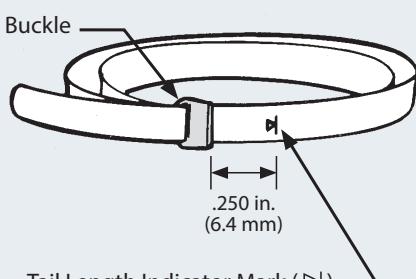
Prepare Cable Braid for termination process

**NOTE:** Complete banding on an unfixed 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.



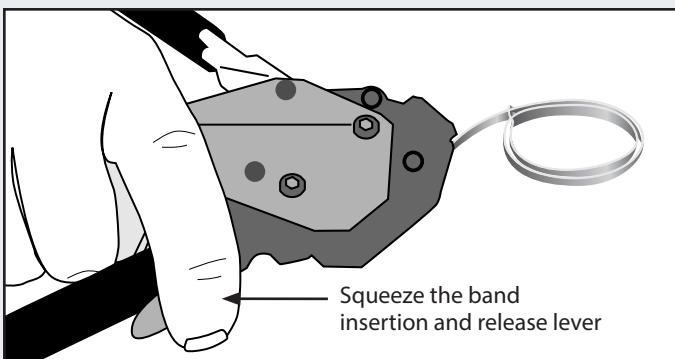
### Step 3

Double-wrap the band prior to use:

**NOTE:** Due to connector/adapter 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-wrapped.)

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.



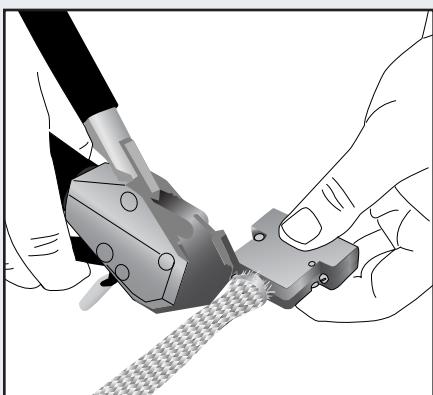
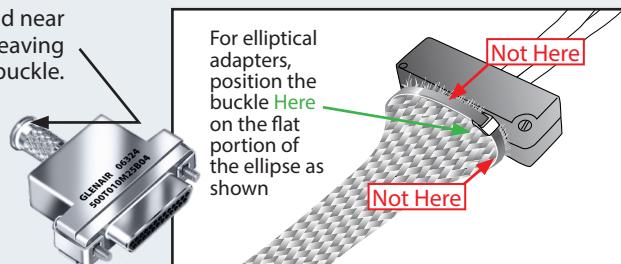
#### Step 4

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.

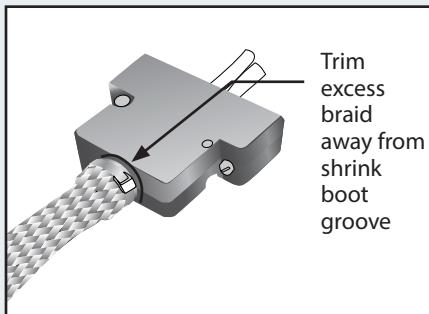
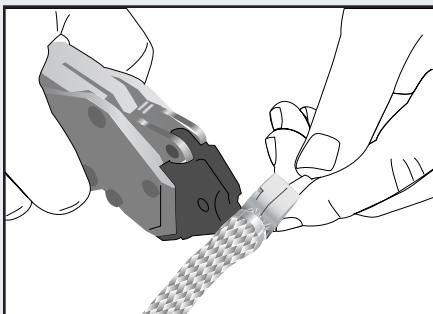
#### Step 7

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 unfixed connector/cable assembly.

#### Step 8

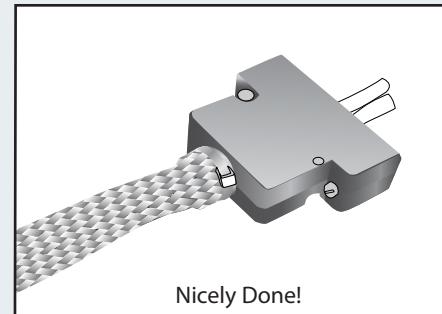
Trim away excess braid from the forward groove, particularly if a shrink boot is to be applied to the assembly.



#### Step 9

Visually inspect shield termination for problems.

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



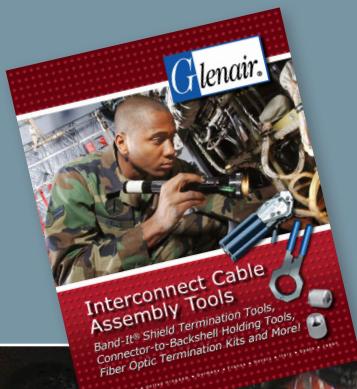
# Band-Master ATS®

## Band Overview and Performance Matrix

Criteria	Standard	Slim Standard	Micro	Micro Slim	Nano	Micro-Max
Material	304 SS	304 SS	304 SS	304 SS	304 SS	304 SS
Part Numbers (flat)	601-005 (9") 601-040 (14") 601-049 (18")	601-570 (9") 601-572 (14")	601-024 (5") 601-060 (8") 601-064 (14")	601-600 (8") 601-602 (14")	601-500 (6") 601-504 (9") 601-508 (14")	601-700 (8") 601-702 (14")
Part Numbers (precoiled)	601-006 (9") 601-041 (14") 601-050 (18")	601-571 (9") 601-573 (14")	601-025 (5") 601-061 (8") 601-065 (14")	601-601 (8") 601-603 (14")	601-501 (6") 601-505 (9") 601-509 (14")	601-701 (8") 601-703 (14")
Lengths (inch)	9", 14" and 18"	9" and 14"	5", 8" and 14"	8" and 14"	6", 9" and 14"	8" and 14"
Fits Diameters (inch)	.30" to 2.5"	.30" to 1.8"	.15" to 1.8"	.15" to 1.9"	.08" to 1.8"	.15" to 1.8"
Width (inch)	.24"	.24"	.12"	.12"	.075"	.12"
Thickness (inch)	.02"	.01"	.015"	.01"	.01"	.015"
Weight before installation (grams)	14" is 9.06 g	14" is 4.46 g	8" is 1.76 g	8" is 1.16 g	9" is .84 g	8" is 1.80 g
<b>Tooling Information</b>						
Hand Tool Part Number	601-100	601-109	601-101	601-122	601-108	601-129
Pneumatic Tool Part Number	601-106	601-110	601-107	601-123	601-118	601-130
Recommended Tool Setting	150 ±5 lbs.	100 ± 3 lbs.	80 ±5 lbs.	82 ± 3 lbs.	50 ±3 lbs.	132 ± 3 lbs
<b>Performance Data</b>						
Termination Resistance (mΩ)	0.082	0.083	0.087	0.085	0.155	0.080
Termination Construction	Ni/Al backshell Size 25, Tin Copper Braid	Ni/Al backshell Size 25, Tin Copper Braid	Ni/Al backshell Size 15, Tin Copper Braid	Ni/Al backshell Size 15, Tin Copper Braid	Ni/Al backshell Size 16, Tin Copper Braid	Ni/Al backshell Size 15, Tin Copper Braid
Avg. Single Junction Resistance (mΩ)	0.42	0.532	0.382	0.235	0.613	.170
Cable Pull Out (pounds)	160 lbs.	150 lbs.	80 lbs.	80 lbs.	50 lbs.	160 lbs
Clamping Tension (pounds)	100 to 180 lbs.	50 to 100 lbs.	50 to 85 lbs.	80 to 86 lbs.	20 to 50 lbs.	100 to 180 lbs.
Associated Test Report (Available Upon Request)	Test Report GT-14-75	Test Report GT-14-75	Test Report NTS 978-7382	Test Report GT-20-258	Test Report NTS PR021798	Test Report GT-22-188
Mil-Spec (85049)	Yes	No	Yes	No	No	No
Random Vibration	46 grms at +175°C 8 hrs each axis, EIA-364-28E cond. V, letter K					
Thermal Shock	-65°C to +200°C 5 cycles					
Temperature Life	1,000 hrs at +200°C					

HEAVY-DUTY

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The right tool for every interconnect assembly requirement



BandMaster™ ATS EMI/RFI  
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