

The widest range of  
mission-critical interconnect  
technologies in the world



**The Right Tool for Every Interconnect Assembly  
Application**

# The Right Tool for the Job

The best grasp of interconnect tool design and manufacturing comes from a full understanding of cable harness assembly

- Glenair manufactures the contacts, cables, connectors, accessories and enclosures
- We operate our own cable harness design and assembly service
- Drawing on this expertise, we've designed and built a full range of tools



# Overview: Glenair Tool Families



Assembly Wrenches and Pliers



Holding Tools and Torque Wrenches



Contact Termination Tools



Band-Master ATS®  
Shield Termination System



GroundControl™  
Earth Bonds



Fiber Optic Termination, Cleaning,  
and Test Tools and Kits

# Backshell Assembly Tools

## Circular backshell assembly wrench

- Provides a full 360° gripping surface on coupling nuts
- Minimizes coupling nut distortion
- Minimizes false tightening
- Available in 10 sizes, for standard or anti-decoupling backshells
- Replacement insert pads available



# Backshell Assembly Tools

## Composite backshell assembly wrenches

- Hex design for use with composite backshells
- Minimizes potential for distortion or breakage
- Available in aluminum or stainless steel



# Backshell Assembly Tools

## Strap Wrenches and Soft-Jaw Pliers

- For general use on any size metal backshell from .50 to 3.00 inches
- Replacement straps available
- Available TG80 Tool Kit includes 2 strap wrenches, soft-jaw pliers, parallel-jaw plier set, and instructions



# Torque Wrenches

## Hand-held torque wrench

- 600-076 High Torque model adjustable from 20 to 360 inch-pounds
- 600-004 Standard Torque model adjusts from 0 to 150 inch-pounds



# Torque Wrenches

## Bench-mounted torque wrench

- 600-076 High Torque model adjustable from 20 to 360 inch-pounds
- 600-004 Standard Torque model adjusts from 0 to 150 inch-pounds

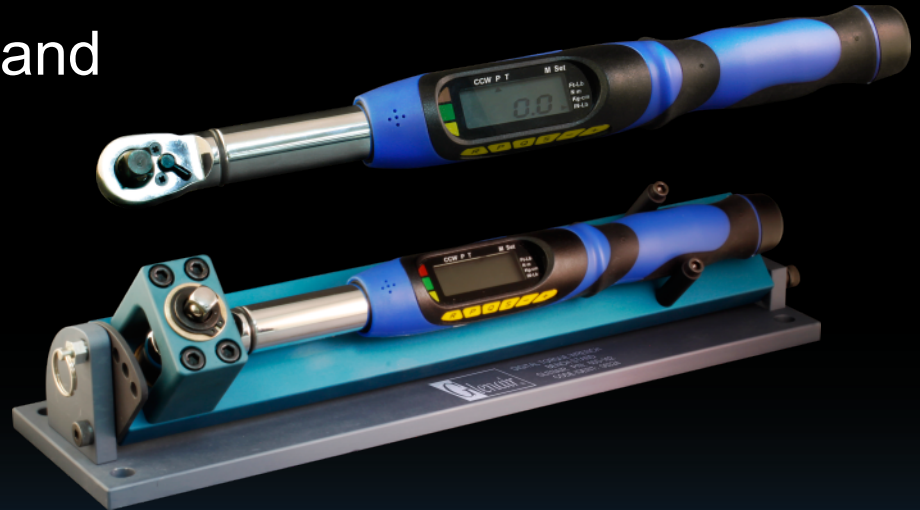




# Torque Wrenches

## Digital torque wrench

- 3/8" dual drives top and bottom
- 99 presets from 29 – 310 in./lb.
- Audible “beep” at 90%, 100%, and 110% set torque
- Stand available for adjustable bench-mount operation



# Torque Wrenches

## Holding tools and connector wrenches

- Plug and receptacle holders available for every standard Mil-Spec series as well as Series 80 Mighty Mouse
- Wrenches for every standard Mil-Spec series
- Torque Tool Hex Foot for composite coupling nuts



# Contact Termination Tools

## Miniature adjustable crimp tools and positioners

- Perform gas-tight, eight-indent crimps
- Standard M22520/2-01 crimpers for use with standard #23, #22D, #20HD contacts, and M39029/76 and /78 coaxial contacts
- Bayonet-type positioners hold contacts at correct height for crimping



# Contact Termination Tools

## Adjustable crimp tools and positioners

- Crimp tool and positioner for #20, #16, and #12 power pins
- Positioners for Mighty Mouse and Micro-Crimp wire adapters, and for #20, #16, and #12 power contacts



# Contact Termination Tools

## Coaxial contact crimp tools and positioners

- Crimp tool and positioner for #16 and #12 coaxial outer contacts
- Mil-spec approved tools with ratchet mechanism to prevent damage from overcrimping



# Contact Termination Tools

## Parallel action crimp tool

- Parallel action crimp tool and hex die set for 50 Ohm matched - impedance #12 coax contacts



# Contact Termination Tools

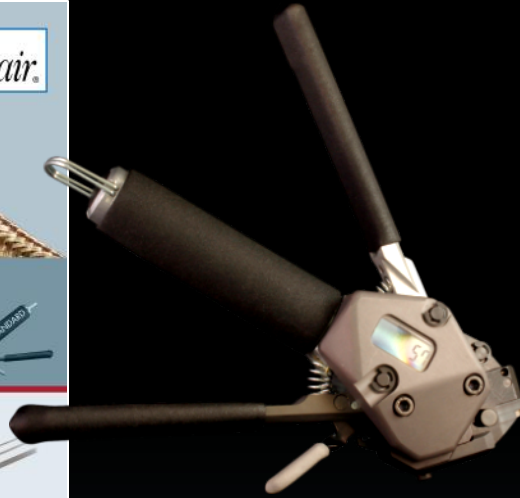
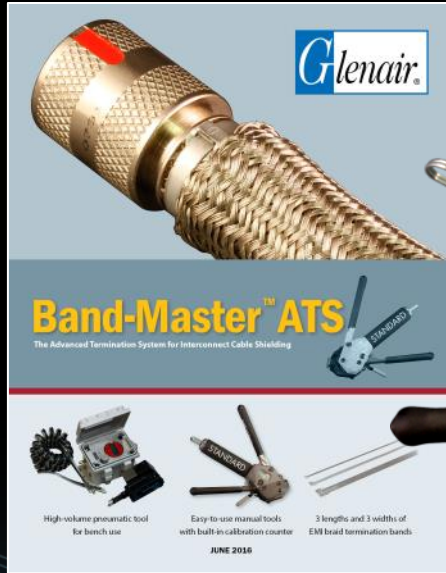
## Insertion and extraction tools

- For #23, #20HD, #16, #12, #20 contacts



# Band-Master ATS<sup>®</sup>

Reliable EMI Shield Termination with Built-In Calibration Counter





# Band-Master ATS® Advanced Termination System



## Hand tools

- Quick, easy and repeatable process
- Applies high constant force to braid
- Meets the toughest aerospace standards
- World's most popular termination system

# Band-Master ATS<sup>®</sup>

# Band-Master ATS<sup>®</sup>

## Advanced Termination System



### Pneumatic tools

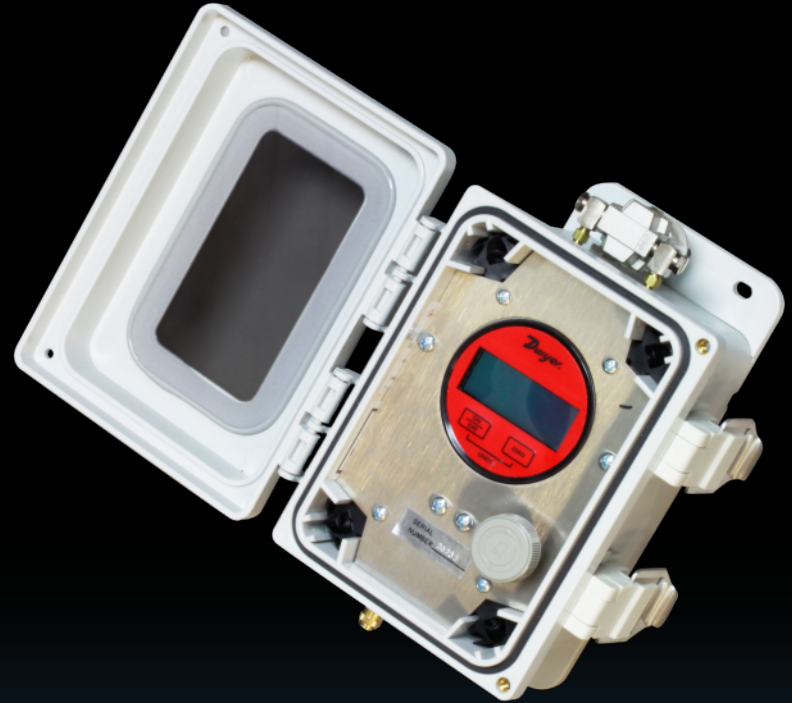
- High-volume bench-mount units for more accurate, reliable, and faster terminations
- Easy one-touch operation
- Available for Standard, Micro, Nano and Slim band termination systems
- Foot pedal control available

# Band-Master ATS<sup>®</sup>

## Advanced Termination System

Pneumatic tool features:

- Digital pressure gage
- Precision regulator with a locking nut to secure adjustments after calibration
- Locking, clear cover lens allows pressure to be read during use



# Band-Master ATS<sup>®</sup>

## Advanced Termination System

Pneumatic hand unit features:

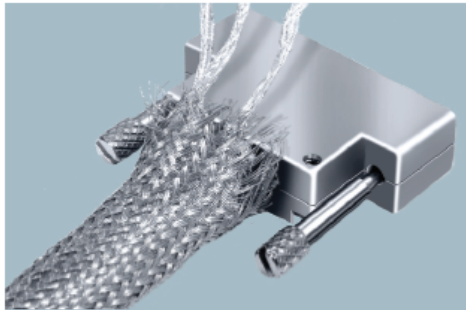
- Reset switch for removal of incomplete banding
- Auto cut-off defeat switch



# Quick, Easy and Repeatable Process

**Band-Master ATS<sup>®</sup>**

- Void of operator bias
- Calibrated system
- Repeatable – applies 160 lbs. to standard band, 100 lbs. to Micro Band



***Step One: Cable Prep***



***Step Two: Install Band***

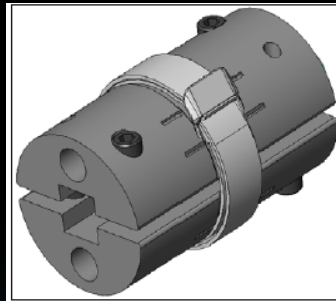


***Step Three: Trim Braid***

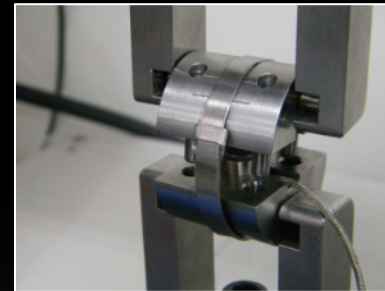
# Band Applies a High Constant Force on Braid

**Band-Master ATS<sup>®</sup>**

	Retained Force (lbs.)	Max Clamping Force (lbs.)	Loop Tensile Force (lbs.)
Standard 600-052 Band with 600-058 Tool; 1.5" Split-Mandrel			
Average:	160	190	979
600-057 Micro-Band with 600-061 Tool; 1.875" Split-Mandrel			
Average:	97	124	259



Retained Force Split Mandrel  
with Load Cell



Loop Tensile Force  
Use of Instron

## Band Part Numbers

- 3 lengths and 3 widths
- Slim standard bands for size and weight savings – 50% lighter and lower profile



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
Short Slim Standard Band	9.0	228.6	<a href="#">601-570</a>	<a href="#">601-571</a>	1.0	25.4
Medium Slim Standard Band	14.25	362.0	<a href="#">601-572</a>	<a href="#">601-573</a>	1.8	47.8

# Meets the Toughest Aerospace Standards

## Tested to the following requirements:

- Relative Permeability ~ EIA 364-54
- Salt Spray – 1000 Hours ~ EIA 364-26
- Vibration – High and Extended ~ EIA 364-28
- Shock – Heavy Duty ~ EIA 364-27
- Fluid Immersion ~ EIA 364-10
- Fungus Resistance ~ CERT ASTM G21
- Temp Cycling ~ EIA 364-32
- Braid Retention ~ AS85049/128 Sec. 6.a
- Thermal Aging ~ AS85049/128 Sec. 6.b





# GroundControl Earth Bond system

## Easy one-hand operation

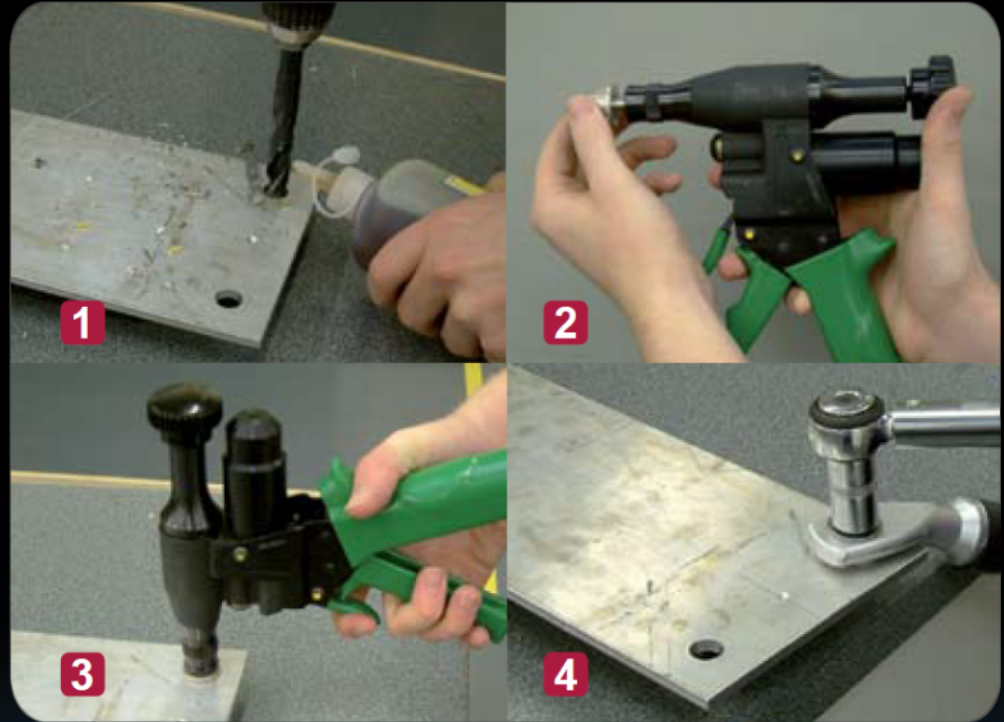
- Setting tools for aluminum and stainless steel plate
- Bi-laminar (copper core) earth bonds
- One-hand operation and ram retract mechanism actuated by release trigger



# GroundControl Earth Bond system

## Four-step procedure

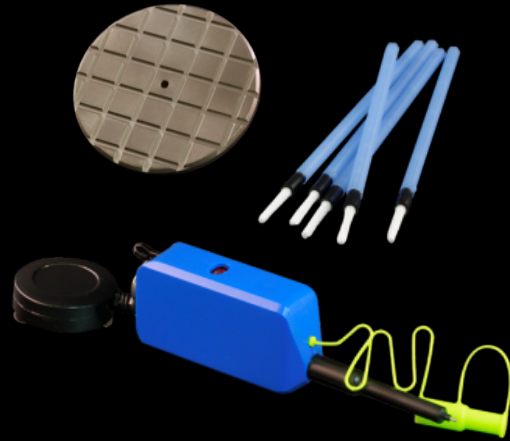
1. Drill a hole, diameter dependent on thickness and size of bonding sleeve
2. Screw the bond into the nose of the tool
3. Repeatedly press the lever until you hear a clicking sound. Remove the tool
4. Attach the cable to the bond and tighten the nut



# Fiber Optic Termination, Cleaning, and Test Tools and Kits



Test cables, probes  
and adapters



Dry action cleaning tools,  
polishing pucks, and  
cleaning swabs



Complete  
Termination,  
Cleaning and  
Inspection Toolkits

The widest range of  
mission-critical interconnect  
technologies in the world



**The Right Tool for Every Interconnect Assembly  
Application**