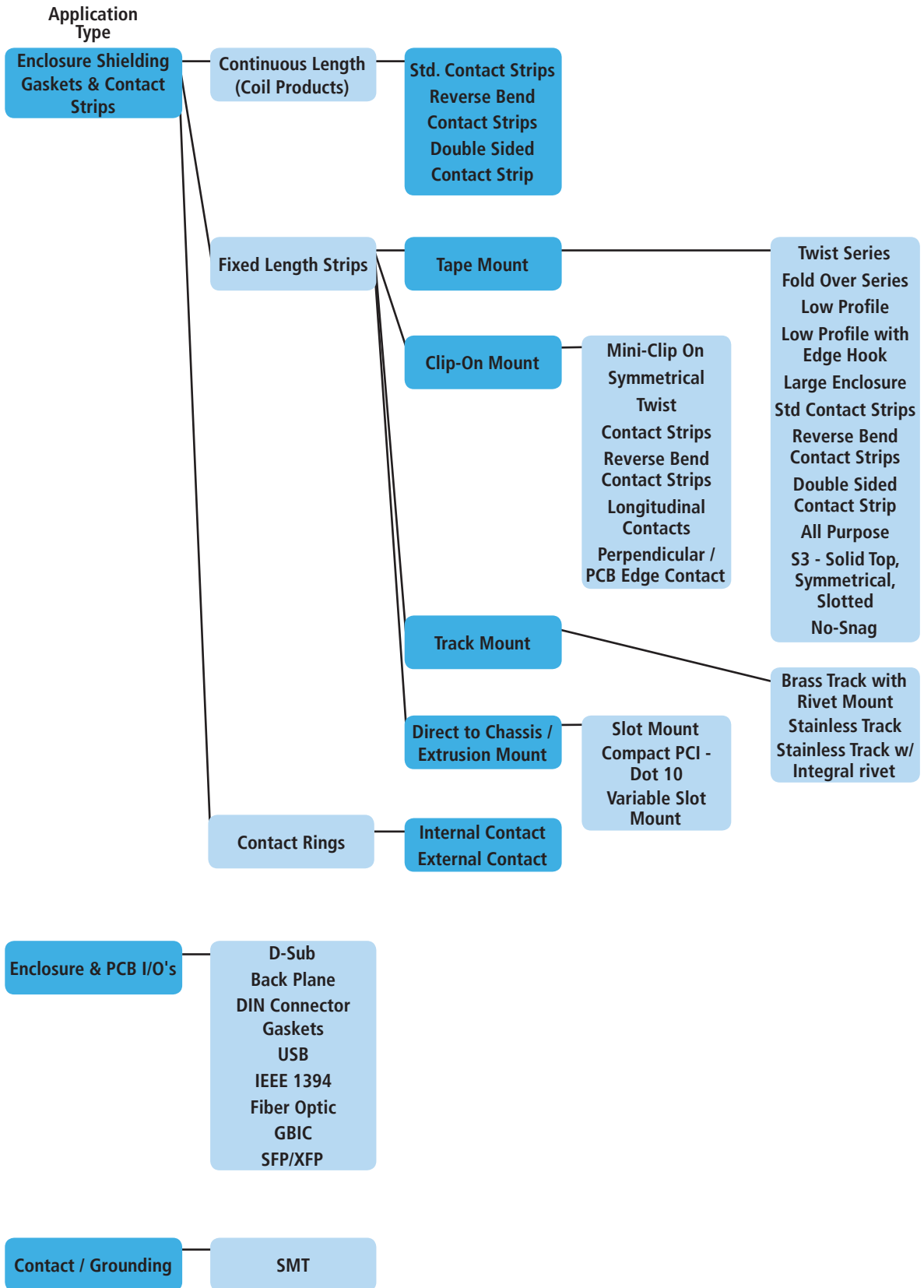


# FINGERSTOCK

## PRODUCT SELECTION GUIDE



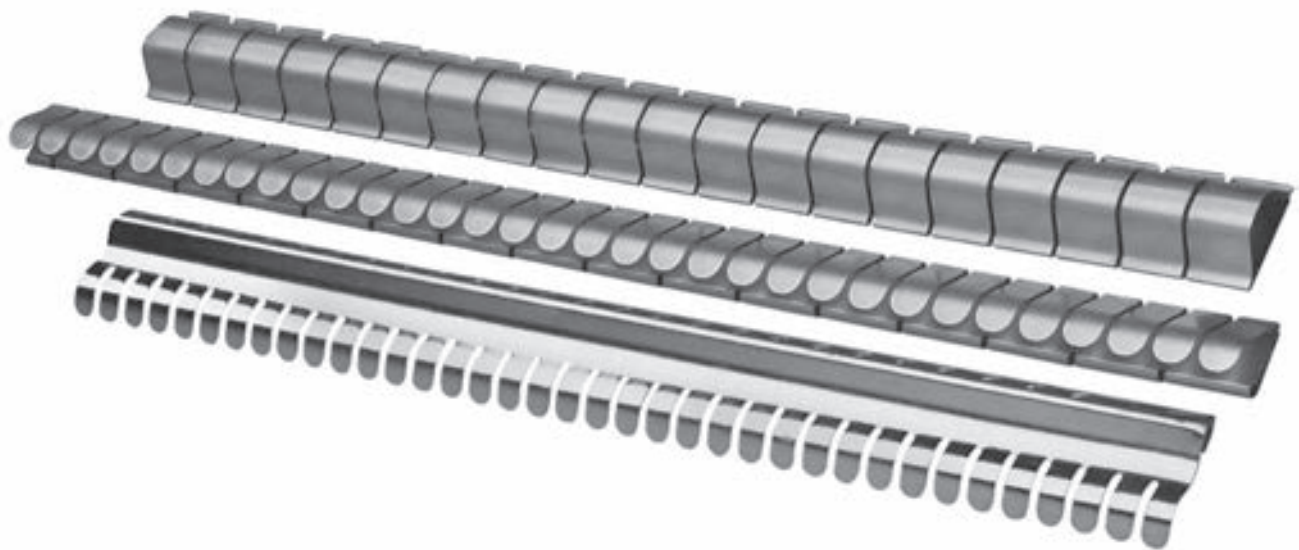
# FINGERSTOCK

Engineered metal Fingerstock solutions from Laird dates from 1938. Laird specializes in designing miniature parts of thin strip metal in quantities ranging from thousands of pieces to millions of pieces. With over 3,400 standard parts, Laird probably already has an off-the-shelf solution that meets your application's requirements.

When custom designs are needed, Laird engineering staff helps construct efficiencies in performance, cost and manufacturability from the very beginning stages of the application.

Laird specialized capabilities:

- Assembly • Heat staking (both hand and automatic)
- Heat treating • In-house die and fixture manufacturing
- Multislid equipment • Photoetching
- Plating • Progressive die stamping
- Prototype fabrication • Resistance welding
- Riveting • Secondary fabrication
- Wire EDM

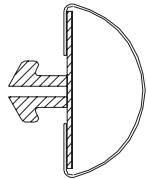


# FINGERSTOCK MOUNTING METHODS

## UNIVERSAL MOUNTING

A stainless steel mounting track is available for use with our full line of gasketing materials. Its unique design offers a secure mounting option versatile enough for use with fingerstock, ElectroNit<sup>®</sup> mesh, ElectroSeal elastomers, UltraSoft<sup>®</sup> Knit and fabric-over-foam products.

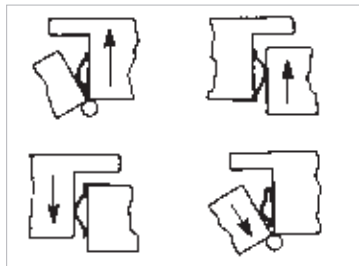
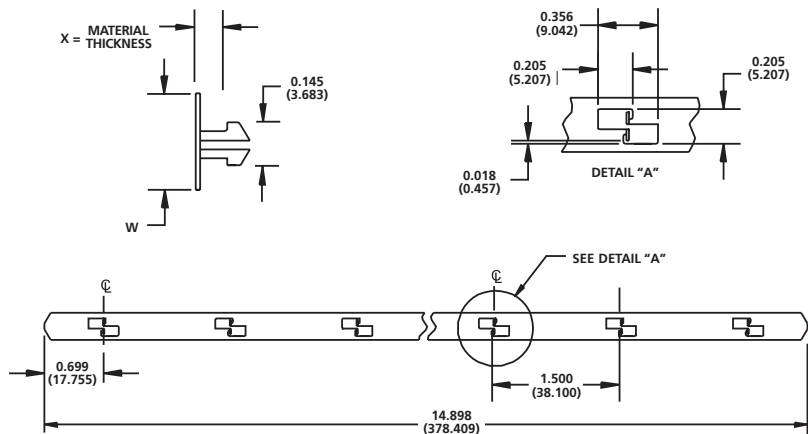
PART NUMBER	WIDTH
0095-X996-00	0.310 (7.874)
0095-X997-00	0.430 (10.922)
0095-X998-00	0.600 (15.240)



Universal Mount

MATERIAL THICKNESS
A = 0.030 (0.762)
B = 0.045 (1.143)
C = 0.060 (1.524)
D = 0.090 (2.286)
E = 0.150 (3.810)

To identify proper mounting track, select width and corresponding part number from the above chart. Replace the "X" with required material thickness.



^ Shielding gaskets may be mounted for either wiping or compression closing applications. Proper positioning of the shielding gasket must take into consideration the closing design and the configuration of the mounting surface.



Rivet Mount

Slot Mount



Sticky Fingers<sup>®</sup>

Clip-On Mounting

Tape Track Mounting

Laird shielding devices may be mounted quickly and easily using any of several different methods. Each installation method is described in the text that follows. However, if you should run into a unique situation not resolved by any of these methods, give us a call. More than likely we can provide the exact answer you need.

### RIVET MOUNT

Riveting produces a tight, long-lasting installation. Either plastic or metal rivets may be used.

### SLOT MOUNT

Slot mounted parts are easily installed using slots where bi-directional movement is required. Simply install part into one slot and snap it into the second slot or over the edge of the frame.

### ADHESIVE MOUNTING

Sticky Fingers<sup>®</sup> is an instant, pressure-sensitive adhesive bonding system, ideal for all-purpose contact strips for metal cabinets and electronic enclosures, and is unaffected by temperatures from -67 to +250°F (-55 to +121°C).

Simply follow these four easy steps:

1. Remove all grease and oily residue with solvent. Smooth the mounting surface with emery cloth.
2. Peel off protective paper backing.
3. Place gasket in correct position. (See mounting methods diagrams A through E.) Press firmly to ensure a good adhesive bond. Avoid repositioning, which might impair the effectiveness of the adhesive or may bend or kink the strip.

NOTE: On items where fingers cover the solid portion of the gasket, pressure may be applied by inserting a mandrel in the strip and pressing down. For contact strips with Magnefil<sup>®</sup> insert, simply press down on the fingers.

4. Allow 24 hours minimum curing time.

Standard parts are supplied with nonconductive tape. For rough surface applications, such as flame-sprayed surfaces, 0.010 in. (0.254 mm) thick nonconductive tape is recommended. Optional conductive tape is also available. Contact a sales department representative for additional ordering information.

### CLIP-ON MOUNTING

Clip-on gaskets hold firmly in place due to their own spring characteristics. Simply push the strips onto the edge or flange of the door or enclosure. Also available are clip-on gaskets with either "T" or "D" lances.

### TAPE TRACK MOUNTING

Stainless Steel mounting track with PSA (pressure sensitive adhesive) is available on the Symmetrical Slotted Series and Slot Mount Series.

### WELDING

Welded mounting requires simple, traditional welding techniques.

### SOLDERING

Solder mounting requires normal low temperature soldering techniques, including cleaning and fluxing of parts with common copper flux materials.

# FINGERSTOCK

## ORDERING INFORMATION

### Part Number Format

Example:  
 Stock Item — Unique Part No. — Finish I.D.  
 0097 — 0520 — 02

- In the above example, Laird part number 0097-0520-02 is a 97-520 RFI/EMI shielding gasket with a bright finish
- When ordering UltraSoft® items, the stock item prefix will be 0098 or 0078. The above example in UltraSoft would be 0098-0520-02.
- When ordering coil, the prefix 0C should precede the stock item number; for example: 0C97, 0C98, 0C77 or 0C78
- When ordering stainless steel items, the stock item prefix will be 0095
- Standard plating finish is 0.0001 in. (0.0025 mm) min. [gold 0.00005 in. (0.0013 mm) min.] but can be varied to meet your custom needs
- Modifications to standard parts are specified by an X (following finish I.D.) for quoting only. Upon ordering, a specific part number will be assigned.
- For tape options, see Adhesive Mounting — Sticky Fingers® on page 16
- Use the catalog number for the unique part number and refer to the following chart for finish I.D.

### Plating Finishes

Finish Designation	Finishes for Fingerstock Products (BeCu and RCC)	Laird ID	Specifications	Specification Details*
Unplated	Bright Finish	02	Laird Designation	Unplated, Bright or Ultrasoft surface
	Solderable Unplated	21	Laird Designation	Solderable bright finish
Gold	Gold	03	ASTM B 488 / SAE AMS 2422	Type I & II, grade C, 1.27 - 2.5 µm thick
	Gold/Nickel Underplate	10	ASTM B 488 / SAE AMS 2403	Type I & II, grade C, 1.27 - 2.5 µm thick
Silver	Silver (matte)	04	ASTM B 700 / QQ-S-305	Type II, grade A, 2.5 - 7.6 µm thick
Cadmium**	Cadmium + Yellow Chromate	05	ASTM B 766 / AMS QQ P 416	Type II, class 5, min 5 µm thick
	Cadmium + Clear Chromate	06	ASTM B 766 / AMS QQ P 416	Type III, class 5, min 5 µm thick
Tin Lead**	Tin Lead [60/40] Solder	07	ASTM B 579 / SAE AMS P 81728	7.6 - 12.7 µm thick
Nickel	Dull Nickel	09	ASTM B 689 / SAE AMS 2403 (QQ-N-290)	2.5 - 7.6 µm thick*
	Bright Nickel	19	ASTM B 689 / SAE AMS 2403 (QQ-N-290)	2.5 - 7.6 µm thick*
	Sulfamate Nickel	24	ASTM B 689 / SAE AMS 2424	2.5 - 7.6 µm thick (1.27 - 2.5 µm underplate)
Electroless Nickel	Electroless Nickel	18	ASTM B 733 / SAE AMS C 26074	2.5 - 7.6 µm thick
Tin	Satin / Matte Tin	08	ASTM B 545 / MIL-T-10727C	Type I, 2.5 - 7.6 µm thick
	Bright Tin	17	ASTM B 545 / MIL-T-10727C	Type I, 2.5 - 7.6 µm thick
Zinc***	Zinc + Yellow Chromate	16	SAE AMS 2402 / ASTM B 633	Type II, 2.5 - 7.6 µm thick
	Zinc + Clear Chromate	15	SAE AMS 2402 / ASTM B 633	Type III, 2.5 - 7.6 µm thick

#### Notes:

- Laird standard plating codes are defined according to the above specifications. Any non-standard requirements (different classes or types within a specification) must be clearly identified on the production prints.
- The plating thickness indicates the thickness measured on the primary out-surface of fingerstock products.

\* Class 1, Grade G in QQ-N-290

\*\* Outsourced process

\*\*\* Laird provides RoHS compliant Trivalent Chromate

# FINGERSTOCK

## ULTRASOFT® SERIES

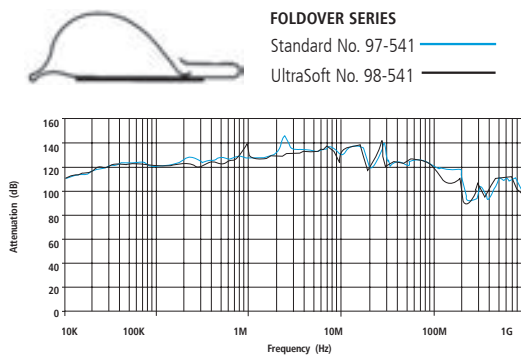
Series UltraSoft® fingers have been designed for communications, computers and electronic systems designers concerned with EMI compliance and lightweight enclosure designs. Available in the same full range of standard configurations, UltraSoft fingers offer designers greater flexibility and versatility than ever before—permitting more extensive use of lighter, thinner construction materials to help cut costs and/or enhance system performance.

The unique advantages of UltraSoft (98-Series) fingers include:

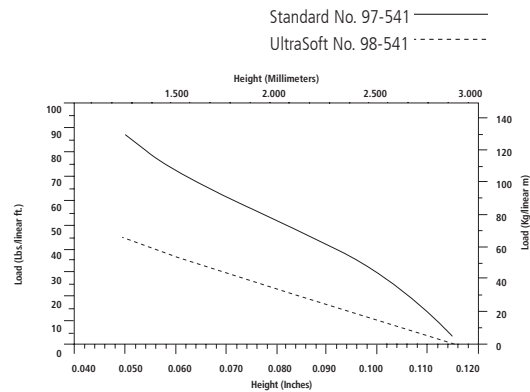
- The lowest compression forces in the industry
- Shielding effectiveness comparable to similarly configured standard 97-Series parts
- Wide selection of sizes and configurations
- Low compression force version available for virtually every standard shielding product

UltraSoft (98-Series) products are available in the same lengths as the standard (97-Series) products. Please refer to the appropriate standard product pages for specific information. All UltraSoft products are also available in your choice of finishes.

### Shielding Effectiveness Comparison



### Compression Force Comparison



## RECYCLABLE CLEAN COPPER™

Recyclable Clean Copper products meld strong stability and tensile strength with high levels of thermal and electrical conductivity making it suitable for utilization in both grounding and shielding applications at a cost that is comparable with traditional metal EMI shields. Shielding effectiveness is similar to other copper alloys with values over 100 dB shielding effectiveness readily achieved.

Recyclable Clean Copper is fully compliant to EU Directive 2002/95/EC and alleviates the environmental, safety and segregation concerns associated with the traditional use and recycling of beryllium-based copper alloys.

This alternative material exhibits excellent corrosion resistance, platability, solderability and stress relaxation properties.

The product is targeted at high volume designs. Custom stampings are available upon customer request. As with all of Laird metal fingerstock gaskets, Recyclable Clean Copper is completely flameproof.

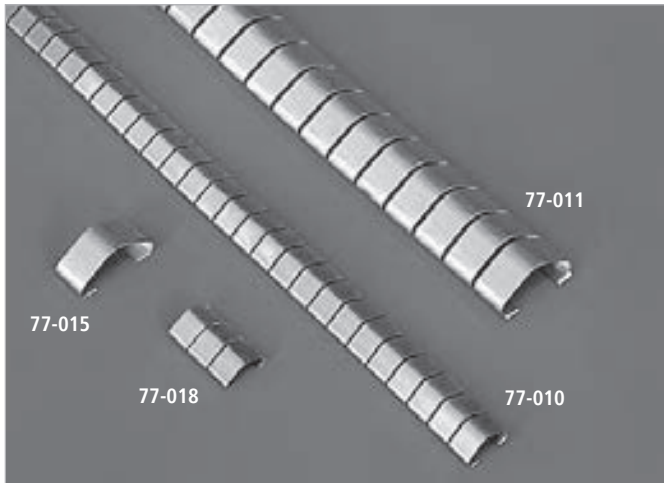
For mounting methods and other specific product information, please see Laird catalog "Fingerstock, Gaskets and Metal Grounding Products".

To find out more about this exciting new product available from Laird please contact sales for assistance or visit us at [www.lairdtech.com](http://www.lairdtech.com).

Recyclable Clean Copper (RCC) beryllium-free EMI shielding offers customers an excellent alternative to beryllium containing alloys (BeCu) in a wide range of slotted applications. The conversion of part number (Stock Item) of BeCu to RCC:

BeCu	RCC
0077-	0067-
0c77-	0c67-
0097-	0087-
0c97-	0c87-
0078-	0068-
0c78-	0c68-
0098-	0088-
0c98-	0c88-

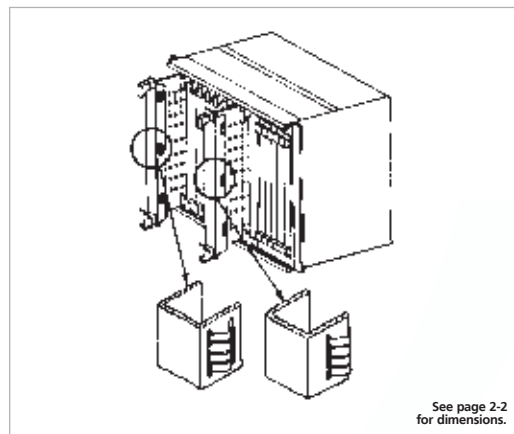
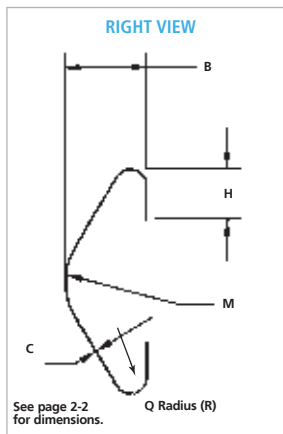
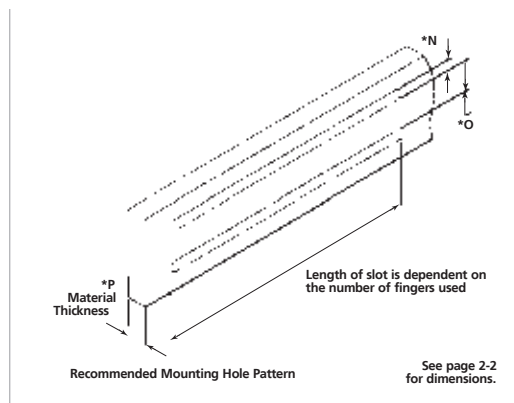
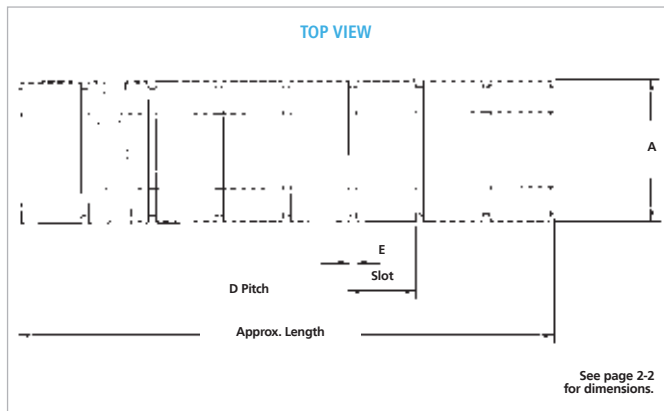
# FINGERSTOCK SLOT MOUNT SERIES



Laird Slot Mount Series of beryllium copper shielding gaskets is designed for use in a wide variety of slotted applications. This economical product line is ideal for both grounding and shielding applications.

- Minimal slot fabrication cost
- Easy and cost-effective installation since fasteners and adhesives are not required
- Bi-directional wiping and compression action to accommodate a wide variety of designs
- Ideal for grounding and shielding in the following electronic enclosure applications:
  - Front panel handles
  - Chassis covers
  - Plug-in units
  - Backplanes
  - Subrack assemblies
- Standard (77-Series) and UltraSoft® (78-Series low compression versions) are also supplied in 25.0 ft. (7.6 m) coils

The Slot Mount Series is available in your choice of finishes, see page 17.



Slot Mount Series are available with Universal and Tape Track mounting options, see page 1-9, 1-10.



# FINGERSTOCK DUAL SLOT SERIES

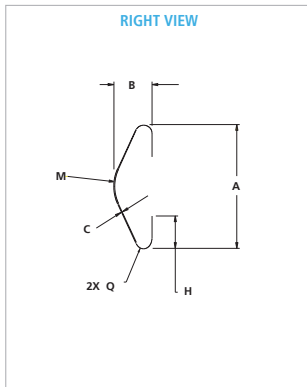
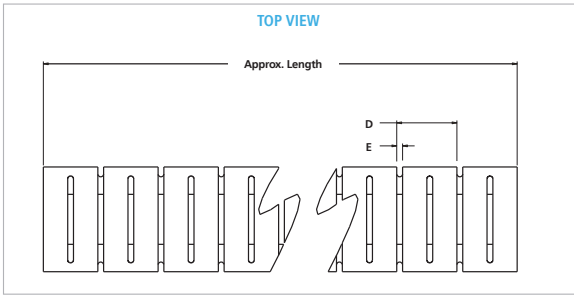


Part No. 77-075, 77-093, 77-110

Dual slot mount parts are available for a variety of slotted applications. The dual slot feature optimizes the compression force and provides a good operating range. This product is ideal for both shielding and grounding applications. The bi-directional wiping and compression action accommodates a wide variety of designs. Ideal for use in the grounding and shielding of front panel handles, sub rack assemblies, plug-in units, back planes and other electronic enclosure applications.

### DUAL SLOT SERIES DIMENSIONS

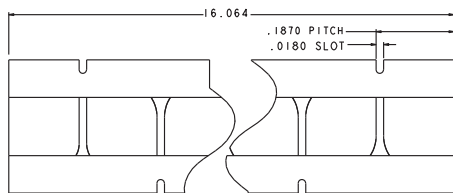
SERIES	A	B	C	D	E	H	M	N	O	P	Q	LENGTH # OF		
												APPROX.	FING.	
77-075	0.325 (8.255)	0.100 (2.54)	0.003 (0.076)	0.187 (4.750)	0.018 (0.457)	0.085 (2.159)	0.110 (2.794)	0.090 (2.286)	0.260 (6.604)	0.040 (1.016)	0.020 (0.508)	16.000 (406.400)	86	—
77-093	0.325 (8.255)	0.140 (3.556)	0.003 (0.076)	0.187 (4.750)	0.018 (0.457)	0.085 (2.159)	0.110 (2.794)	0.090 (2.286)	0.260 (6.604)	0.040 (1.016)	0.020 (0.508)	16.000 (406.400)	86	—
77-110	0.325 (8.255)	0.125 (3.175)	0.003 (0.076)	0.187 (4.750)	0.018 (0.457)	0.085 (2.159)	0.110 (2.794)	0.090 (2.286)	0.260 (6.604)	0.040 (1.016)	0.020 (0.508)	16.000 (406.400)	86	—



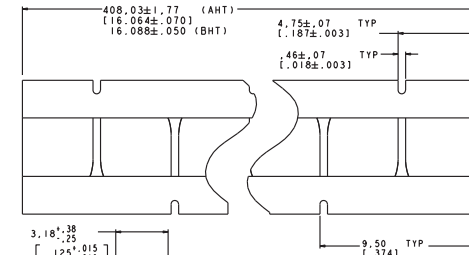
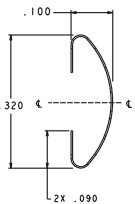
All dimensions shown are in inches (millimeters) unless otherwise specified.

# TEARDROP SERIES

Teardrop slot fingerstock gaskets include a shaped cut developed to optimally distribute the mechanical stresses when the part is compressed, and to avoid excessive insertion forces on a stack of rack mounted modules. Please contact a Laird technical resource to review current applications that might benefit from incorporating this feature into existing gaskets where minimal insertion force is desired. Patent # 7,112,740



0097-0987



0097-0988



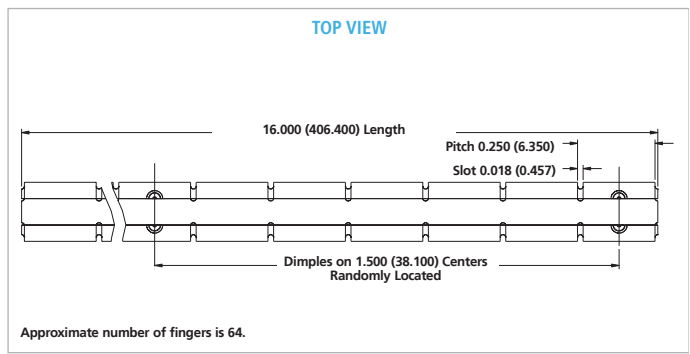
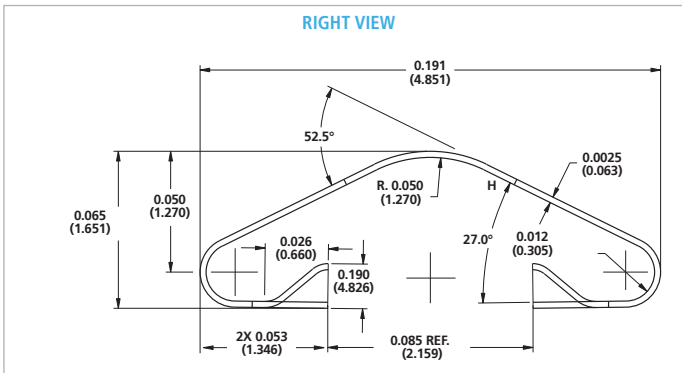
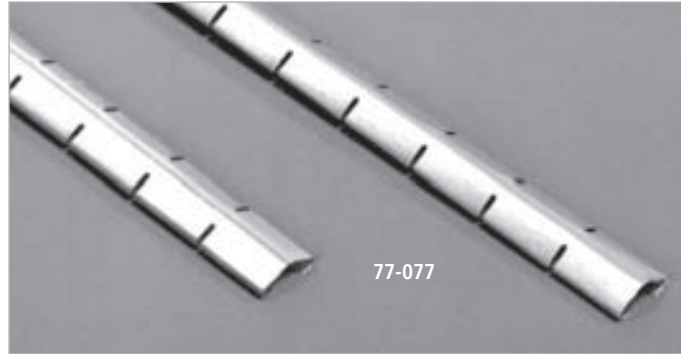
# FINGERSTOCK

## COMPACT PCI SYMMETRICAL MOUNT

Laird offers a unique product designed to shield the front panels of IEEE standard 1101.10 card cages, commonly referred to as Dot-10, called the Compact PCI gasket.

This front panel shielding has been designed to shield between the front panels on sub racks and plug-in units. This is a beryllium copper solid top symmetrical slotted fingerstock strip pre-plated in sulfamate nickel. It is designed to mount on the "T" shape on a front panel extrusion (see below). Specially designed for wiping applications, this configuration allows total symmetrical compression action with bi-directional engagement.

Standard size shown is based on the 9.5" (241.300) length per the Dot-10 standard. Other lengths and plating finishes are available for your specific application.

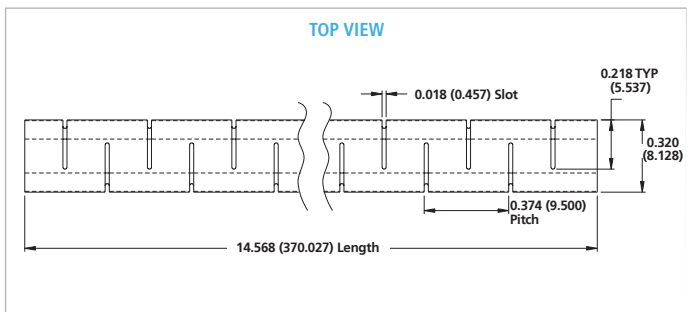
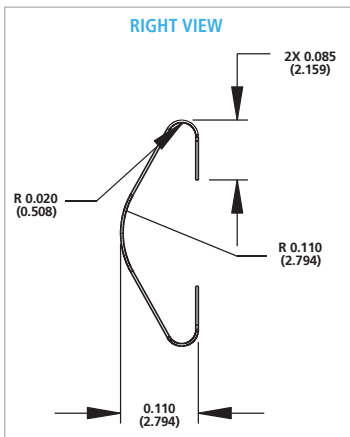


## ALTERNATE SLOT SERIES

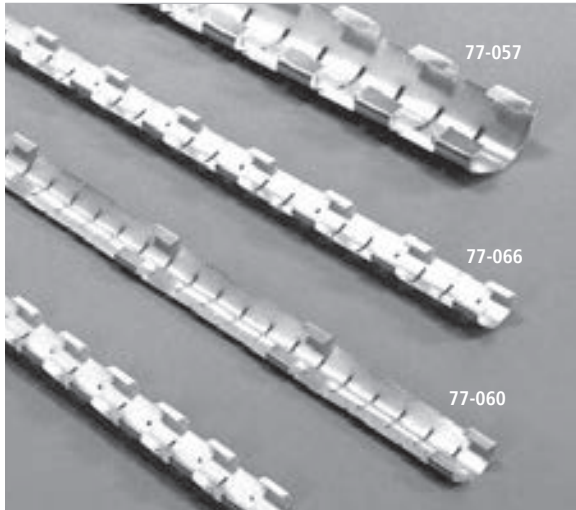
Laird alternating slot/cut design is designed for use in a wide variety of slotted applications, such as front panel handles, plug-in units, subrack assemblies, chassis covers and backplanes.

Available in a wide variety of plating finishes to meet galvanic compatibility requirements.

Available in UltraSoft™, low compression series (-078).



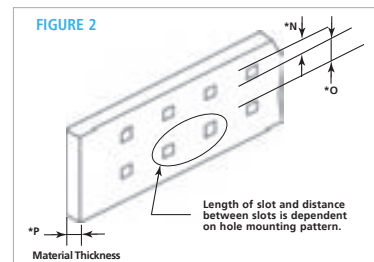
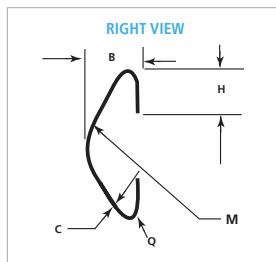
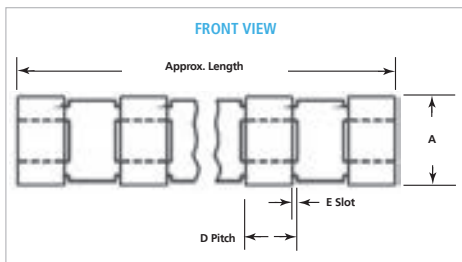
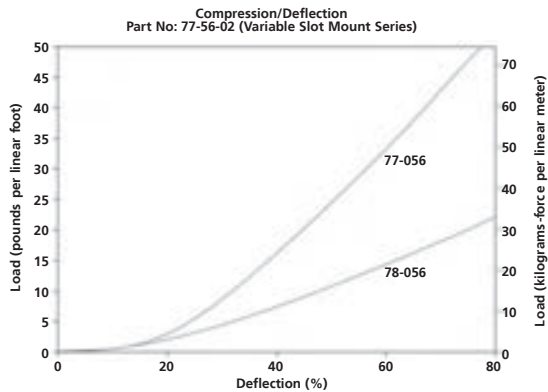
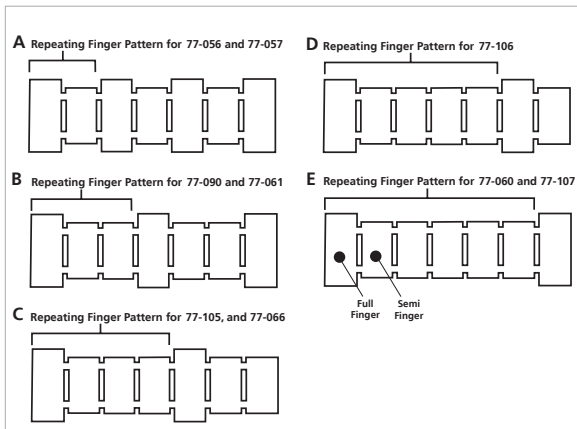
# FINGERSTOCK VARIABLE SLOT MOUNT



Laird introduces Variable Slot Mount shielding, which eliminates the use of long slots while still utilizing the easy installation method of slot mount shielding. Fingers are removed from the strip in areas where a mounting slot is not present. The Variable Slot Mount shielding strips can be customized to any patterned series of slots.

- Easy and cost-effective installation since fasteners and adhesives are not required
- Improved shielding effectiveness compared to traditional slot mount series through elimination of long slots in host material
- Slot mounting feature can be varied to accommodate different lengths and hole mounting patterns (see figure 2)
- Three and five pitch segments ideal for grounding applications
- Bi-directional wiping and compression action to accommodate a wide variety of designs
- Available in standard (77-Series) and UltraSoft® (78-Series low compression versions)
- Ability to retrofit equipment when higher clock speeds limit current slot mount product without changing slot size or location
- One piece construction eliminates handling individual pieces, thereby shortening installation time
- Ideal for grounding and shielding in the following electronic enclosure applications:
  - Front panel handles
  - Chassis covers
  - Backplanes
  - Plug-in units
  - Subrack assemblies

FIGURE 1: REPEATING FINGER PATTERN



VARIABLE SLOT MOUNT DIMENSIONS

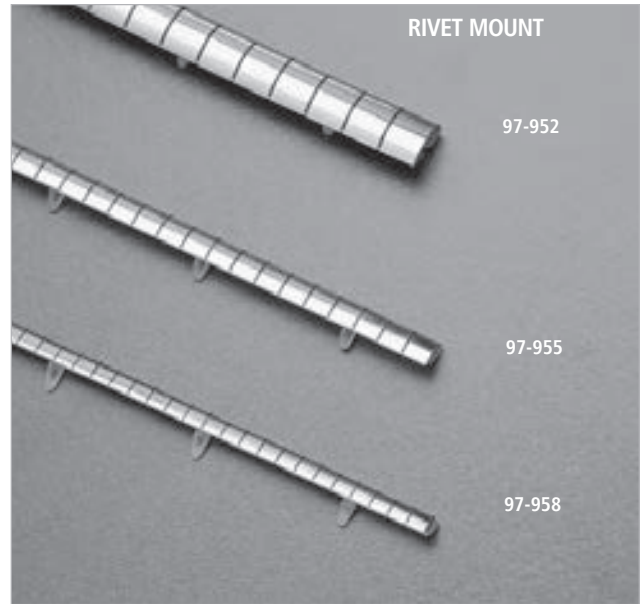
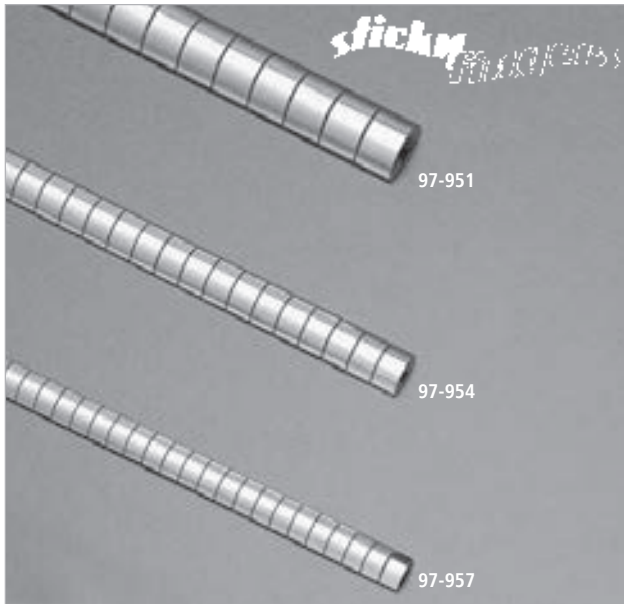
SERIES VIEW**	A	B	C	D	E	H	M	*N	*O	*P	Q (R)	LENGTH APPROX.	# OF FING.
77-056	0.320	0.110	0.004	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	16,000	86
A	(8.128)	(2.794)	(0.102)	(4.750)	(0.457)	(2.159)	(2.794)	(2.286)	(6.604)	(1.016)	(0.508)	(406.400)	—
77-057	0.600	0.220	0.005	0.282	0.032	0.130	0.180	0.140	0.520	0.070	0.040	16,000	57
A	(15.240)	(5.588)	(0.127)	(7.163)	(0.813)	(3.302)	(4.572)	(3.556)	(13.208)	(1.778)	(1.016)	(406.400)	—
77-060	0.320	0.110	0.003	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	16,000	86
E	(8.128)	(2.794)	(0.076)	(4.750)	(0.457)	(2.159)	(2.794)	(2.286)	(6.604)	(1.016)	(0.508)	(406.400)	—
77-061	0.320	0.110	0.003	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	16,000	86
B	(8.128)	(2.794)	(0.076)	(4.750)	(0.457)	(2.159)	(2.794)	(2.286)	(6.604)	(1.016)	(0.508)	(406.400)	—
77-066	0.320	0.110	0.003	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	16,000	86
C	(8.128)	(2.794)	(0.076)	(4.750)	(0.457)	(2.159)	(2.794)	(2.286)	(6.604)	(1.016)	(0.508)	(406.400)	—

SERIES VIEW**	A	B	C	D	E	H	M	*N	*O	*P	Q (R)	LENGTH APPROX.	# OF FING.
77-090	0.600	0.220	0.005	0.282	0.032	0.140	0.180	0.140	0.520	0.070	0.040	16,000	57
B	(15.240)	(5.588)	(0.127)	(7.163)	(0.813)	(3.556)	(4.572)	(3.556)	(13.208)	(1.778)	(1.016)	(406.400)	—
77-105	0.600	0.220	0.005	0.282	0.032	0.140	0.180	0.140	0.520	0.070	0.040	16,000	57
C	(15.240)	(5.588)	(0.127)	(7.163)	(0.813)	(3.556)	(4.572)	(3.556)	(13.208)	(1.778)	(1.016)	(406.400)	—
77-106	0.600	0.220	0.005	0.282	0.032	0.140	0.180	0.140	0.520	0.070	0.040	16,000	57
D	(15.240)	(5.588)	(0.127)	(7.163)	(0.813)	(3.556)	(4.572)	(3.556)	(13.208)	(1.778)	(1.016)	(406.400)	—
77-107	0.600	0.220	0.005	0.282	0.032	0.140	0.180	0.140	0.520	0.070	0.040	16,000	57
E	(15.240)	(5.588)	(0.127)	(7.163)	(0.813)	(3.556)	(4.572)	(3.556)	(13.208)	(1.778)	(1.016)	(406.400)	—

\* May vary depending upon application.  
\*\* See Figure 1 for finger patterns.

# FINGERSTOCK

## SYMMETRICAL (S<sup>3</sup>) SLOTTED SHIELDING



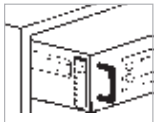
Strips with Sticky Fingers® and Rivet Mounts exhibit typical attenuation >100 dB for a 100 MHz plane wave.



### WITH STICKY FINGERS

Series 97-951/954/957 are low compression, adhesive-mounted beryllium copper shielding strips. Designed as a continuous band, the strip is slotted to permit spring contact throughout its length. A wide radius profile creates

the greatest contact for maximum conductivity with minimum compression requirements. As with all Sticky Fingers shielding strips, a self-adhesive tape makes mounting easy and secure. All are available in your choice of finishes, see page 17.



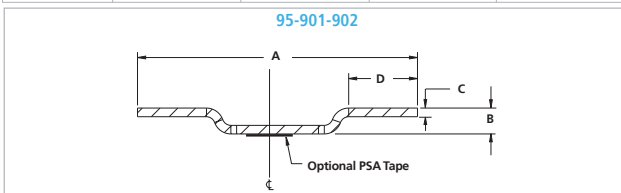
### WITH BI-DIRECTIONAL RIVET MOUNT

Series 97-952/955/958 are as described above, but with the addition of an integral pierced brass track to provide plastic push rivet mounting in a 0.125 in. (3.175 mm) diameter hole.

Designed especially for slide applications, this configuration allows total symmetrical compression action with bi-directional engagement. It is recommended for high temperature and/or extremely high side load situations, such as PC board connections and electronic drawers. All are available in your choice of finishes, see page 17. Both are available in UltraSoft® low compression force 98-Series.

### S<sup>3</sup> SERIES

SERIES	A	B	C	D
95-901	0.284 (7.214)	0.030 (0.762)	0.010 (0.254)	0.068 (1.727)
95-902	0.325 (8.255)	0.030 (0.762)	0.010 (0.254)	0.080 (2.032)

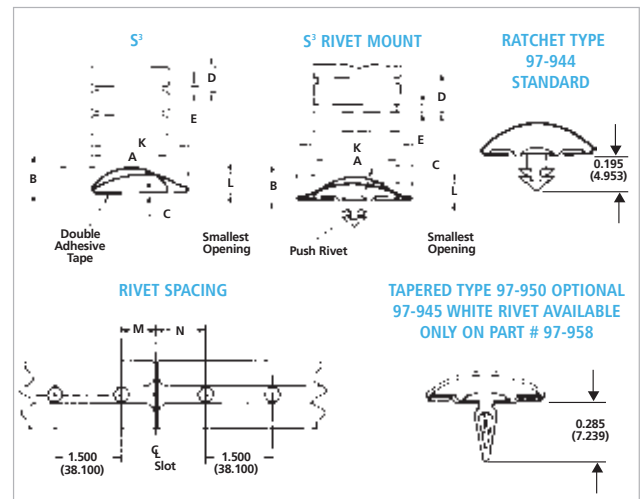


### S<sup>3</sup> SERIES — STICKY FINGERS

SERIES	A MIN.	B	C	D	E	K	L	APPROX. LENGTH
97-951	0.620 (15.748)	0.220 (5.588)	0.004 (0.102)	0.375 (9.525)	0.030 (0.762)	0.760 (19.304)	0.100 (2.540)	15.000 (381.000)
97-954	0.450 (11.430)	0.140 (3.556)	0.003 (0.076)	0.250 (6.350)	0.022 (0.559)	0.510 (12.954)	0.070 (1.778)	15.000 (381.000)
97-957	0.350 (8.890)	0.110 (2.794)	0.003 (0.076)	0.187 (4.750)	0.018 (0.457)	0.380 (9.652)	0.055 (1.397)	15.000 (381.000)

### S<sup>3</sup> SERIES — RIVET MOUNT

SERIES	A	B MIN.	C	D	E	K	L	APPROX. LENGTH	M	N	NO. OF RIVETS
97-952	0.620 (15.748)	0.220 (5.588)	0.004 (0.102)	0.375 (9.525)	0.030 (0.762)	0.760 (19.304)	0.100 (2.540)	15.000 (381.000)	0.560 (14.224)	0.940 (23.876)	10
97-955	0.450 (11.430)	0.140 (3.556)	0.003 (0.076)	0.250 (6.350)	0.022 (0.559)	0.510 (12.954)	0.070 (1.778)	15.000 (381.000)	0.630 (16.002)	0.880 (22.352)	10
97-958	0.350 (8.890)	0.110 (2.794)	0.003 (0.076)	0.187 (4.750)	0.018 (0.457)	0.380 (9.652)	0.070 (1.778)	15.000 (381.000)	0.660 (16.764)	0.840 (21.336)	10

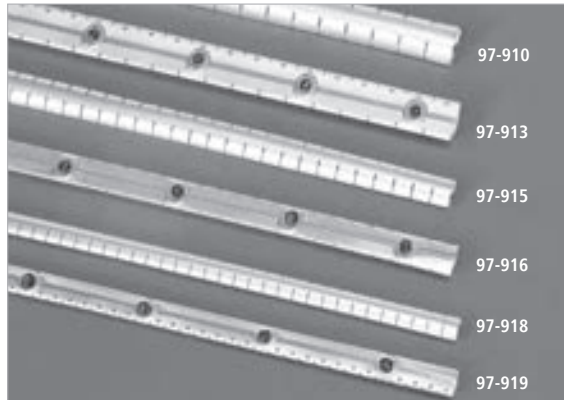


2 rivet types are available. Consult sales for more information.

# FINGERSTOCK SOLID TOP (S<sup>3</sup>) SYMMETRICAL SLOTTED SHIELDING GASKET

Laird offers their Solid Top Symmetrical Slotted Shielding Gaskets. This product is uniquely designed for those applications where a lid or cover is closed using a sliding motion to complete the closure. The solid top design allows the cover to slide either perpendicularly or parallel to the fingerstock without snagging or damaging the gasket.

- Solid top provides an additional 10 dB of shielding effectiveness
- Offered in both rivet mount and tape mount versions
- Available with two types of rivets
- Generous radii provide maximum conductivity with minimum compression forces
- Parts can be modified and/or cut to any specific length
- For longitudinal sliding applications, a retention clip is recommended for secure mounting
- Available in standard or UltraSoft<sup>®</sup> (part numbers beginning with -98) versions



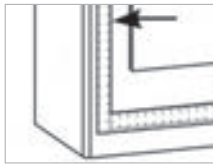
### SOLID TOP S<sup>3</sup> SERIES - STICKY FINGERS

SERIES	A MIN.	B	C	D	E	K	L	APPROX. LENGTH
97-910	0.620 (15.748)	0.220 (5.588)	0.004 (0.102)	0.375 (9.525)	0.030 (0.762)	0.760 (19.304)	0.100 (2.540)	15.000 (381.000)
97-915	0.450 (11.430)	0.140 (3.556)	0.003 (0.076)	0.250 (6.350)	0.022 (0.559)	0.510 (12.954)	0.070 (1.778)	15.000 (381.000)
97-918	0.350 (8.890)	0.110 (2.794)	0.003 (0.076)	0.187 (4.750)	0.018 (0.457)	0.380 (9.652)	0.070 (1.778)	15.000 (381.000)

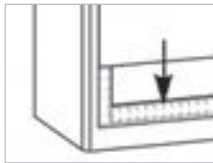
### SOLID TOP S<sup>3</sup> SERIES - RIVET MOUNT

SERIES	A MIN.	B	C	D	E	K	L	APPROX. LENGTH	M	N	NO. OF RIVETS
97-913	0.620 (15.748)	0.220 (5.588)	0.004 (0.102)	0.375 (9.525)	0.030 (0.762)	0.760 (19.304)	0.100 (2.540)	15.000 (381.000)	0.560 (14.224)	0.940 (23.876)	10 —
97-916	0.450 (11.430)	0.140 (3.556)	0.003 (0.076)	0.250 (6.350)	0.022 (0.559)	0.510 (12.954)	0.070 (1.778)	15.000 (381.000)	0.630 (16.002)	0.880 (22.352)	10 —
97-919	0.350 (8.890)	0.110 (2.794)	0.003 (0.076)	0.187 (4.750)	0.018 (0.457)	0.380 (9.652)	0.070 (1.778)	15.000 (381.000)	0.660 (16.764)	0.840 (21.336)	10

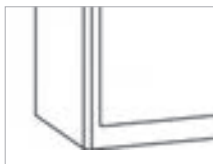
RETENTION CLIP	PART NO.	RIVET MOUNT PART NO.
97-964	Used On	97-919
97-965	Used On	97-916
97-966	Used On	97-913



View A - Computer tower side panel is moved sideways during the first step of installation.

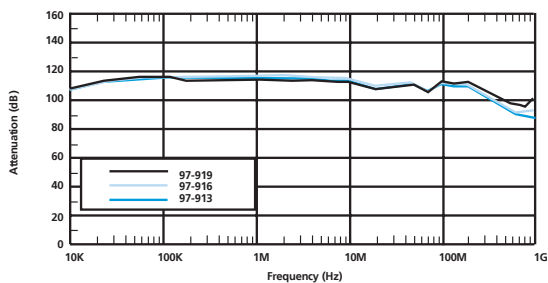


View B - Next, the panel is moved downwards, sliding longitudinally on the vertical finger gasket.

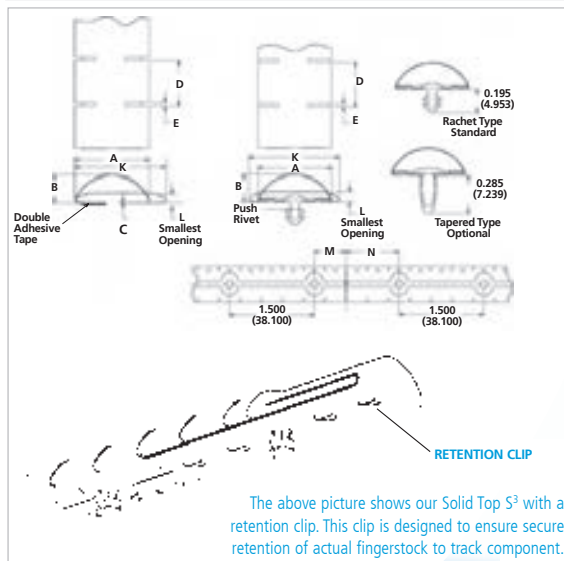


View C - Fully installed panel is now compressing both finger gaskets.

### SOLID TOP S<sup>3</sup> TRANSFER IMPEDANCE



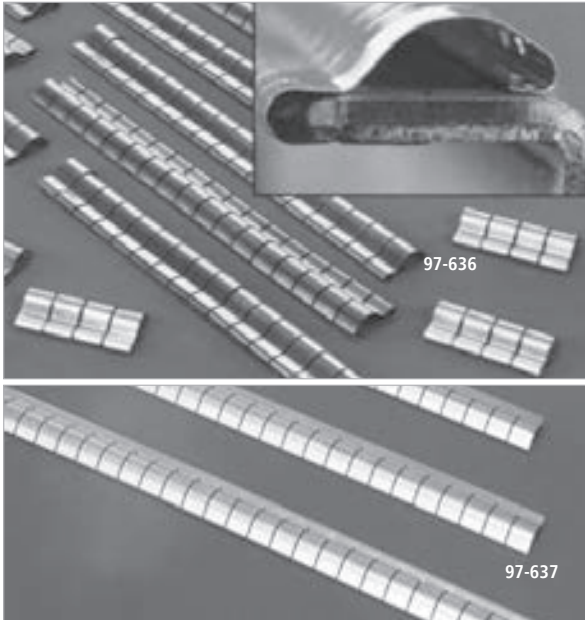
All dimensions shown are in inches (millimeters) unless otherwise specified.



The above picture shows our Solid Top S<sup>3</sup> with a retention clip. This clip is designed to ensure secure retention of actual fingerstock to track component.

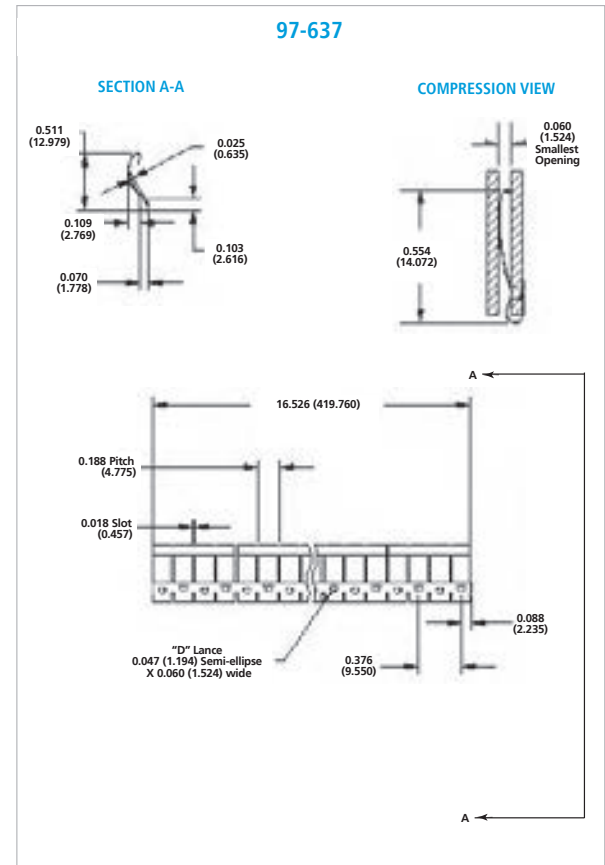
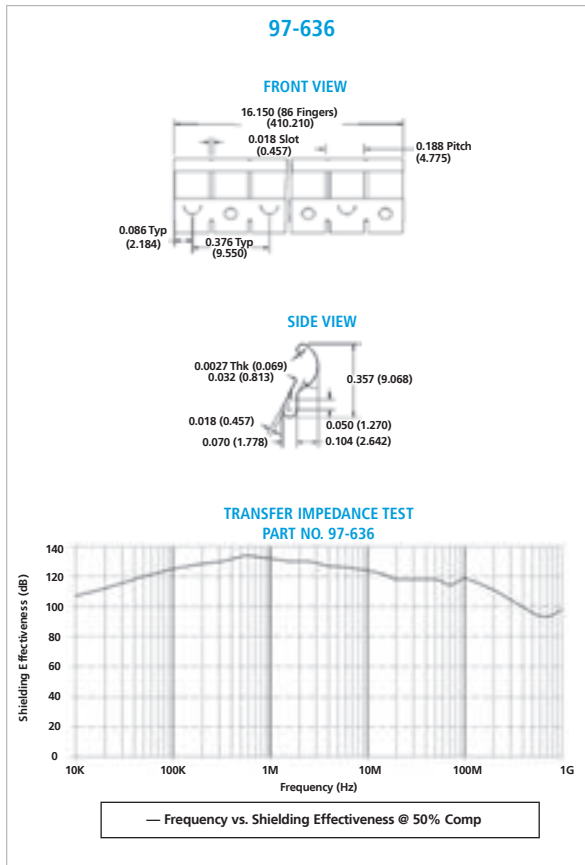
# FINGERSTOCK

## CLIP-ON SYMMETRICAL SHIELDING



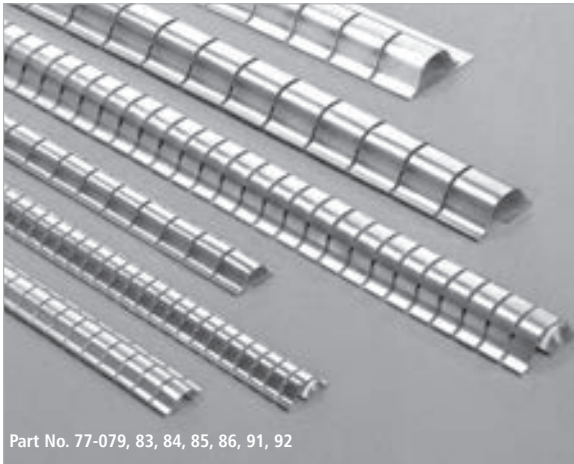
The 97-636 and 97-637 Clip-On Symmetrical Shielding Gaskets have been designed to function equally well in applications requiring sliding movement or direct compression.

- Supplied with standard "D" lance ensuring secure holding power when snapped into a prefabricated hole
- "D" lance provides both multi-directional grip and excellent conductivity
- Wide radius profile allows for maximum contact with minimum compression force
- Clip-On feature allows part to be used in high temperature (above 250°F) applications where adhesives will not function
- Available in our UltraSoft<sup>®</sup>, 98-Series low force version
- Ideally suited for cardcage handles, PC board grounding or any other application requiring clip-on feature and wiping action
- Shielding effectiveness of 100 dB @ 100 MHz
- Available in a wide variety of plating finishes, see page 17



All dimensions shown are in inches (millimeters) unless otherwise specified.

# FINGERSTOCK NO SNAG GASKET



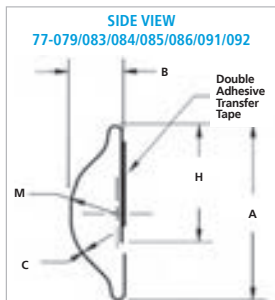
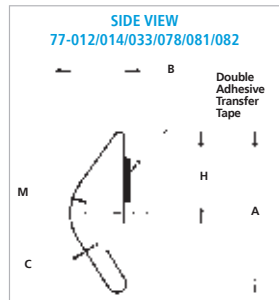
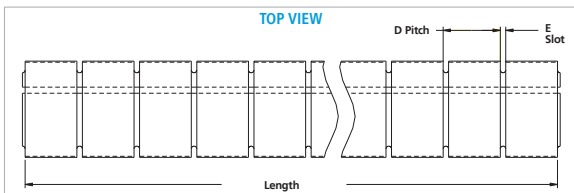
Laird No Snag Series shielding gaskets offer the designer a low compression, no snag design. Provided with Sticky Fingers® self-adhesive tape, these beryllium copper shielding gaskets provide easy and secure mounting.

- Shielding effectiveness of > 100 dB (77-012) and 80 dB (77-014) for a 100 MHz plane wave
- Easy, cost-effective installation since fasteners are not required
- Ideal as an all-purpose contact strip for metal cabinets and electronic enclosures
- Available in a wide variety of plated finishes, see page 17
- Supplied in standard 24.000 in. (609.600 mm) lengths or other specified lengths

### NO SNAG GASKET DIMENSIONS

SERIES	A	B	C	D	E	H	M	RADIUS	APPROX. LENGTH
77-012	0.320 (8.128)	0.110 (2.794)	0.002 (0.051)	0.187 (4.750)	0.018 (0.457)	0.210 (5.334)	0.110 (2.794)		24.000 (609.600)
* 77-014	0.600 (15.240)	0.220 (5.588)	0.004 (0.102)	0.375 (9.525)	0.032 (0.813)	0.280 (7.112)	0.180 (4.572)		24.000 (609.600)
77-033	0.370 (9.398)	0.130 (3.302)	0.002 (0.051)	0.250 (6.350)	0.025 (0.635)	0.210 (5.334)	0.110 (2.794)		16.000 (406.400)
* 77-078	0.800 (20.320)	0.320 (8.128)	0.004 (0.102)	0.375 (9.525)	0.032 (0.813)	0.440 (11.176)	0.190 (4.826)		24.000 (609.600)
* 77-079	0.320 (8.128)	0.100 (2.540)	0.035 (0.889)	0.156 (3.962)	0.018 (0.457)	0.210 (5.334)	0.100 (2.540)		16.000 (406.400)
77-081	0.280 (7.112)	0.110 (2.794)	0.002 (0.051)	0.187 (4.750)	0.018 (0.457)	0.180 (4.572)	0.100 (2.540)		24.000 (609.600)
* 77-082	1.100 (27.940)	0.400 (10.160)	0.005 (0.127)	0.500 (12.700)	0.040 (1.016)	0.780 (19.812)	0.420 (10.668)		24.000 (609.600)
* 77-083	0.370 (9.398)	0.130 (3.302)	0.004 (0.102)	0.125 (3.175)	0.025 (0.635)	0.100 (2.540)	0.202 (5.131)		16.000 (406.400)
* 77-084	0.370 (9.398)	0.130 (3.302)	0.004 (0.102)	0.250 (6.350)	0.025 (0.635)	0.100 (2.540)	0.202 (5.131)		16.000 (406.400)
* 77-085	0.600 (15.240)	0.220 (5.588)	0.004 (0.102)	0.375 (9.525)	0.032 (0.813)	0.150 (3.810)	0.295 (7.493)		18.000 (457.200)
* 77-086	0.320 (8.128)	0.090 (2.286)	0.003 (0.762)	0.187 (4.750)	0.018 (0.457)	0.210 (5.334)	0.100 (2.540)		16.000 (406.400)
* 77-091	0.600 (15.240)	0.220 (5.588)	0.004 (0.102)	0.375 (9.525)	0.032 (0.813)	0.780 (19.812)	0.150 (3.810)		18.000 (457.200)
* 77-092	0.600 (15.240)	0.220 (5.588)	0.004 (0.102)	0.187 (4.750)	0.032 (0.813)	0.295 (7.493)	0.150 (3.810)		18.000 (457.200)

\* Available in UltraSoft® low compression version as -78.



All dimensions shown are in inches (millimeters) unless otherwise specified.

# FINGERSTOCK

## ALL-PURPOSE SERIES



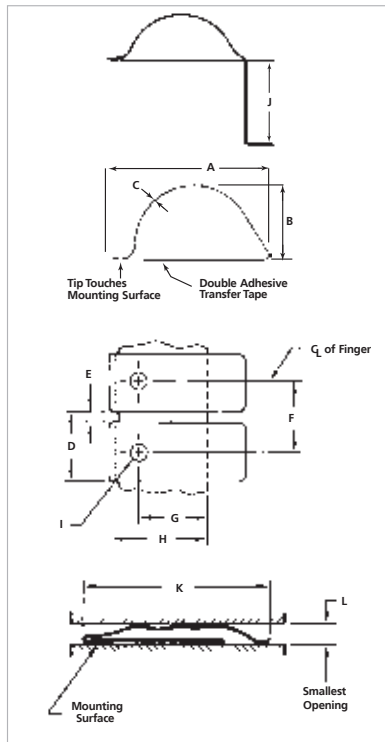
These versatile gaskets are made from high-performance beryllium copper with Sticky Fingers® self-adhesive backing. They provide an extremely tight, instant bond and are ideal as an all-purpose contact strip for metal cabinets and electronic enclosures, particularly where space is critical.

Magnetic field shielding effectiveness of these strips has been proven to be > 46 dB for a 14 kHz plane wave and 108 dB for a 10 GHz plane wave. When tested per MIL-STD-285 for electromagnetic shielding, these strips showed superior performance under minimum compression. They proved to be especially effective where variations exist in the space to be shielded and in applications that require high shielding performance despite frequent opening and closing of the cabinet.

Strips 97-500 and 97-538 are furnished in standard lengths of 24.000 in. (609.600 mm) and in continuous 25.0 ft. (7.6 m) coils. Series 97-520 and 97-540 are supplied in standard 16.000 in. (406.400 mm) lengths and in 25.0 ft. (7.6 m) coils. Strips 97-537, 97-535 and 97-545 are supplied in 12.000 in. (304.800 mm) lengths. All are available in your choice of finishes, see page 17.

Please note that designated strips are available with Magnefil®, a rubber strip filled with magnetic absorbing particles and inserted within the curve of the fingers. Magnefil provides increased magnetic field shielding.

These 97-Series products are also available in UltraSoft® low compression force 98-Series.

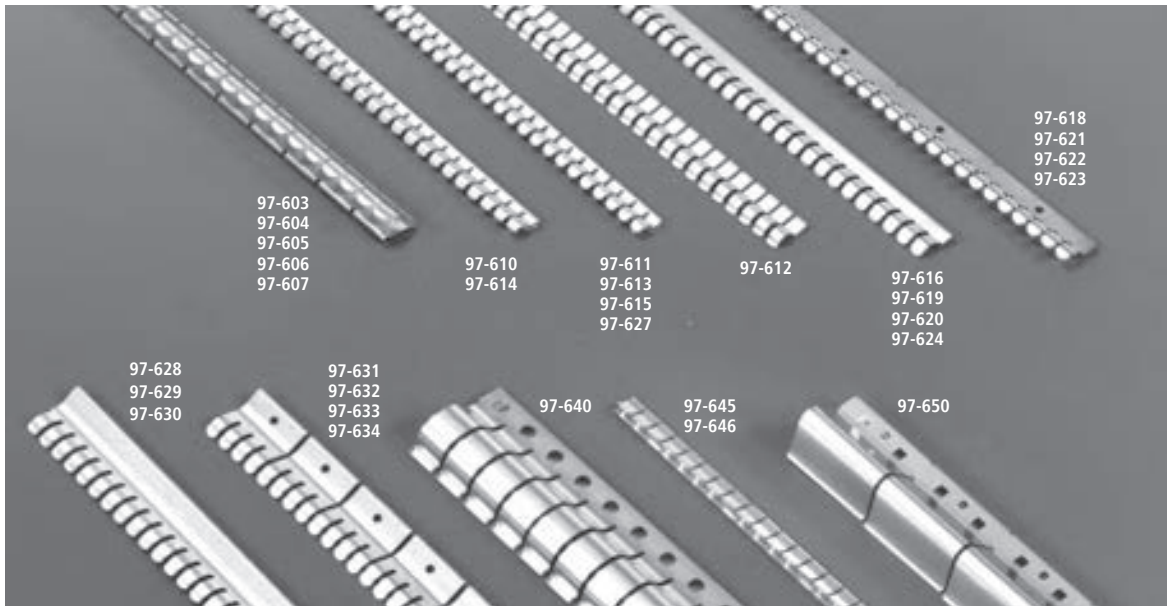


All dimensions shown are in inches (millimeters) unless otherwise specified.

### ALL-PURPOSE SERIES

SERIES	A MIN.	B	C	D	E	F	G	H	I	J	K	L	APPROX. LENGTH	APPROX. COIL FT (M)
97-500	0.600 (15.240)	0.230 (5.842)	0.004 (0.102)	0.375 (9.525)	0.032 (0.813)	0.380 (9.652)	0.310 (7.874)	0.500 (12.700)	0.080 (2.032)	N/A	0.770 (19.558)	0.040 (1.016)	24.000 (609.600)	25.0 (7.6)
97-505	0.600 (15.240)	0.230 (5.842)	0.004 (0.102)	0.375 (9.525)	0.032 (0.813)	0.380 (9.652)	0.310 (7.874)	N/A	0.080 (2.032)	0.500 (12.700)	0.770 (19.558)	0.040 (1.016)	24.000 (609.600)	25.0 (7.6)
97-510	0.600 (15.240)	0.230 (5.842)	0.004 (0.102)	0.375 (9.525)	0.032 (0.813)	0.380 (9.652)	0.310 (7.874)	0.500 (12.700)	0.080 (2.032)	N/A	0.770 (19.558)	0.040 (1.016)	24.000 (609.600)	25.0 (7.6)
97-520	0.370 (9.398)	0.140 (3.556)	0.003 (0.076)	0.250 (6.350)	0.022 (0.559)	0.250 (6.350)	0.090 (2.286)	0.310 (7.874)	0.060 (1.524)	N/A	0.500 (12.700)	0.070 (1.778)	16.000 (406.400)	25.0 (7.6)
97-525	0.370 (9.398)	0.140 (3.556)	0.003 (0.076)	0.250 (6.350)	0.022 (0.559)	0.250 (6.350)	0.090 (2.286)	N/A	0.060 (1.524)	0.320 (8.128)	0.500 (12.700)	0.070 (1.778)	16.000 (406.400)	25.0 (7.6)
97-527	0.280 (7.112)	0.055 (1.397)	0.002 (0.051)	0.125 (3.175)	0.025 (0.635)	N/A	N/A	0.183 (4.648)	N/A	N/A	0.300 (7.620)	0.040 (1.016)	16.000 (406.400)	N/A
97-535	0.780 (19.812)	0.250 (6.350)	0.005 (0.127)	0.375 (9.525)	0.040 (1.016)	0.380 (9.652)	0.380 (9.652)	N/A	0.140 (3.556)	0.480 (12.192)	0.940 (23.876)	0.080 (2.032)	12.000 (304.800)	25.0 (7.6)
97-536	0.670 (17.018)	0.310 (7.874)	0.004 (0.102)	0.375 (9.525)	0.040 (1.016)	0.380 (9.652)	0.380 (9.652)	0.530 (13.462)	0.140 (3.556)	N/A	0.940 (23.876)	0.140 (3.556)	24.000 (609.600)	25.0 (7.6)
97-537	1.130 (28.702)	0.410 (10.414)	0.007 (0.178)	0.500 (12.700)	0.040 (1.016)	0.500 (12.700)	0.560 (14.224)	0.780 (19.812)	0.140 (3.556)	N/A	1.940 (49.276)	0.100 (2.540)	12.000 (304.800)	N/A
97-538	0.780 (19.812)	0.250 (6.350)	0.005 (0.127)	0.375 (9.525)	0.040 (1.016)	0.380 (9.652)	0.380 (9.652)	0.530 (13.462)	0.140 (3.556)	N/A	0.940 (23.876)	0.080 (2.032)	16.000 (406.400)	25.0 (7.6)
97-540	0.280 (7.112)	0.110 (2.794)	0.003 (0.076)	0.188 (4.775)	0.018 (0.457)	0.190 (4.826)	0.080 (2.032)	0.230 (5.842)	0.060 (1.524)	N/A	0.370 (9.398)	0.065 (1.651)	16.000 (406.400)	25.0 (7.6)
97-544	0.260 (6.604)	0.110 (2.794)	0.003 (0.076)	0.188 (4.775)	0.018 (0.457)	0.190 (4.826)	0.080 (2.032)	N/A	0.060 (1.524)	0.240 (6.096)	0.370 (9.398)	0.065 (1.651)	16.000 (406.400)	25.0 (7.6)
97-545	1.130 (28.702)	0.410 (10.414)	0.007 (0.178)	0.500 (12.700)	0.040 (1.016)	0.500 (12.700)	0.560 (14.224)	N/A	0.140 (3.556)	0.750 (19.050)	1.940 (49.276)	0.100 (2.540)	12.000 (304.800)	N/A
97-548	0.780 (19.812)	0.250 (6.350)	0.005 (0.127)	0.375 (9.525)	0.040 (1.016)	0.380 (9.652)	0.380 (9.652)	0.530 (13.462)	0.140 (3.556)	N/A	0.940 (23.876)	0.080 (2.032)	24.000 (609.600)	25.0 (7.6)

# FINGERSTOCK CLIP-ON SERIES



97-603  
97-604  
97-605  
97-606  
97-607

97-610  
97-614

97-611  
97-613  
97-615  
97-627

97-612

97-616  
97-619  
97-620  
97-624

97-618  
97-621  
97-622  
97-623

97-628  
97-629  
97-630

97-631  
97-632  
97-633  
97-634

97-640

97-645  
97-646

97-650

This series from Laird is designed for use where high temperature or other design considerations preclude the use of adhesive-mounted gasketing. Yet it provides the same shielding characteristics and effectiveness as on Sticky Fingers® mounted series. Clip-On Gaskets offer shielding effectiveness >100 dB for 100 MHz plane wave. All are available in your choice of finishes, see page 17. These 97-Series products are also available in UltraSoft® low compression force 98-Series.

### SNAP-TITE® WITH "D" LANCE

This configuration has been designed specifically to provide outstanding holding power. "D" lances snap into drilled or punched holes in the mounting surface to create a strong omnidirectional grip with excellent conductivity.

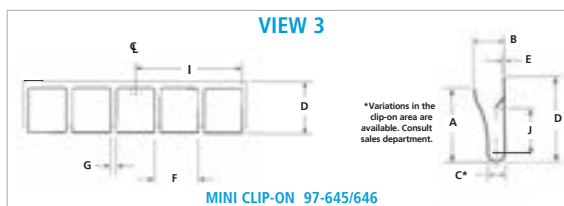
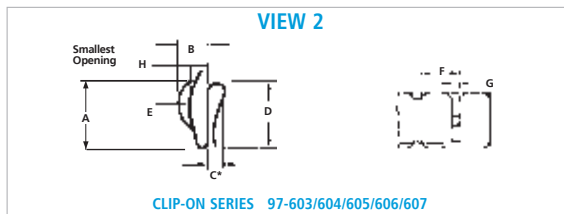
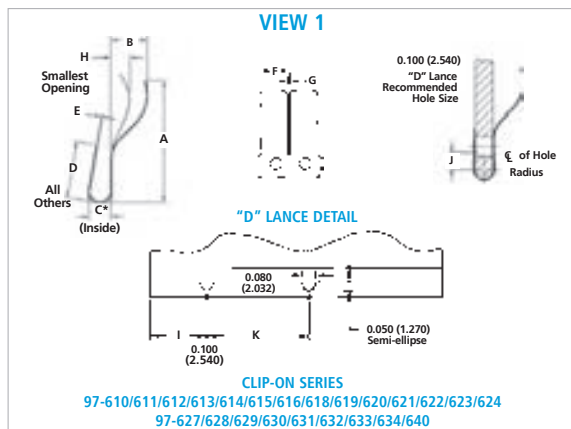
### GRIP-TITE® WITH "T" LANCE

Ideal for use with softer materials, such as aluminum or plated plastic. "T" lances bite into the mounting surface and preserve electrical conductivity.

### MINI CLIP-ON

Laird Mini Clip-On (97-645/646) Gaskets are designed for use on today's thinner, lighter materials.

- Lowest compression force available in clip-on configuration
- Virtually no compression set – 100% recovery of original height at up to 60% compression
- "D" lance for extra holding power
- Optimum conductivity and mechanical properties of beryllium copper
- High cycle life – 50,000 cycles without fracture, wear, or compression set



All dimensions shown are in inches (millimeters) unless otherwise specified.



# FINGERSTOCK CLIP-ON SERIES

## CLIP-ON SERIES DIMENSIONS

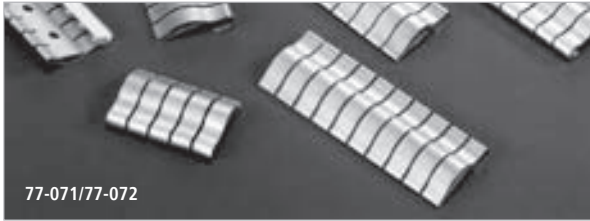
VIEW	SERIES	A	B	C	D	E	F	G	H	APPROX. LENGTH	NO LANCE	SQUARE LANCE SQ	GRIP-TITE™ "T" LANCE GT	SNAP-TITE™ "D" LANCE ST	LANCE LOCATIONS DIMENSIONS		LANCE TO LANCE DIMS. K	BODY STYLE	
											NL				I	J		SLOT	SOL
2	97-603	0.380 (9.652)	0.200 (5.080)	0.100 (2.540)	0.330 (8.382)	0.005 (0.127)	0.250 (6.350)	0.040 (1.016)	0.060 (1.524)	16.000 (406.400)	—	—	—	X	0.250 (6.350)	0.099 (2.515)	0.500 (12.700)	X	—
2	97-604	0.330 (8.382)	0.280 (7.112)	0.070 (1.778)	0.380 (9.652)	0.005 (0.127)	0.250 (6.350)	0.040 (1.016)	0.100 (2.540)	16.000 (406.400)	—	—	X	—	0.230 (5.842)	0.204 (5.182)	0.500 (12.700)	X	—
2	97-605	0.380 (9.652)	0.200 (5.080)	0.070 (1.778)	0.380 (9.652)	0.005 (0.127)	0.250 (6.350)	0.040 (1.016)	0.060 (1.524)	16.000 (406.400)	—	—	X	—	0.230 (5.842)	0.204 (5.182)	0.500 (12.700)	X	—
2	97-606	0.380 (9.652)	0.200 (5.080)	0.070 (1.778)	0.380 (9.652)	0.005 (0.127)	0.250 (6.350)	0.040 (1.016)	0.060 (1.524)	16.000 (406.400)	—	—	—	X	0.250 (6.350)	0.161 (4.089)	0.500 (12.700)	X	—
2	97-607	0.330 (8.382)	0.280 (7.112)	0.070 (1.778)	0.380 (9.652)	0.005 (0.127)	0.250 (6.350)	0.040 (1.016)	0.100 (2.540)	16.000 (406.400)	—	—	—	X	0.250 (6.350)	0.161 (4.089)	0.500 (12.700)	X	—
1	97-610	0.300 (7.620)	0.100 (2.540)	0.070 (1.778)	0.190 (4.826)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.065 (1.651)	16.000 (406.400)	X	—	#	#	—	—	—	—	X
1	97-611	0.300 (7.620)	0.100 (2.540)	0.070 (1.778)	0.190 (4.826)	0.005 (0.127)	0.182 (4.623)	0.047 (1.194)	0.060 (1.524)	16.000 (406.400)	—	—	X	—	0.364 (9.246)	0.062 (1.575)	0.728 (18.491)	X	—
1	97-612	0.440 (11.176)	0.100 (2.540)	0.070 (1.778)	0.190 (4.826)	0.003 (0.076)	0.187 (4.750)	0.047 (1.194)	0.045 (1.143)	16.000 (406.400)	#	X	—	—	0.093 (2.362)	0.050 (1.270)	0.750 (19.050)	X	—
1	97-613	0.300 (7.620)	0.100 (2.540)	0.070 (1.778)	0.190 (4.826)	0.005 (0.127)	0.182 (4.623)	0.047 (1.194)	0.060 (1.524)	16.000 (406.400)	—	—	—	X	0.364 (9.246)	0.054 (1.372)	0.728 (18.491)	X	—
1	97-614	0.300 (7.620)	0.100 (2.540)	0.050 (1.270)	0.190 (4.826)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.065 (1.651)	16.000 (406.400)	X	—	#	#	—	—	—	—	X
1	97-615	0.297 (7.544)	0.100 (2.540)	0.050 (1.270)	0.187 (4.750)	0.005 (0.127)	0.182 (4.623)	0.047 (1.194)	0.050 (1.270)	16.000 (406.400)	—	—	—	X	0.364 (9.246)	0.309 (7.849)	0.728 (18.491)	—	X
1	97-616	0.420 (10.668)	0.120 (3.048)	0.100 (2.540)	0.250 (6.350)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.095 (2.413)	16.000 (406.400)	X	—	—	—	—	—	—	—	X
1	97-618	0.420 (10.668)	0.140 (3.556)	0.060 (1.524)	0.210 (5.334)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.080 (1.778)	16.000 (406.400)	—	—	—	X	0.500 (12.700)	0.065 (1.651)	1.000 (25.400)	—	X
1	97-619	0.440 (11.176)	0.080 (2.032)	0.050 (1.270)	0.190 (4.826)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.045 (1.143)	16.000 (406.400)	X	—	#	#	—	—	—	—	X
1	97-620	0.440 (11.176)	0.080 (2.032)	0.070 (1.778)	0.190 (4.826)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.045 (1.143)	16.000 (406.400)	X	—	#	#	—	—	—	—	X
1	97-621	0.440 (11.176)	0.120 (3.048)	0.070 (1.778)	0.230 (5.842)	0.005 (0.127)	0.193 (4.902)	0.046 (1.168)	0.070 (1.778)	16.000 (406.400)	—	—	X	—	0.652 (16.561)	0.084 (2.134)	1.351 (34.315)	X	—
1	97-622	0.440 (11.176)	0.120 (3.048)	0.070 (1.778)	0.190 (4.826)	0.005 (0.127)	0.193 (4.902)	0.046 (1.168)	0.075 (1.905)	16.000 (406.400)	—	—	—	X	0.290 (7.366)	0.060 (1.524)	0.725 (18.415)	X	—
1	97-623	0.420 (10.668)	0.080 (2.032)	0.070 (1.778)	0.187 (4.750)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.045 (1.143)	16.000 (406.400)	—	—	—	X	0.530 (13.462)	0.064 (1.626)	1.000 (25.400)	—	X
1	97-624	0.420 (10.668)	0.140 (3.556)	0.060 (1.524)	0.210 (5.334)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.080 (2.032)	16.000 (406.400)	X	—	—	—	—	—	—	—	X
1	97-627	0.297 (7.544)	0.099 (2.515)	0.070 (1.778)	0.187 (4.750)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.049 (1.245)	16.000 (406.400)	—	—	—	X	0.280 (7.112)	0.049 (1.245)	0.748 (19.000)	—	X
1	97-628	0.600 (15.240)	0.210 (5.334)	0.100 (2.540)	0.230 (5.842)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.070 (1.778)	16.000 (406.400)	X	—	#	#	—	—	—	—	X
1	97-629	0.600 (15.240)	0.210 (5.334)	0.050 (1.270)	0.190 (4.826)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.070 (1.778)	16.000 (406.400)	X	—	#	#	—	—	—	—	X
1	97-630	0.600 (15.240)	0.210 (5.334)	0.070 (1.778)	0.190 (4.826)	0.005 (0.127)	0.187 (4.750)	0.047 (1.194)	0.070 (1.778)	16.000 (406.400)	X	—	#	#	—	—	—	—	X
1	97-631	0.600 (15.240)	0.210 (5.334)	0.070 (1.778)	0.190 (4.826)	0.005 (0.127)	0.182 (4.623)	0.047 (1.194)	0.080 (2.032)	16.000 (406.400)	—	—	X	—	0.364 (9.246)	0.058 (1.473)	0.728 (18.491)	X	—
1	97-632	0.600 (15.240)	0.210 (5.334)	0.070 (1.778)	0.190 (4.826)	0.005 (0.127)	0.182 (4.623)	0.047 (1.194)	0.080 (2.032)	16.000 (406.400)	—	—	—	X	0.364 (9.246)	0.058 (1.473)	0.728 (18.491)	X	—
1	97-633	0.600 (15.240)	0.210 (5.334)	0.050 (1.270)	0.190 (4.826)	0.005 (0.127)	0.182 (4.623)	0.047 (1.194)	0.080 (2.032)	16.000 (406.400)	—	—	X	—	0.364 (9.246)	0.058 (1.473)	0.728 (18.491)	X	—
1	97-634	0.600 (15.240)	0.210 (5.334)	0.050 (1.270)	0.190 (4.826)	0.005 (0.127)	0.182 (4.623)	0.047 (1.194)	0.080 (2.032)	16.000 (406.400)	—	—	—	X	0.364 (9.246)	0.058 (1.473)	0.728 (18.491)	X	—
1	97-640	1.090 (27.686)	0.260 (6.604)	0.070 (1.778)	0.280 (7.112)	0.005 (0.127)	0.375 (9.525)	0.040 (1.016)	0.060 (1.524)	16.000 (406.400)	X	—	#	#	—	—	—	—	X
3	97-645	0.210 (5.334)	0.070 (1.778)	0.045 (1.143)	0.250 (6.350)	0.003 (0.076)	0.200 (5.080)	0.030 (0.762)	0.010 (0.254)	24.000 (609.600)	—	—	—	X	0.485 (12.319)	0.133 (3.378)	1.000 (25.400)	X	—
3	97-646	0.275 (6.985)	0.080 (2.036)	0.040 (1.016)	0.280 (7.112)	0.006 (0.152)	0.250 (6.350)	0.030 (0.762)	0.030 (0.762)	16.000 (406.400)	—	—	—	X	0.500 (12.700)	0.143 (3.617)	1.000 (25.400)	—	X
1	97-650	0.980 (24.892)	0.400 (10.160)	0.200 (5.080)	0.300 (7.620)	0.004 (0.102)	1.000 (25.400)	0.030 (0.762)	0.200 (5.080)	16.000 (406.400)	#	#	—	—	0.192 (4.877)	0.120 (3.048)	0.486 (12.344)	X	—

X Standard

# Optional

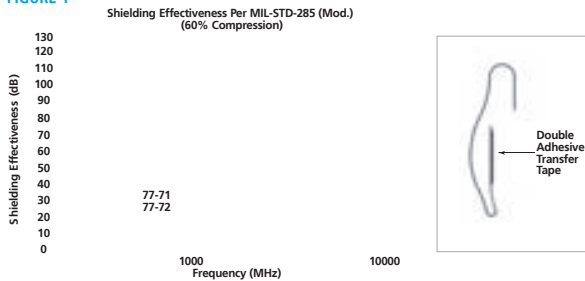
# FINGERSTOCK

## LOW PROFILE HOOK-ON GASKET

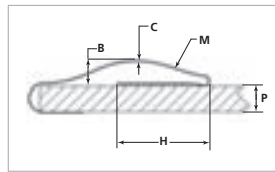
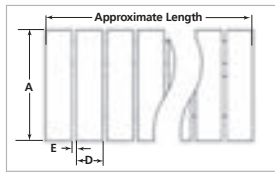


Laird offers its line of low profile beryllium copper shielding fingerstock. Simple installation is accomplished by hooking one end of the gasket onto the edge of the housing. The other end is secured with pressure sensitive adhesive (PSA) with extra-wide release liner and designed with a teardrop feature to improve surface contact. Ideally suited for low profile, bi-directional applications such as the rack mounting of linecards in telecommunications equipment. The gaskets offer high shielding performance in applications where space may be limited.

FIGURE 1



- Dual attachment provides a no snag gasket with secure retention, which allows bi-directional wiping action
- Incorporates extra wide release liner to facilitate easy installation
- Wide variety of plating finishes are available to meet your galvanic compatibility requirements
- Offered in standard lengths of 16.200 in. (411.480 mm) or cut to your desired length
- Available in UltraSoft® (-78) low force version



### DIMENSIONS

SERIES	A	B	C	D	E	H	M	P	APPROX. LENGTH	NO. OF FINGERS
77-071	0.450 (11.430)	0.060 (1.524)	0.004 (0.102)	0.125 (3.175)	0.018 (0.457)	0.267 (6.782)	0.200 (5.080)	0.062 (1.575)	16.200 (411.480)	130
77-072	0.600 (15.240)	0.090 (2.286)	0.004 (0.102)	0.125 (3.175)	0.018 (0.457)	0.329 (8.357)	0.200 (5.080)	0.062 (1.575)	16.200 (411.480)	130

## LOW PROFILE GASKET



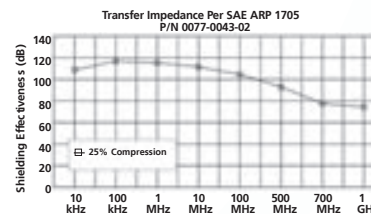
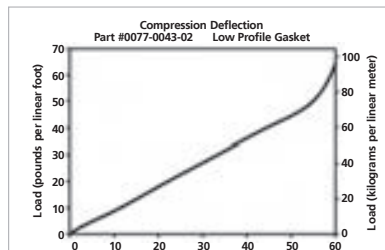
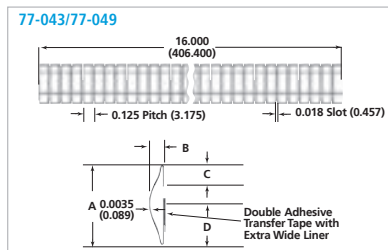
- Extra wide release liner of pressure sensitive tape provides for easy, cost-effective installation
- Low compression force
- Available in a wide variety of plated finishes to meet your galvanic compatibility needs
- Available in UltraSoft (-78) low force version
- Offered in standard lengths of 16.000 in. (406.400 mm), or cut to your desired length

Laird offers its line of low profile beryllium copper shielding fingerstock. The gaskets are provided with pressure sensitive adhesive tape with an extra wide release liner to facilitate secure placement and ease of application.

- Ideally suited for limited space applications as low as 0.060 in. (1.524 mm)
- Works well in both compression and bi-directional applications
- High shielding effectiveness; average 90 dB from 10 kHz to 1 GHz

### LOW PROFILE SERIES

SERIES	A	B	C	D
77-043	0.450 (11.430)	0.080 (2.032)	0.121 (3.073)	0.262 (6.665)
77-049	0.600 (15.240)	0.120 (3.048)	0.162 (4.115)	0.347 (8.814)



All dimensions shown are in inches (millimeters) unless otherwise specified.

# FINGERSTOCK LARGE ENCLOSURE SERIES

These standard beryllium copper contact gaskets offer ideal RFI/EMI shielding of doors and movable components in electronic shielded rooms, trailers, computers and communication equipment.

They have been scientifically designed for wiping closures, but are also usable in compression applications. Moreover, these contact strips feature extremely good endurance life, as well as a high deflection range. In tests, attenuation up to 112 dB has been measured for a 100 MHz plane wave. Fastening of the strip is usually accomplished using screws or rivets. Soldering is optional.

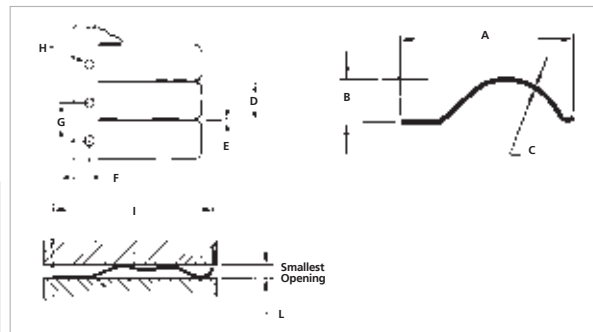
Both are available in continuous lengths to a maximum of 25.0 ft. (7.6 m) and in all standard finishes, see page 17.

These 97-Series products are also available in UltraSoft® low compression force 98-Series.



### LARGE ENCLOSURE SERIES

SERIES	A REF.	B MIN	C	D	E	F	G	H DIA.	I	L	APPROX. LENGTH FT. (M)
97-438	1.090 (27.686)	0.250 (6.350)	0.005 (0.127)	0.375 (9.525)	0.040 (1.016)	0.160 (4.064)	0.375 (9.525)	0.140 (3.556)	1.270 (32.258)	0.080 (2.032)	25.000 (7.6)
97-440	1.630 (41.402)	0.410 (10.414)	0.007 (0.178)	0.500 (12.700)	0.040 (1.016)	0.190 (4.826)	0.500 (12.700)	0.140 (3.556)	1.900 (48.260)	0.100 (2.540)	25.000 (7.6)

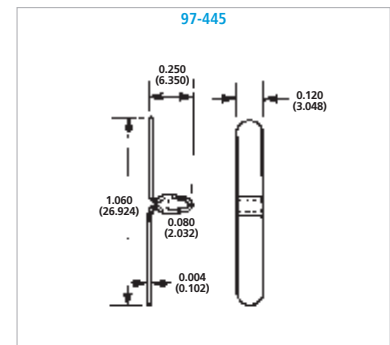
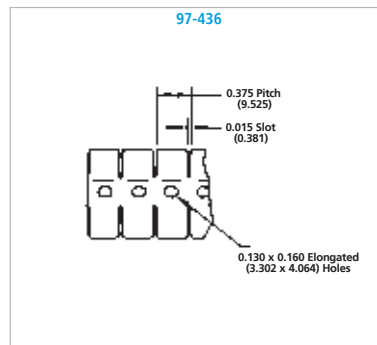
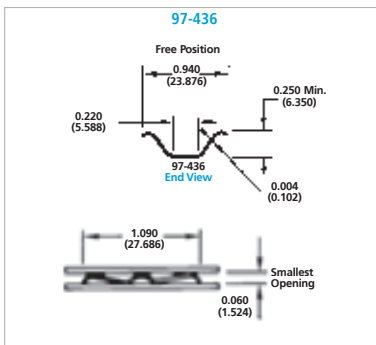
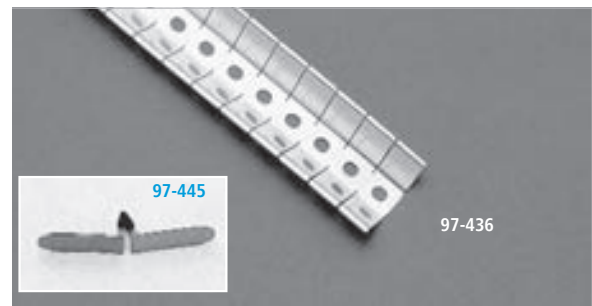


## DOUBLE-SIDED CONTACT SERIES

Mechanically balanced strips with high deflection range and long endurance life-provide a perfect fit as spring clips hold the gaskets firmly in place. It means more simplified design and construction of cabinets and enclosures. Attenuation > 102 dB for a 100 MHz plane wave has been measured using Series 97-436 gaskets. For standard finishes, see page 17. These 97-Series products are also available in UltraSoft low compression force 98-Series.

### QUICK SPRING CLIP FASTENERS (97-445)

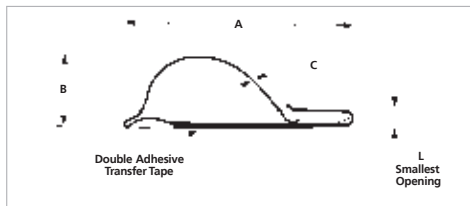
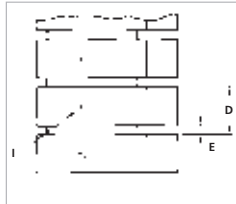
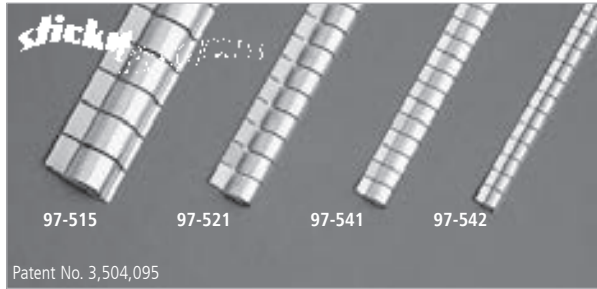
Designed for use with Series 97-436 finger gaskets, spring clip fasteners permit full strip compression. Easy to install, they permit lifting of gasket for cleaning of contact surface. Packaged in lots of 1,000. Available in standard finishes, see page 17.



All dimensions shown are in inches (millimeters) unless otherwise specified.

▲ Quick Spring Clip Fastener provides full strip compression; allows lifting of product for cleaning of contact surface.

# FINGERSTOCK FOLDOVER SERIES



This version of Sticky Fingers® beryllium copper shielding gaskets features a special U-shaped end that permits the finger of the strip to slide when enclosure doors are closed. It also retains the strip's fingers when enclosure doors are open, thus preventing accidental damage to the fingers. Shielding effectiveness is >115 dB for a 100 MHz plane wave.

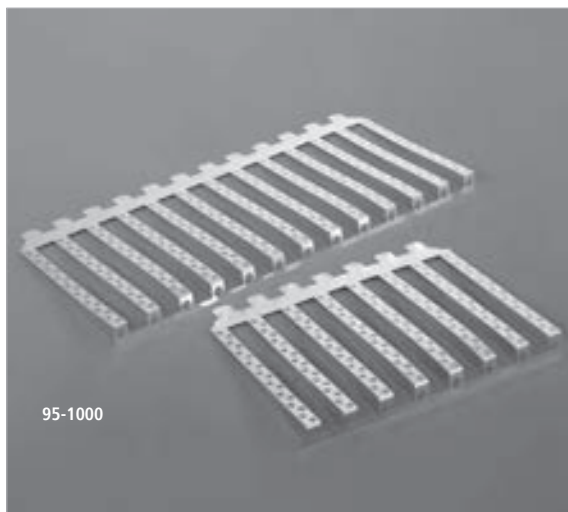
Four models provide you a choice of widths to suit your application. They are available in standard 16.000 in. (406.400 mm) lengths, except 97-515 which is furnished in 24.000 in. (609.600 mm) lengths. Also, all styles are available in continuous 25.0 ft. (7.6 m) coils, and in your choice of all finishes except tin lead and satin tin, see page 17.

These 97-Series products are also available in UltraSoft® low compression force 98-Series.

## FOLDOVER SERIES

SERIES	A	B	C	D PITCH	E SLOT	I DIA.	L	APPROX. LENGTH IN. (MM)	APPROX. COIL FT. (M)
97-515	0.760 (19.304)	0.230 (5.842)	0.004 (0.102)	0.375 (9.525)	0.032 (0.813)	0.080 (2.032)	0.060 (1.524)	24.000 (609.600)	25.0 (7.6)
97-521	0.510 (12.954)	0.140 (3.556)	0.003 (0.076)	0.250 (6.350)	0.022 (0.559)	0.060 (1.524)	0.070 (1.778)	16.000 (406.400)	25.0 (7.6)
97-541	0.380 (9.652)	0.120 (3.048)	0.003 (0.076)	0.188 (4.775)	0.018 (0.457)	0.060 (1.524)	0.050 (1.270)	16.000 (406.400)	25.0 (7.6)
97-542	0.250 (6.350)	0.080 (2.032)	0.003 (0.076)	0.188 (4.775)	0.018 (0.457)	0.060 (1.524)	0.050 (1.270)	16.000 (406.400)	25.0 (7.6)

## STAINLESS STEEL I/O SHIELDING



Laird offers its line of card cage shielding, designed to provide EMI/RFI shielding between the chassis and the slot covers.

- Provides a single gasket solution for a multiple of slot covers
- Material thickness of 0.004 in. (0.102 mm) insures low closure force and eliminates possible distortion of mating parts
- 18 contact fingers per rib provides contact points over length of the I/O bracket shield
- Superior contact finger design faces the card cage portion insuring snag-free insertion of add-in cards
- Stainless steel design provides galvanic compatibility to most enclosure materials
- Adaptable tooling allows for 1-21 slot configurations with no tooling cost
- Variable rib widths are available upon request

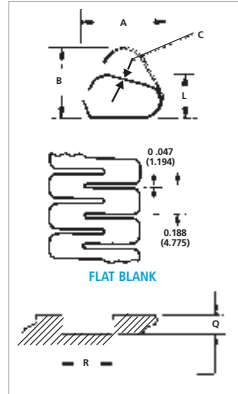
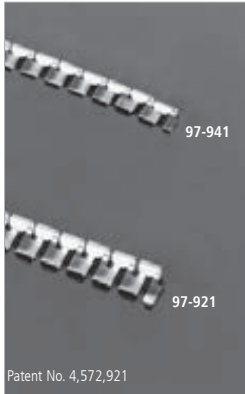
To discuss your particular application, please contact our sales department.

### HOW TO ORDER

All parts start with 009510 as the first six digits. The next two digits designate the number of slots in the part. The last two digits will be 00 for all standard configurations. Example: 0095-1018-00 represents an 18 slot part.

# FINGERSTOCK

## FLEXIBLE LOW COMPRESSION SERIES



Series 97-941/921 are low compression, flexible beryllium copper contact strips for applications where a continuous shield must conform to irregular shapes and turn tight radius corners in either direction.

Simple snap-in installation is possible for Series 97-921 with 0.250 in. (6.350 mm) slots and 97-941 with 0.190 in. (4.826 mm) slots. However, soft solder or conductive adhesive can be used for mounting to flat surfaces.

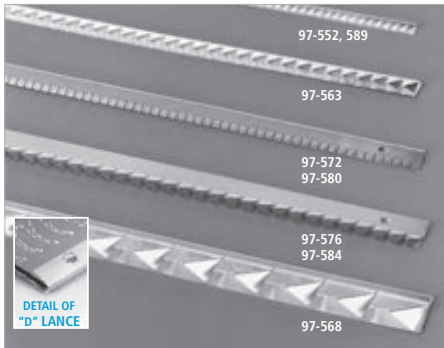
Shielding effectiveness is >115 dB for a 100 MHz plane wave.

Available in standard 24.000 in. (609.600 mm) lengths in all standard finishes, see page 17.

### FLEXIBLE LOW COMPRESSION SERIES

SERIES	A	B	C	L	Q	R	APPROX. LENGTH
97-921	0.260 (6.604)	0.230 (5.842)	0.003 (0.076)	0.140 (3.556)	0.120 (3.048)	0.250 (6.350)	24.0 (609.600)
97-941	0.195 (4.953)	0.170 (4.318)	0.003 (0.076)	0.110 (2.794)	0.090 (2.286)	0.190 (4.826)	24.0 (609.600)

## CLIP-ON TWIST SERIES

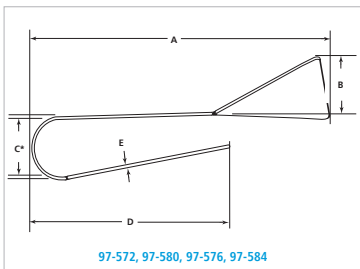


Ideal for general shielding applications where mounting space is at a premium, Clip-On Twist Series strips combine the performance advantages of scientific twist design with the strength of clip-on mounting.

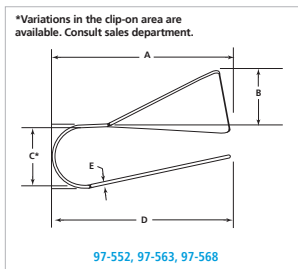
Clip-On Twist Series gaskets are offered in four different widths, each available in either equal leg or offset leg configurations. In addition, each offset leg configuration is available with Poron® rubber environmental gaskets for dust and moisture resistance, as well as with "D" lances that snap into 0.100 in. (2.540 mm) diameter holes to provide added mounted strength.

This series offers shielding effectiveness > 115 dB for a 100 MHz plane wave and is provided in standard 16.000 in. (406.400 mm) lengths. All are available in your choice of finishes, see page 17.

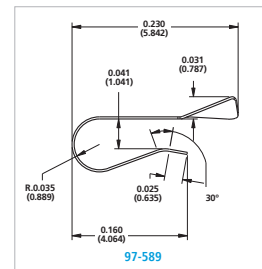
These 97-Series products are also available in UltraSoft® low compression force 98-Series.



97-572, 97-580, 97-576, 97-584



97-552, 97-563, 97-568



97-589

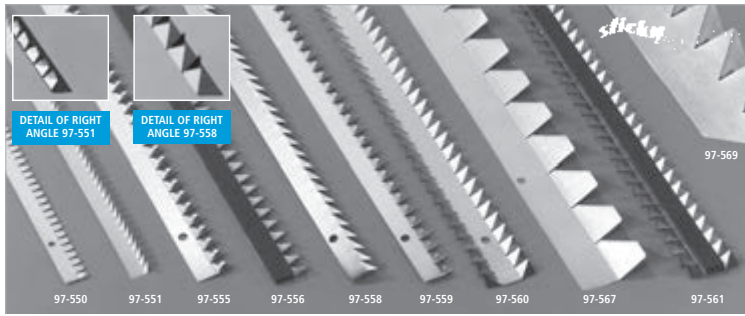
### CLIP-ON TWIST SERIES

SERIES	A	B	C	D	E	PITCH	SLOT	APPROX. LENGTH	PART NO.		
									WITH "D" LANCE	WITH PORON®	WITH "D" LANCE WITH PORON®
97-552	0.150 (3.810)	0.030 (0.762)	0.070 (1.778)	0.150 (3.810)	0.003 (0.076)	0.095 (2.413)	0.015 (0.381)	16.000 (406.400)	97-553	—	—
97-563	0.210 (5.334)	0.070 (1.778)	0.070 (1.778)	0.210 (5.334)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	16.000 (406.400)	97-564	—	—
97-568*	0.414 (10.516)	0.210 (5.334)	0.070 (1.778)	0.414 (10.516)	0.003 (0.076)	0.500 (12.700)	0.015 (0.381)	16.000 (406.400)	—	—	—
97-572	0.275 (6.985)	0.030 (0.762)	0.070 (1.778)	0.175 (4.445)	0.003 (0.076)	0.095 (2.413)	0.015 (0.381)	16.000 (406.400)	97-574	97-573	97-575
97-576	0.378 (9.601)	0.075 (1.905)	0.070 (1.778)	0.250 (6.350)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	16.000 (406.400)	97-578	97-577	97-579
97-580	0.275 (6.985)	0.030 (0.762)	0.050 (1.270)	0.175 (4.445)	0.003 (0.076)	0.095 (2.413)	0.015 (0.381)	16.000 (406.400)	97-582	97-581	97-583
97-584	0.378 (9.601)	0.075 (1.905)	0.050 (1.270)	0.250 (6.350)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	16.000 (406.400)	97-586	97-585	97-587
97-589	0.230 (5.842)	0.031 (0.787)	0.070 (1.778)	0.160 (4.064)	0.003 (0.076)	0.095 (2.413)	0.015 (0.381)	24.000 (609.000)	—	—	—
97-590	0.160 (4.064)	0.030 (0.762)	0.040 (1.016)	0.160 (4.064)	0.003 (0.076)	0.095 (2.413)	0.015 (0.381)	16.000 (406.400)	97-593	—	—

\*Standard with "D" Lance

All dimensions shown are in inches (millimeters) unless otherwise specified.

# FINGERSTOCK TWIST SERIES



Adhesive-mounted beryllium copper contact strips with scientific twist design offer narrow electronic gaskets for general shielding applications.

Different widths are available to suit your specific application for single edge contact strips. Also available are two 90 degree versions (Series 97-551 and 97-558) to provide alternate mounting capability. Series 97-555, 97-558 and 97-559 provide shielding effectiveness > 100 dB for a 100 MHz plane wave, ideal for all types of panel or electronic enclosures. Series 97-550, 97-551 and 97-560 provide shielding effectiveness > 115 dB for a 100 MHz

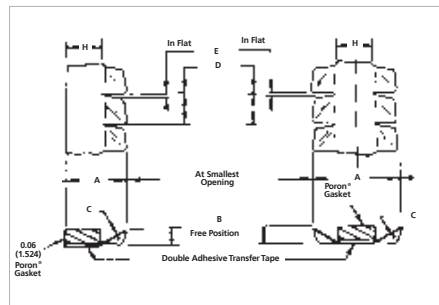
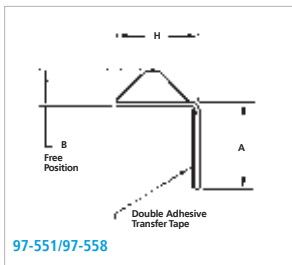
plane wave. Series 97-560 strips are especially suitable for cabinets with panel divider bars. Their unique double-edge design permits panels to be removed easily and replaced without damage to the installed strip.

All Twist Series strips are furnished in 24.000 in. (609.600 mm) lengths. Strips (except 97-551 and 97-558) are also available in standard 25.0 ft. (7.6 m) coils. Right angle product configurations are not available in coils. All are available in your choice of finishes, see page 17.

### COMBINATION ENVIRONMENTAL RUBBER GASKET

Series 97-556 and 97-561 are versions of 97-555 and 97-560, respectively, incorporating a Poron® rubber gasket to act as an environmental shield, offering a high degree of protection against dust and moisture. All are available in your choice of finishes, see page 17.

These 97-Series products are also available in UltraSoft® low compression force 98-Series.



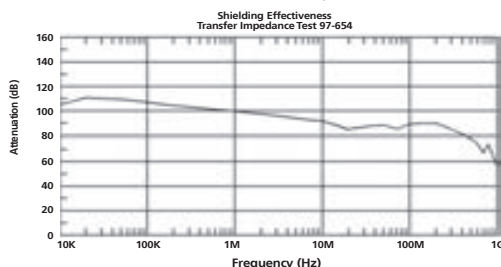
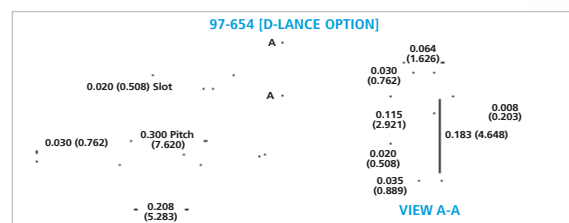
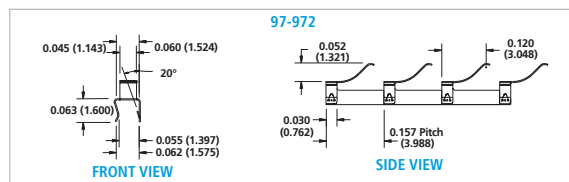
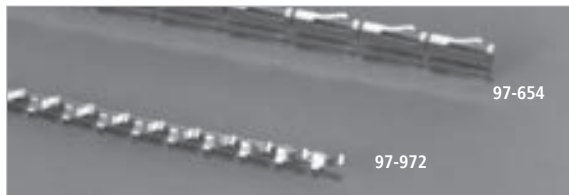
### TWIST SERIES

SERIES	A	B	C	D PITCH	E SLOT	H	APPROX. LENGTH IN. (MM)	APPROX. COIL FT. (M)	GASKET
97-550	0.230 (5.842)	0.030 (0.762)	0.003 (0.076)	0.095 (2.413)	0.015 (0.381)	0.140 (3.556)	24.000 (609.600)	25.0 (7.6)	NO
97-551	0.160 (4.064)	0.030 (0.762)	0.003 (0.076)	0.095 (2.413)	0.015 (0.381)	0.080 (2.032)	24.000 (609.600)	—	NO
97-555	0.340 (8.636)	0.070 (1.778)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	0.180 (4.572)	24.000 (609.600)	25.0 (7.6)	NO
97-556	0.340 (8.636)	0.070 (1.778)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	0.180 (4.572)	24.000 (609.600)	25.0 (7.6)	YES
97-558	0.200 (5.080)	0.070 (1.778)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	0.110 (2.794)	24.000 (609.600)	—	NO
97-559	0.300 (7.620)	0.070 (1.778)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	0.180 (4.572)	24.000 (609.600)	25.0 (7.6)	NO
97-560	0.500 (12.700)	0.070 (1.778)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	0.190 (4.826)	24.000 (609.600)	25.0 (7.6)	NO
97-561	0.500 (12.700)	0.070 (1.778)	0.003 (0.076)	0.165 (4.191)	0.015 (0.381)	0.190 (4.826)	24.000 (609.600)	25.0 (7.6)	YES
97-567	0.725 (18.415)	0.209 (5.309)	0.003 (0.076)	0.500 (12.700)	0.015 (0.381)	0.408 (10.363)	24.000 (609.600)	25.0 (7.6)	NO
97-569	0.500 (12.700)	0.120 (3.048)	0.003 (0.076)	0.250 (6.350)	0.015 (0.381)	0.250 (6.350)	24.000 (609.600)	25.0 (7.6)	NO

## DIVIDER EDGE SHIELDING

Laird offers the Divider Edge Shield, the latest addition to its line of longitudinal shielding and grounding products. The Divider Edge Shield is designed to accommodate the industry's trend toward miniaturization and reduced compression forces.

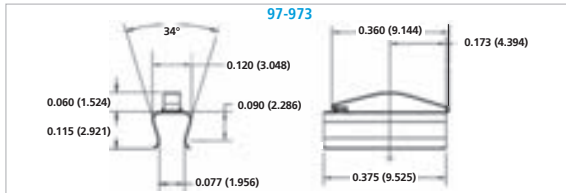
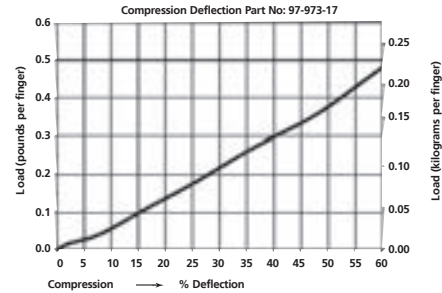
- Designed to be applied to the top edge of multi-compartmental castings with wall thickness from 0.035 in. (0.889 mm) to 0.055 in. (1.397 mm)
- Clip-on design allows for easy installation and secure retention
- Unique finger design provides extremely low compression force
- Excellent shielding and grounding properties
- Provided in standard 12.000 in. (304.800 mm) lengths, or easily cut to your desired length. Longer lengths available upon request.
- 97-654 is available with "D" Lance option



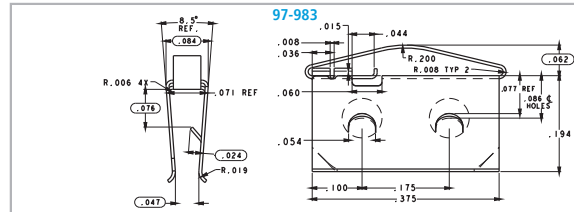
# FINGERSTOCK CARD GUIDE CLIP-ON

Laird introduces the Card Guide Clip-On, which offers excellent grounding contact from the PC board to a card guide on a rack. The unique snap-in feature of the contact finger prevents any potential snagging. This allows for bi-directional sliding contact. The Card Guide Clip-On gasket installs to the edge of the board and makes contact with ground trace on the card. The card then slides into the card guide on the rack. Low compression forces allow for easy installation of the card.

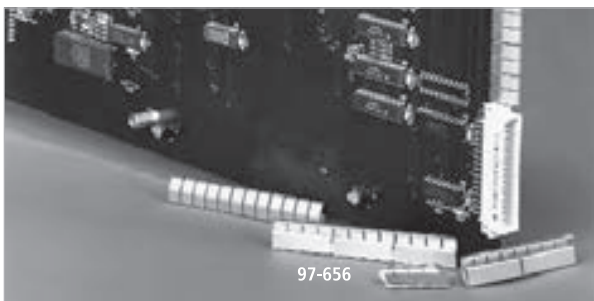
- Easily installs onto PC board
- Provides for bi-directional wiping that eliminates snagging
- Ideal, inexpensive solution for grounding applications
- High-performance beryllium copper can be plated with a wide variety of finishes for galvanic compatibility, see page 17
- Designed for board thicknesses of 0.085 in. to 0.100 in. (2.159 mm to 2.540 mm)
- Design capabilities available to handle other board thicknesses and custom applications
- 97-983 is available with "D" Lance option



All dimensions shown are in inches (millimeters) unless otherwise specified.

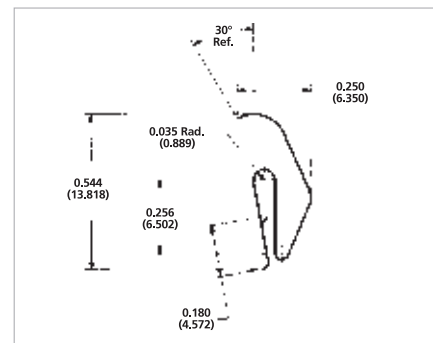
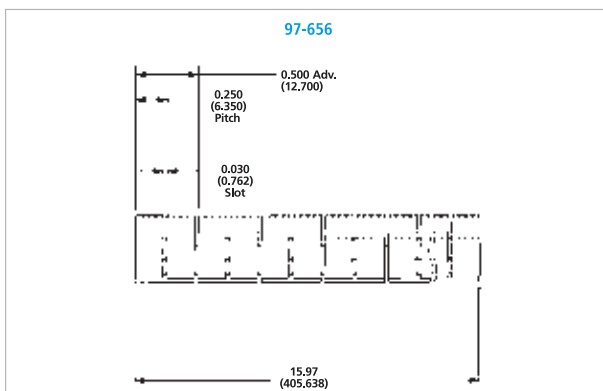


## CLIP-ON PERPENDICULAR SHIELDING



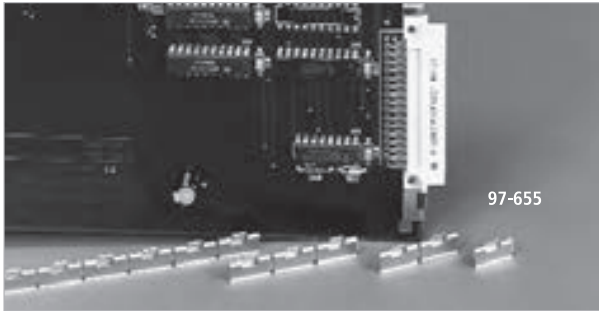
This product offers a clip-on design that permits shielding to a perpendicular surface.

- Finger design allows for continuous contact across the length of the strip
- Clip-on design is ideal where high temperature or other design considerations preclude the use of adhesive-mounted gasketing
- "D" lance design provides excellent retention of gasket and allows for a strong omnidirectional grip
- Supplied in a wide variety of plating finishes, see page 17
- Shielding effectiveness of > 80 dB for a 10 MHz plane wave.
- These 97-Series products are also available in UltraSoft® low compression force 98-Series.



# FINGERSTOCK

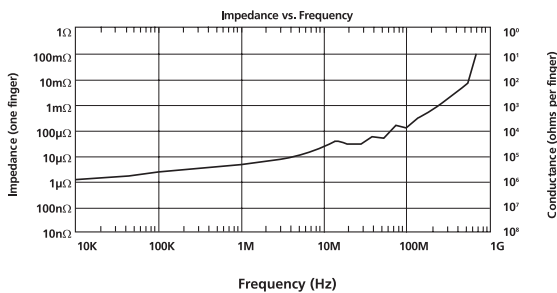
## CLIP-ON PERPENDICULAR GROUNDING STRIP



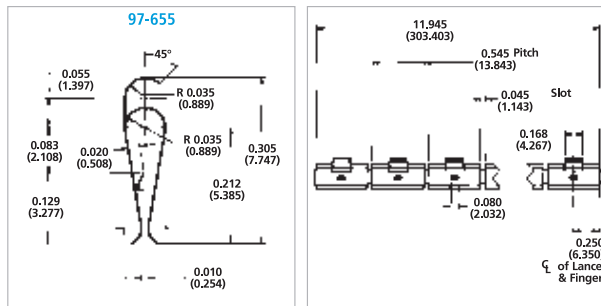
Laird offers the first clip-on design which allows grounding to occur between perpendicular surfaces.

- Unique finger extension provides grounding from card or motherboard to a backplane housing
- Finger height provides wide operating range
- Wide clip-on area with "D" lance gives additional reliable retention
- Available in strip lengths up to 12.000 in. (304.800 mm)
- Available in a wide variety of plating finishes, see page 17.

These 97-Series products are also available in UltraSoft<sup>®</sup>, 98-Series.



All dimensions shown are in inches (millimeters) unless otherwise specified.

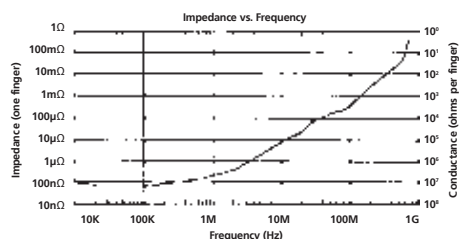
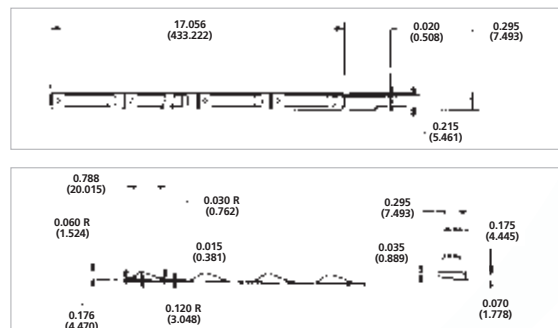


## CLIP-ON LONGITUDINAL GROUNDING STRIP

The Clip-On Longitudinal Grounding Strip combines finger compression with the direction of motion in the longitudinal axis.

- Ideal for use with rack-mounted, sliding door and slide drawer assemblies
- Clip-on mounting combines ease of installation with impressive retention strength
- Designed to function in bi-directional wiping
- Asymmetrical finger design with shallow angle provides for bi-directional engagement
- Available in a wide variety of plating finishes, see page 17
- Supplied in standard lengths of 17.000 in. (431.800 mm)

Available in UltraSoft<sup>®</sup> low compression version (98-976).



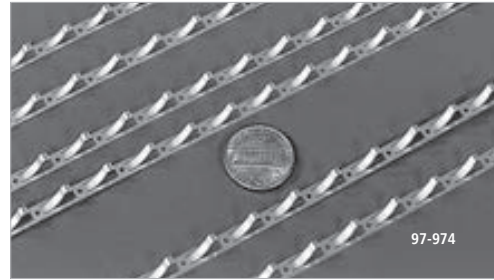


# FINGERSTOCK

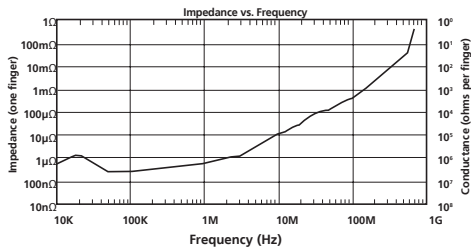
## MINI-LONGITUDINAL GROUNDING GASKET

The Mini-Longitudinal Grounding Gasket is designed to accommodate small applications which often require lower compression forces.

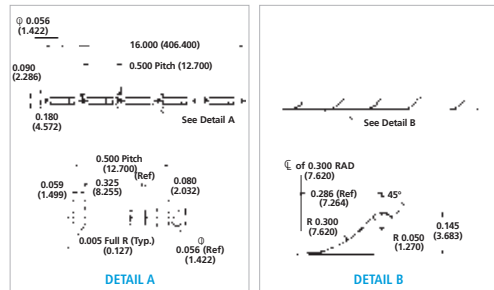
- Allows a longitudinal sliding motion over the length of the gasket
- Ideal for rack-mounted, sliding door or side panel and drawer assemblies
- Mounting methods include conductive tapes, rivets or screws
- Miniaturized design includes extremely narrow width and low standing height
- Available in a wide variety of plated finishes, see page 17



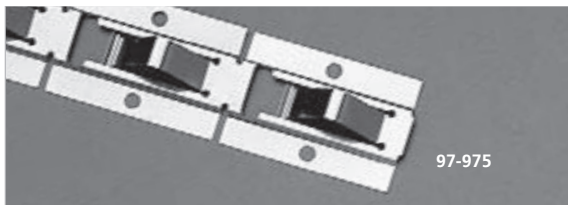
Available in UltraSoft low compression version (98-974).



All dimensions shown are in inches (millimeters) unless otherwise specified.

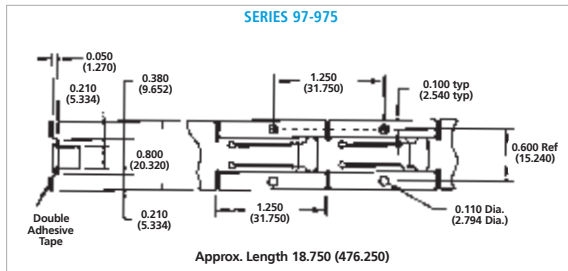


## LONGITUDINAL GROUNDING SERIES

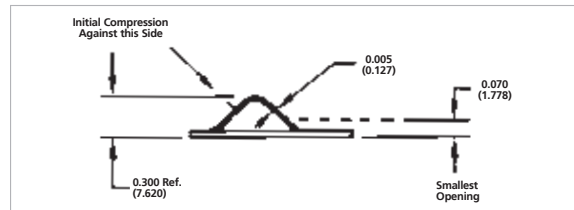


This series of beryllium copper strips combines finger compression with the direction of motion in the longitudinal axis.

- Ideal for use with rack-mounted and slide drawer assemblies
- Provides reliable and complete grounds
- Typical installation methods include hardware mounting or use of the Sticky Fingers® self-adhesive strip
- In standard finishes, see page 17



Available in UltraSoft® low compression version (98-975).



# FINGERSTOCK

## CUSTOM STAMPING

Laird's extensive product line solves hundreds of EMC problems. But each customer problem is unique. One of our standard products may not precisely meet your needs. Often a modest modification in one of our existing products will solve your problem quickly, effectively and economically.

Consider these modification possibilities:

- Special finishes
- Substitution of an alloy with differing properties
- Special lengths or coils
- Adjustment in base thicknesses
- Addition of bends, slots, holes
- Changes in width of mounting surfaces
- Removal of fingers

Let one of our application engineers show you a full range of modified standard possibilities.



## CONTACT STRIPS / CONTACT RINGS

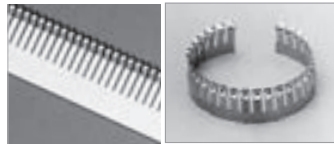
Contact strips are used for grounding and shielding in high-frequency equipment and for forming large diameter contact rings.

A wide variety of beryllium copper contact strips provides engineers and designers with flexibility in solving grounding and shielding problems. Various lengths, widths, thicknesses, contours and hole locations are possible for many of the standard catalog items.

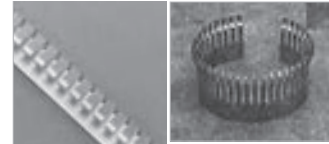
The large variety of sizes and shapes of contact rings offers engineers a wide choice in meeting design requirements for microwave cavities, tuning, shielding and grounding applications. Rings are made from strip stock formed into an unclosed circle which, when assembled, becomes a complete ring.

Please reference the Fingerstock Gaskets and Metal Grounding Catalog for a complete listing of Contact Strips and Contact Rings, including part numbers and dimensions.

FEMALE RINGS



MALE RINGS

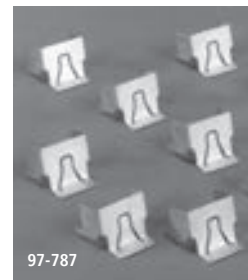


## IEEE 1394 HORIZONTAL CONNECTOR GASKET

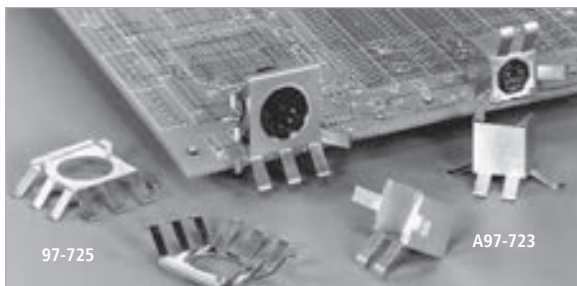
Laird offers an addition to our connector gasket line, part number 97-787, which is designed to fit all IEEE 1394 horizontal connectors. Made from copper beryllium, these gaskets provide superior grounding and reduce emissions from the connector by providing a low-impedance grounding path from the connector shell to the faceplate.

The gasket is mounted over the top of a horizontal IEEE 1394 connector and soldered to the board. Contact with both the faceplate and the connector shell is accomplished once the board is assembled into its housing. These gaskets can be provided in trays to facilitate pick-and-place assembly onto the board and wave soldering automation.

- Accommodates a wide range of connector protrusion positions
- Fits all IEEE 1394 horizontal connectors
- Gasket can be placed onto the printed circuit board via pick-and-place
- Packaging to accommodate high-speed assembly is optional
- Simple thru-pin mounting method
- Grounds the connector to the faceplate
- Available in a variety of plating finishes



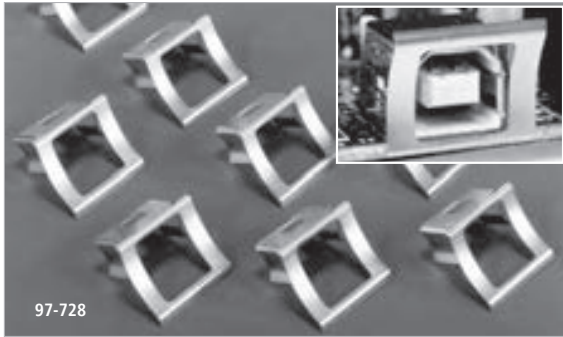
## DIN CONNECTOR SERIES



Laird's DIN Connector Gasket Series is designed to ground connector plugs to the chassis of electronic systems. Manufactured in beryllium copper, these connector gaskets provide excellent conductivity and shielding characteristics.

- Available in two sizes to accommodate a variety of DIN connector plugs
- Large compression range between board and chassis
- Wide footprint to accommodate misalignment of plug to chassis opening
- Unique slide-on design for ease of assembly
- Grounds circuit boards, as well as keyboards and audio equipment
- Available in a wide variety of plated finishes, see page 17

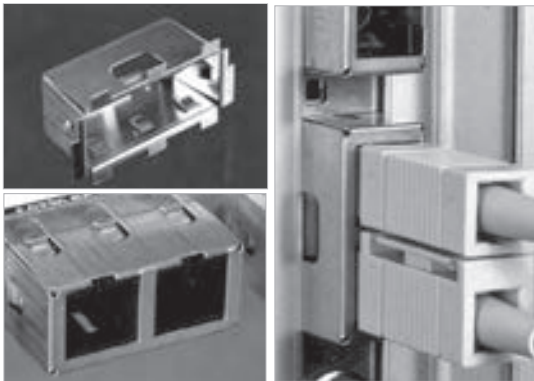
# FINGERSTOCK USB CONNECTOR



Laird offers the USB (Universal Serial Bus) Type B connector gasket. The unique design easily snaps onto the connector prior to placement on the printed circuit board and fits all Series B USB right angle connector brands. Made from high performance beryllium copper, these gaskets provide superior grounding characteristics and enhances the shielding of the connector due to the short electrical path to the ground plane provided when the gasket makes contact with the connector.

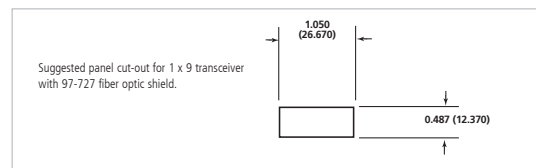
- Gasket easily snaps onto the connector for a secure fit
- Connector/gasket assembly can be placed onto the board via pick-and-place
- High clip force attaches clip to connector body for good electrical contact and secure transport prior to soldering
- Once the shielded connector assembly is soldered to the PCB, the shield is captivated between board and connector and provides reliable contact between the connector and faceplate
- Simple compact design fits within 0.625 in. X 0.625 in. (15.875 mm X 15.875 mm) windows
- Available in a variety of plated finishes

## FIBER OPTIC SHIELD

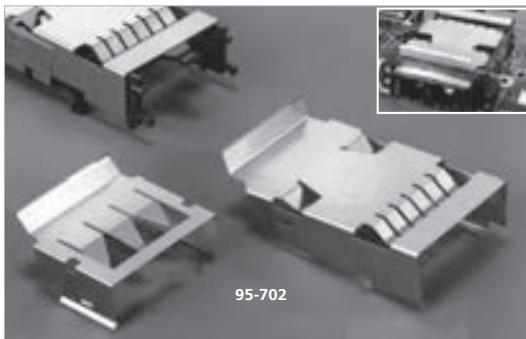


Laird provides fiber optic shielding, which provides excellent EMI shielding around the faceplate aperture which houses board mounted fiber optic transceivers. This EMI shield easily fits over the industry standard 1 x 9 style fiber optic transceiver with a duplex SC connector. The shielded transceiver is then inserted into the faceplate.

- Fits all 1 x 9 style fiber optic transceivers with duplex SC connectors
- Provides shielding around the faceplate aperture which houses board-mounted fiber optic transceivers



## GBIC FIBER OPTIC SHIELD



Laird offers the GBIC Shield for reducing emissions from GBIC (GigaBit Interface Converter) fiber optic transceivers. Fiber optic transceivers can be a troublesome source of EMI because they emit high-frequency signals and are located adjacent to large apertures in the enclosure. The GBIC Fiber Optic Shield assembly reduces the radiated emissions from the transceivers by conducting interference current away from the transceiver and onto the enclosure surface.

Simple assembly of the shield is accomplished by snapping the two shield halves onto an uninstalled guide rail assembly. The rail is then mounted onto the printed circuit board in the normal fashion.

Spring finger design on both halves of the GBIC shield provide grounding for both sides of a transceiver module. In addition, the bottom half fingers can provide a low impedance connection to the circuit board ground plane.

- Fits most Tyco (AMP) and Methode guide rails common to routers, switches and other network hardware
- Requires no extra mounting holes or solder
- Provided in stainless steel for high galvanic compatibility
- Simple snap-on assembly

### HOW TO ORDER:

To obtain the two piece assembly, order part number 95-702.

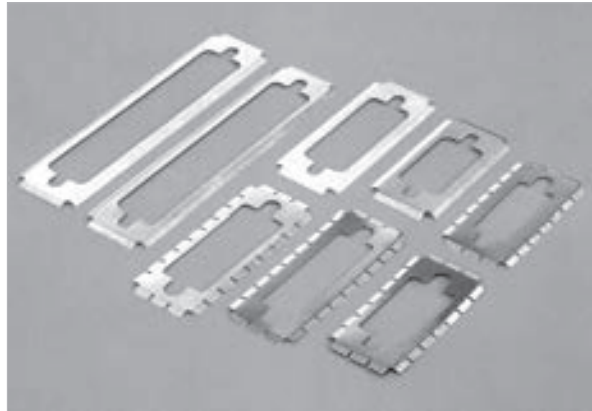
# FINGERSTOCK

## "D" CONNECTOR SHIELDING/SLOTTED "D"

### "D" CONNECTOR SHIELDING

Laird offers the "D" Connector Shield Series for grounding and shielding of D Subminiature Connectors. This series is designed to fit most commonly used 9 pin through 68 pin connectors.

- Available in stainless steel and beryllium copper, conductive elastomers, oriented wire and other materials
- Improved 20 degree angle flange design on metal connectors:
  - provides continuous contact for increased shielding effectiveness
  - fills gaps and adjusts for irregularities in the flatness of the mounting surface
- Beryllium copper parts available in UltraSoft® low force version and available in a wide variety of finishes, see page 17
- Custom shapes and designs also available
- Versatile front or rear mounting



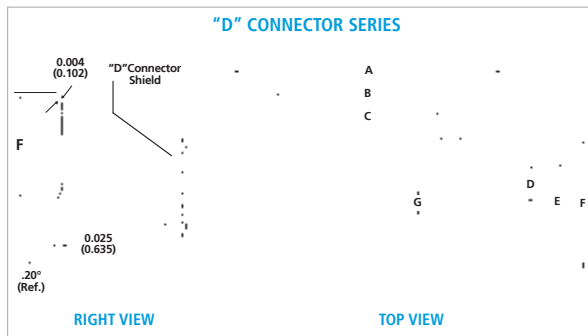
### SLOTTED "D" CONNECTOR SHIELDING

The slotted D connector gaskets provide shielding for most 9 through 50 pin connectors. The separate finger design provides maximum surface contact, provides high shielding effectiveness and low compression forces.

Slotted D connector gaskets are available from stock in copper beryllium and stainless steel. Copper beryllium parts can be plated to a variety of finishes for galvanic compatibility, see page 17.

### "D" CONNECTOR SERIES DIMENSIONS FOR BeCu AND STAINLESS STEEL

SS	BeCu	# PINS	A	B	C	D	E	F	G
97-768	97-778	9	1.410 (35.814)	0.980 (24.892)	0.780 (19.812)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.130 (3.302)
97-769	97-779	15	1.740 (44.196)	1.310 (33.274)	1.110 (28.194)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.130 (3.302)
97-770	97-780	25	2.280 (57.912)	1.850 (46.990)	1.650 (41.910)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.130 (3.302)
97-771	97-781	37	2.930 (74.422)	2.500 (63.500)	2.290 (58.166)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.130 (3.302)
97-772	97-782	50	2.840 (72.136)	2.410 (61.214)	2.110 (53.594)	0.280 (7.112)	0.550 (13.970)	0.800 (20.320)	0.240 (6.096)
97-773	97-783	68	1.800 (45.720)	1.480 (37.592)	1.260 (32.004)	0.080 (2.032)	0.160 (4.064)	0.400 (10.160)	0.090 (2.286)



### SLOTTED "D" CONNECTOR SHIELDING

SS	BeCu	# Pins	A	B	C	D	E	F	G	Pitch
95-822	97-822	9	1.412 (35.865)	0.984 (24.994)	0.784 (19.914)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.160 (4.064)	0.718 (18.240)
95-823	97-823	9	1.412 (35.865)	0.984 (24.994)	0.784 (19.914)	0.180 (4.572)	0.360 (9.144)	0.690 (17.526)	0.160 (4.064)	0.178 (4.521)
95-825	97-825	15	1.740 (44.196)	1.312 (33.325)	1.112 (28.245)	0.180 (4.572)	0.360 (9.144)	0.690 (17.526)	0.160 (4.064)	0.175 (4.445)
95-824	97-824	15	1.740 (44.196)	1.312 (33.325)	1.112 (28.245)	0.220 (5.588)	0.360 (9.144)	0.690 (17.526)	0.160 (4.064)	0.175 (4.445)
95-827	97-827	25	2.280 (57.912)	1.852 (47.041)	1.652 (41.960)	0.180 (4.572)	0.360 (9.144)	0.360 (9.144)	0.160 (4.064)	0.174 (4.420)
95-826	97-826	25	2.280 (57.912)	1.852 (47.041)	1.652 (41.960)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.160 (4.064)	0.174 (4.420)
95-828	97-828	37	2.298 (58.369)	2.500 (63.500)	2.290 (58.166)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.160 (4.064)	0.184 (4.674)

