Laird TECHNOLOGIES®

global **solutions :**
local **support**™

Recyclable Clean Copper™ (RCC)

engineered antenna, emi, telematics and thermal applications

Laird Technologies is committed to providing the world's leading OEMs with comprehensive solutions for their antenna, EMI shielding, telematics and thermal management requirements.

A world-leader, Laird Technologies has unrivaled product lines, dedication to ongoing R&D and a seamless network of manufacturing and customer support facilities located across the globe – most importantly, near its customers.

The company's philosophy of 'global solutions and local support' coupled with decades of experience and considerable capabilities means it has become a key partner for companies manufacturing in the following industries:

Aerospace

Automotive electronics

Computer

Data communications

General electronics

Medical equipment

Military

Network equipment

Telecommunications

global solutions : local support™

ABOUT RECYCLABLE CLEAN COPPER™

Recyclable Clean Copper™ (RCC) products meld strong stability and tensile strength with high levels of thermal and electrical conductivity. It is suitable to use 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.

Recyclable Clean Copper is fully compliant to EU Directive 2002/95/EC (RoHS compliant) 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.

It is characterized by superior yield strength (around 1000 MPa), and excellent elastic resilience compared to other common copper alloys.

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

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

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-

REPRESENTATIVE SURFACE FINISHES

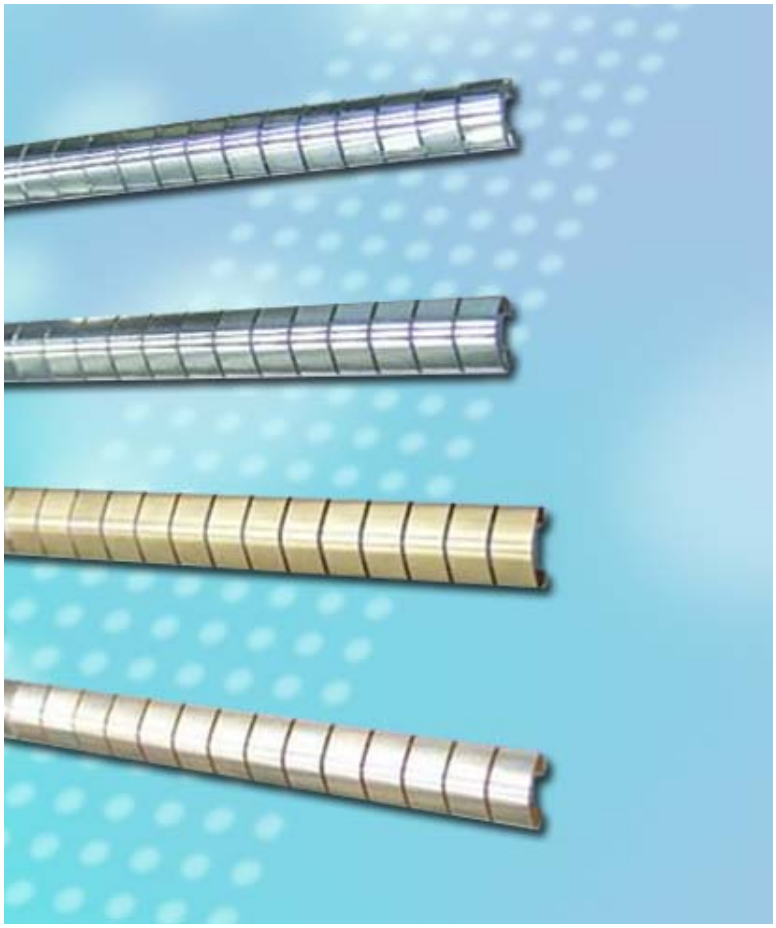
All standard Laird Technologies plating finishes are available.

TIN PLATING

NICKEL PLATING

ULTRA SOFT

HT



SLOT MOUNT SERIES

RECYCLABLE CLEAN COPPER™

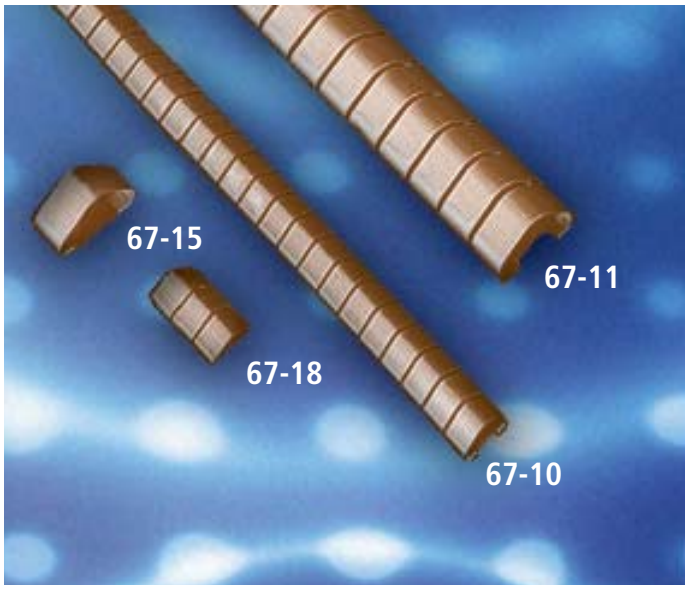
Laird Technologies Recyclable Clean Copper Slot Mount Series shielding gaskets are designed for use in a wide variety of slotted applications.

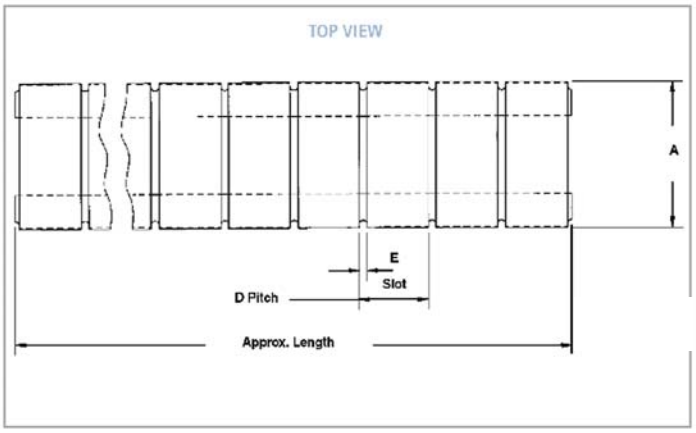
This product line is ideal both for grounding and shielding applications. Minimal slot fabrication cost; easy and cost-effective installation since fasteners and adhesives are not required; bi-directional wiping and compression action to accommodate a wide variety of designs.

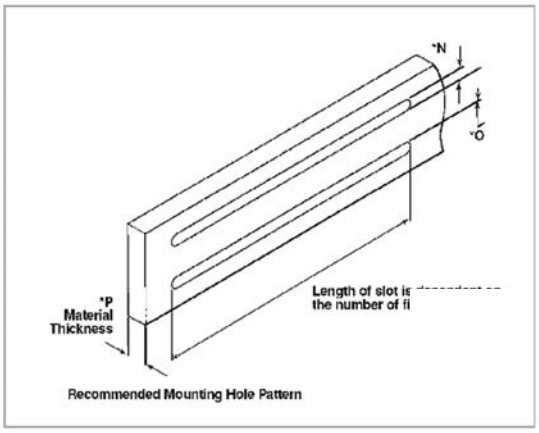
The Slot Mount Series is available in your choice of finishes. These products are also available in UltraSoft® low compression force 67-series (such as 67-19, 67-17).

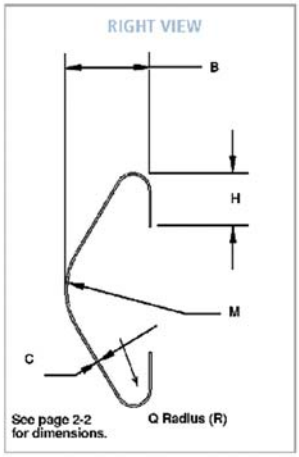
Ideal for grounding and shielding in the following electronic enclosure applications:

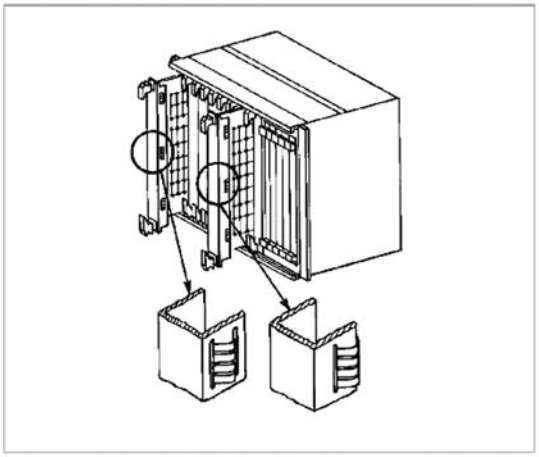
- Front panel handles
- Chassis covers
- Plug-in units
- Backplanes
- Subrack assemblies





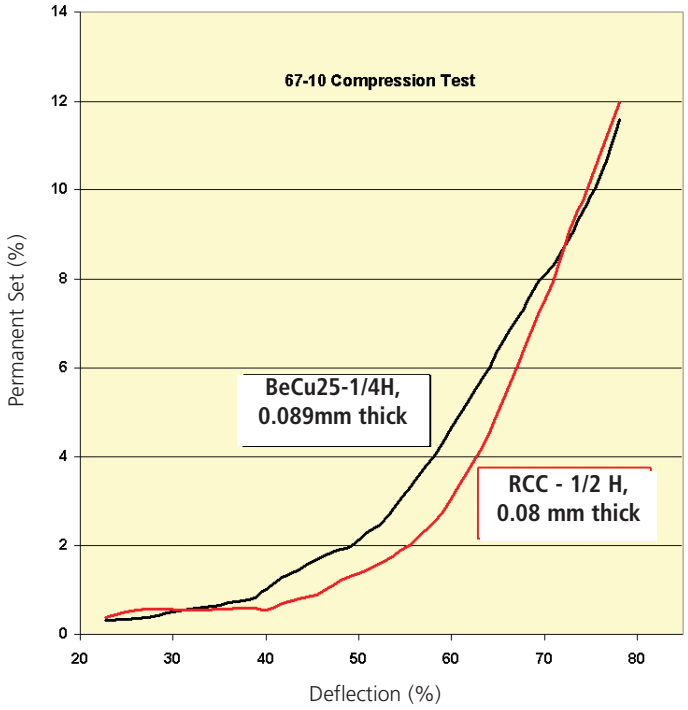






All dimensions are shown in inches (millimeters) unless otherwise specified.

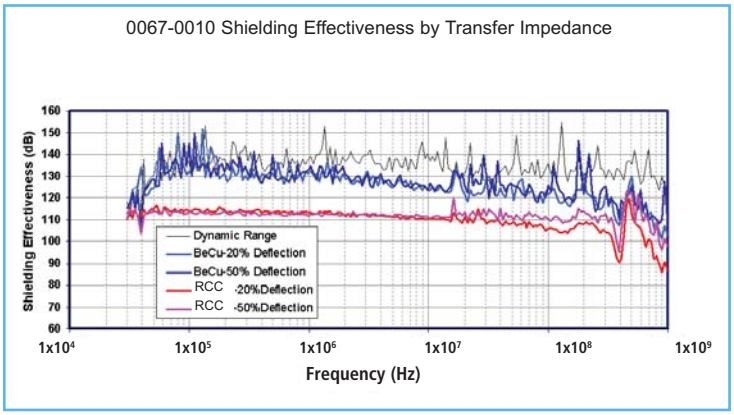
SERIES	A	B	C	D	E	H	M	*N	*O	*P	Q (R)	LENGTH APPROX.	# OF FING.
								RECOMMENDED					
67- 010	0.320	0.110	0.004	0.187	0.018	0.085	0.110	0.090	0.026	0.04	0.020	16.000	86
	(8,128)	(2,794)	(0,102)	(4,750)	(0,457)	(2,159)	(2,794)	(2,286)	(6,604)	(1,016)	(0,508)	(406,4)	----
67- 015	0.600	0.220	0.005	N/A	N/A	0.140	0.180	0.140	0.520	0.070	0.040	0.250	1
	(15,240)	(5,588)	(0,127)	----	----	(3,556)	(4,572)	(3,556)	(13,208)	(1,778)	(1,016)	(6,350)	----
67- 017	0.320	0.110	0.004	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	0.356	2
	(8,128)	(2,794)	(0,102)	(4,750)	(0,457)	(2,159)	(2,794)	(2,286)	(6,604)	(1,016)	(0,508)	(9,042)	----
67- 018	0.320	0.110	0.004	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	0.543	3
	(8,128)	(2,794)	(0,102)	(4,750)	(0,457)	(2,159)	(2,794)	(2,286)	(6,604)	(1,016)	(0,508)	(13,792)	----
67- 019	0.320	0.110	0.004	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	0.730	4
	(8,128)	(2,794)	(0,102)	(4,750)	(0,457)	(2,159)	(2,794)	(2,286)	(6,604)	(1,016)	(0,508)	(18,542)	----
67- 020	0.600	0.220	0.005	0.282	0.032	0.140	0.180	0.140	0.520	0.070	0.040	0.532	2
	(15,240)	(5,588)	(0,127)	(7,163)	(0,813)	(3,556)	(4,572)	(3,556)	(13,208)	1.778	(1,016)	(13,513)	----
67- 024	0.370	0.130	0.004	0.250	0.025	0.085	0.110	0.090	0.300	0.040	0.020	0.475	2
	(9,398)	(3,302)	(0,102)	(6,350)	(0,635)	(2,159)	(2,794)	(2,286)	(7,620)	(1,016)	(0,508)	(12,065)	----
67- 025	0.370	0.130	0.004	0.250	0.025	0.085	0.110	0.090	0.300	0.040	0.020	0.725	3
	(9,398)	(3,302)	(0,102)	(6,350)	(0,635)	(2,159)	(2,794)	(2,286)	(7,620)	(1,016)	(0,508)	(18,415)	----
67- 026	0.370	0.130	0.005	0.025	0.025	0.085	0.110	0.090	0.300	0.040	0.020	0.975	4
	(9,398)	(3,302)	(0,127)	(6,320)	(0,635)	(2,159)	(2,794)	(2,286)	(7,620)	(1,016)	(0,508)	(24,765)	----
67- 036	0.310	0.120	0.003	0.250	0.020	0.090	0.115	0.095	0.250	0.040	0.015	0.980	4
	(7,874)	(3,048)	(0,076)	(6,350)	(0,508)	(2,286)	(2,921)	(2,413)	(6,350)	(1,016)	(0,508)	(24,892)	----
67- 037	0.310	0.120	0.003	0.250	0.020	0.090	0.115	0.095	0.250	0.040	0.015	1.480	6
	(7,874)	(3,048)	(0,076)	(6,350)	(0,508)	(2,286)	(2,921)	(2,413)	(6,350)	(1,016)	(0,381)	(37,592)	----
67- 047	0.320	0.110	0.004	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.040	0.543	3
	(8,128)	(2,794)	(0,102)	(4,750)	(0,457)	(2,159)	(2,794)	(2,286)	(6,604)	(1,016)	(1,016)	(13,792)	----
67- 056	0.320	0.110	0.004	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	16.00	86
	(8,128)	(2,794)	(0,102)	(4,750)	(0,457)	(2,159)	(2,794)	(2,286)	(6,604)	(1,016)	(0,508)	(406,4)	----
67- 063	0.320	0.110	0.004	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.025	0.356	2
	(8,128)	(2,794)	(0,102)	(4,750)	(0,457)	(2,159)	(2,794)	(2,286)	(6,604)	(1,016)	(0,635)	(9,042)	----
67- 088	0.563	0.11	0.003	0.187	0.018	0.085	0.110	0.090	0.260	0.040	0.020	1.478	8
	(14,300)	(2,794)	(0,076)	(4,750)	(0,457)	(2,159)	(2,794)	(2,286)	(3,304)	(1,016)	(0,508)	(37,541)	----
67- 096	0.600	0.220	0.005	0.282	0.032	0.140	0.180	0.095	0.520	0.040	0.010	1.096	4
	(15,240)	(5,588)	(0,127)	(7,163)	(0,813)	(3,556)	(4,572)	(2,413)	(13,208)	(1,016)	(1,016)	(27,838)	--

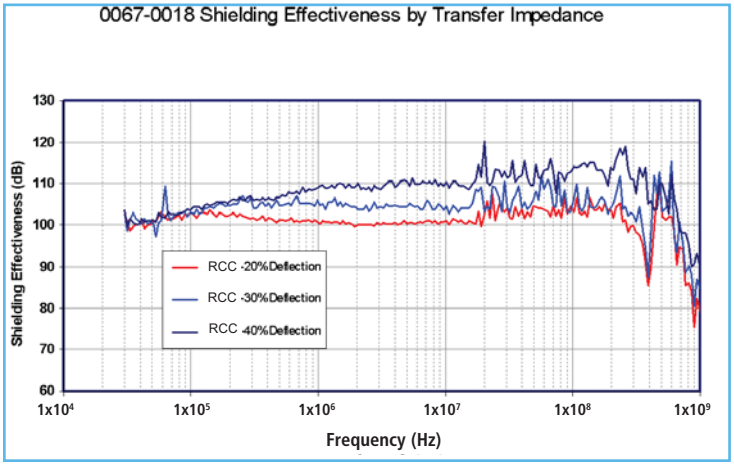


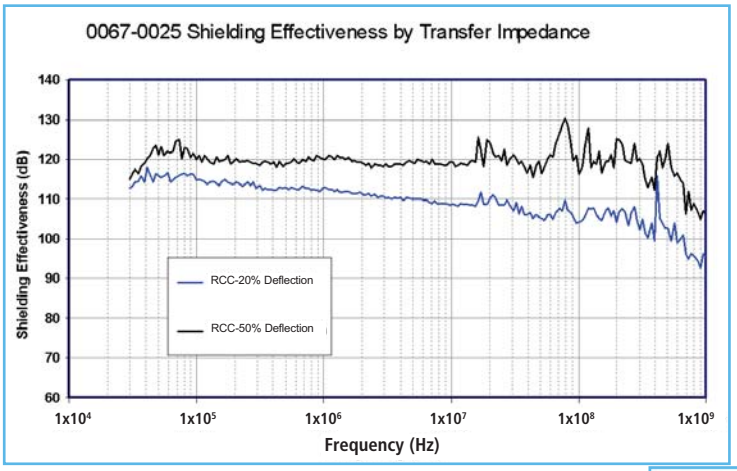
All dimensions are shown in inches (millimeters) unless otherwise specified.

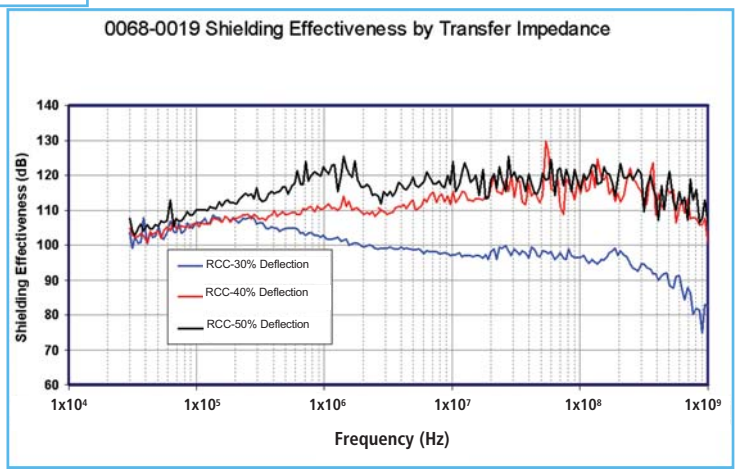
SLOT MOUNT SERIES

RECYCLABLE CLEAN COPPER™









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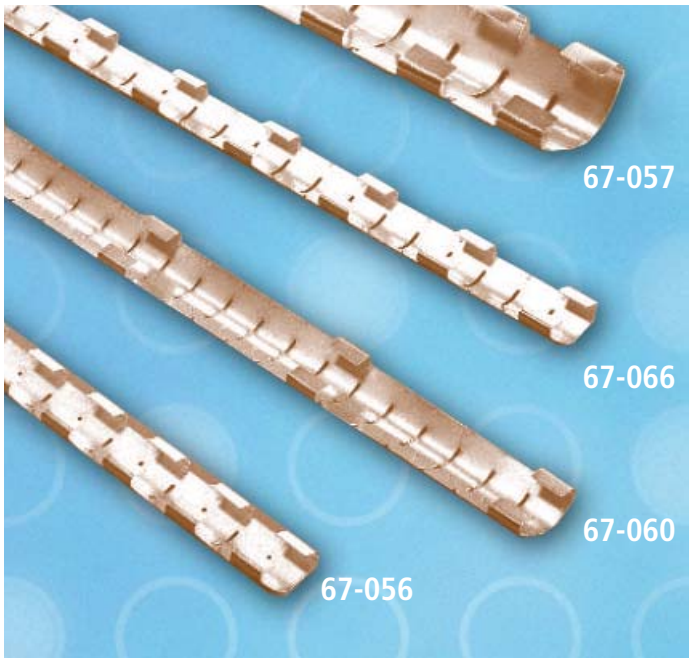
VARIABLE SLOT MOUNT

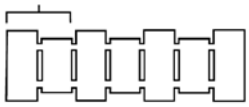
RECYCLABLE CLEAN COPPER™

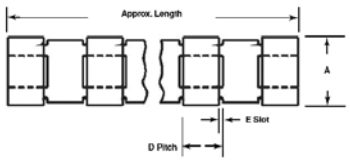
Laird Technologies introduces Variable Slot Mount shielding which eliminates the use of long slots while still utilizing the easy installation method of slot mount shielding. Fingers are removed from the strip in areas where a mounting slot is not present. The Variable Slot Mount shielding strips can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

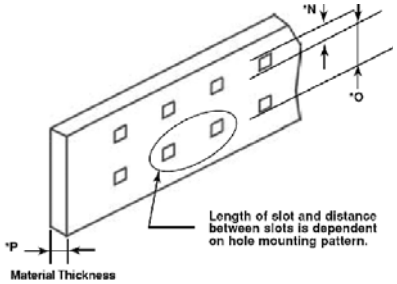
- Easy and cost-effective installation since fasteners and adhesives are not required
- Improved shielding effectiveness compared to traditional slot mount series through elimination of long slots in host material
- Slot mounting feature can be varied to accommodate different lengths and hole mounting patterns
- 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 67-Series and UltraSoft® (68-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
  - Backplanes
  - Subrack assemblies
  - Chassis covers
  - Plug-in units



Repeating Finger Pattern for 67-056 and 67-057







Variable Slot Mount Dimensions

SERIES VIEW	A	B	C	D	E	H	M	*N	*O RECOMMENDED	*P	Q (R)	LENGTH APPROX.	# OF FING.
67-056	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)	-
67-057	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)	-
67-060	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	(8,132)	(2,794)	(0,076)	(4,750)	(0,457)	(2.159)	(2,794)	(2,286)	(6,604)	(1,016)	(0,508)	(406.400)	-
67-061	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)	(0,475)	(2,159)	(2,794)	(2,286)	(6,604)	(1,016)	(0,508)	(404,400)	-
67-066	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)	-
67-090	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)	-
67-105	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)	-
67-107	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.

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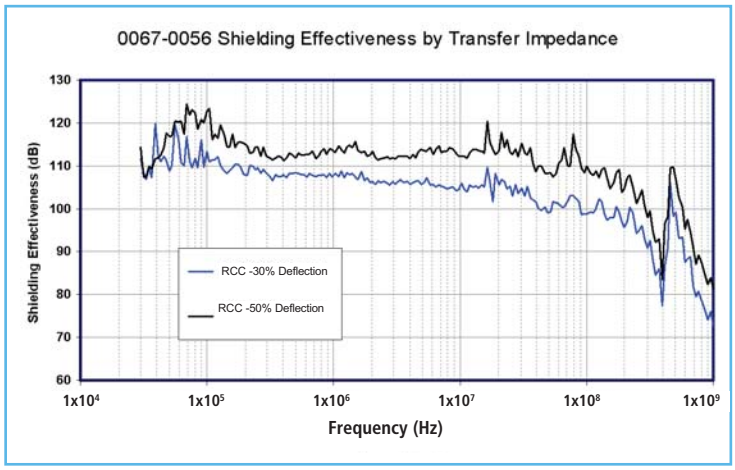
VARIABLE SLOT MOUNT

RECYCLABLE CLEAN COPPER™

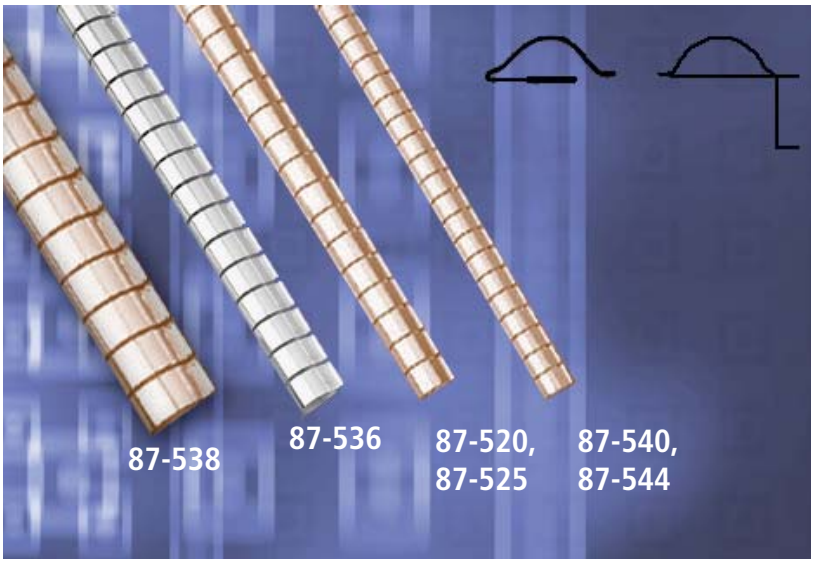


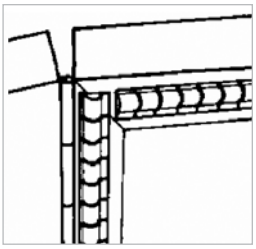
ALL-PURPOSE SERIES

RECYCLABLE CLEAN COPPER™

These versatile gaskets are made from Recyclable Clean 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.

They prove 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.

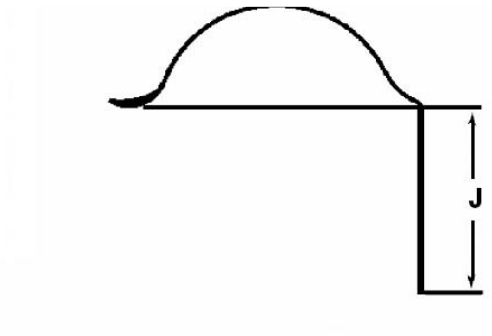


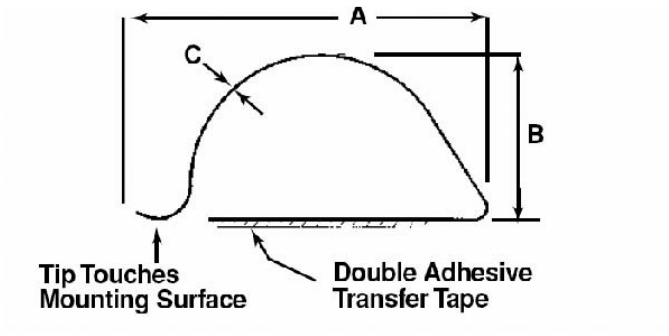


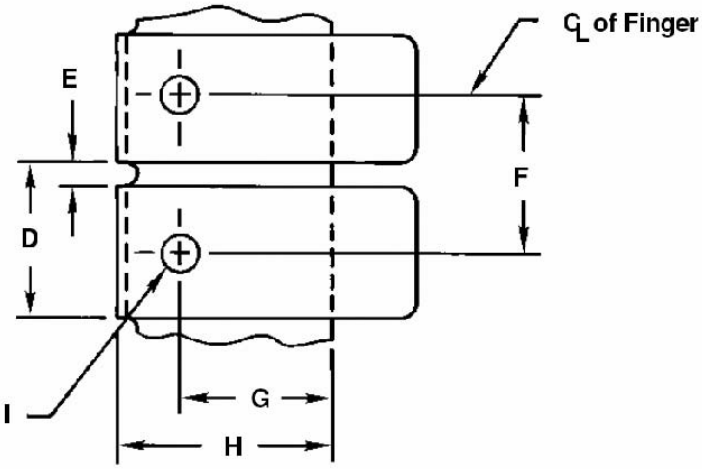
All Purpose Gasket Dimensions

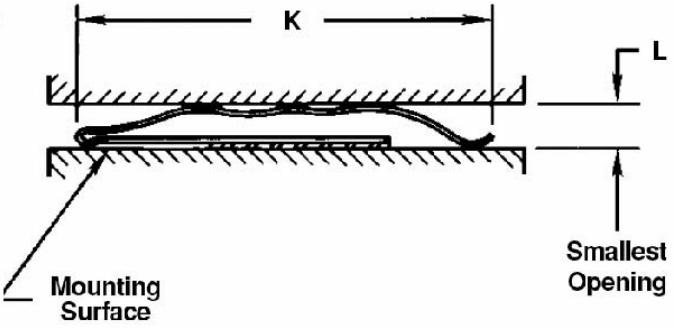
SERIES	A Min.	B	C	D	E	F	G	H	I	J	K	L	LENGTH Approx.	APPROX. Coil FT (M)
87-520	0.370	0.140	0.003	0.250	0.022	0.250	0.090	0.310	0.060	N/A	0.500	0.070	16.000	25.0
	(9,4)	(3,56)	(0,08)	(6,35)	(0,56)	(6,35)	(2,29)	(7,87)	(1,52)		(12,7)	(1,78)	(406,4)	(7,62)
87-525	0.370	0.140	0.003	0.250	0.022	0.250	0.090	N/A	0.060	0.320	0.500	0.070	16.000	25.0
	(9,4)	(3,56)	(0,08)	(6,35)	(0,56)	(6,35)	(2,29)		(1,52)	(8,13)	(12,7)	(1,78)	(406,4)	(7,62)
87-536	0.670	0.310	0.004	0.375	0.040	0.380	0.380	0.530	0.140	N/A	0.940	0.140	24.000	25.0
	(17,02)	(7,87)	(0,1)	(9,53)	(1,02)	(9,65)	(9,65)	(13,46)	(3,56)		(23,88)	(3,56)	(609,6)	(7,62)
87-538	0.780	0.250	0.005	0.375	0.040	0.380	0.380	0.530	0.140	N/A	0.940	0.080	24.000	25.0
	(19,81)	(6,35)	(0,13)	(9,53)	(1,02)	(9,65)	(9,65)	(13,46)	(3,56)		(23,88)	(2,03)	(609,6)	(7,62)
87-540	0.280	0.110	0.003	0.188	0.018	0.190	0.080	0.230	0.060	N/A	0.370	0.065	16.000	25.0
	(7,11)	(2,79)	(0,08)	(4,78)	(0,46)	(4,83)	(2,03)	(5,84)	(1,52)		(9,4)	(1,65)	(406,4)	(7,62)
87-544	0.260	0.110	0.003	0.188	0.018	0.190	0.080	N/A	0.060	0.240	0.370	0.065	16.000	25.0
	(6,6)	(2,79)	(0,08)	(4,78)	(0,46)	(4,83)	(2,03)		(1,52)	(6,1)	(9,4)	(1,65)	(406,4)	(7,62)

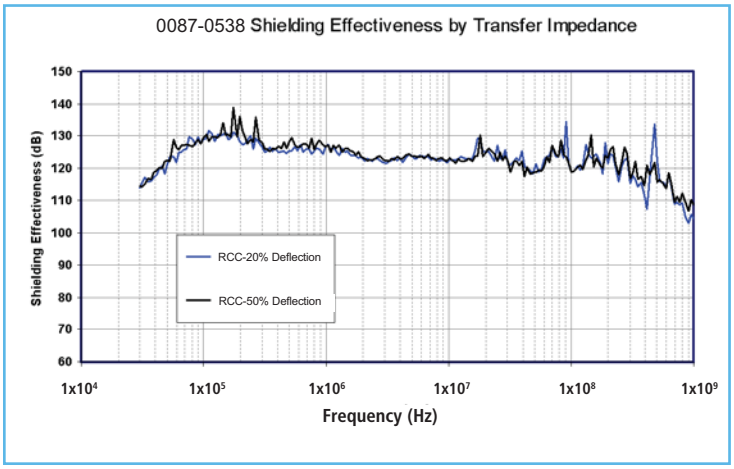
All dimensions are shown in inches (millimeters) unless otherwise specified.











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

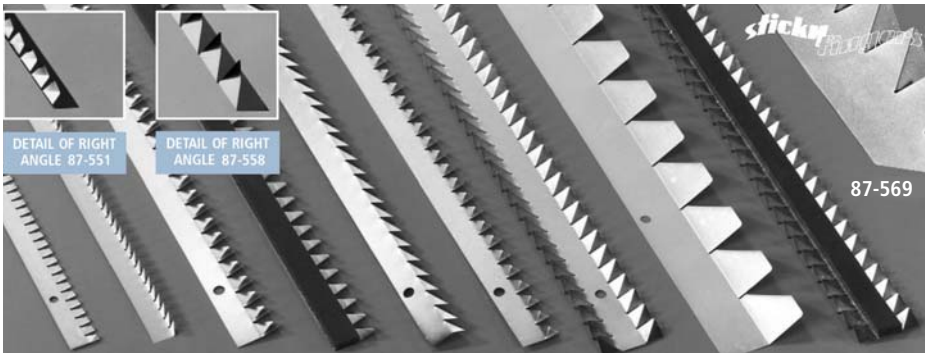
TWIST SERIES

RECYCLABLE CLEAN COPPER™

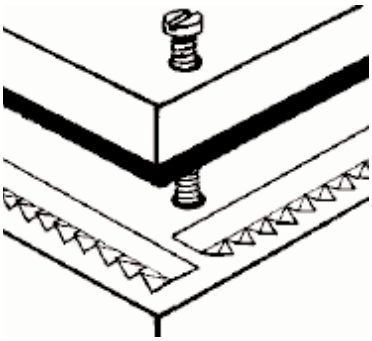
Adhesive-mounted Recyclable Clean Copper contact strips with twist design offer narrow electronic gaskets for general shielding applications.

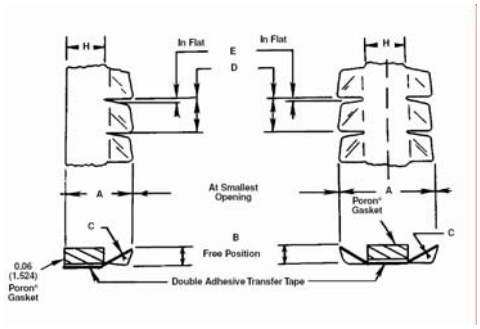
Different widths are available to suit your specific application for single edge contact strips.

All Twist Series strips are furnished in 24.00 in (609,60 mm) lengths. Strips (e.g. 0c87-0550) are also available in standard 25.0 ft. (7.6m) coils.



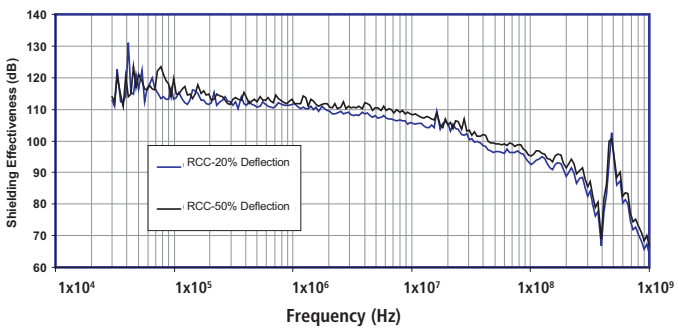
87-550 87-551 87-555 87-556 87-558 87-559 87-560 87-567 87-561



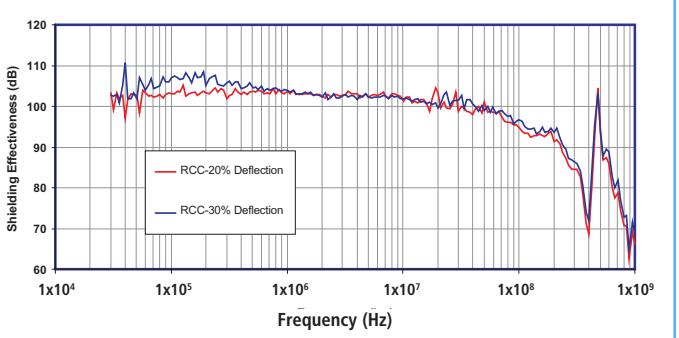


SERIES	A MIN.	B	C	D PITCH	E SLOT	H	APPROX. LENGTH IN. (MM)	APPROX. COIL FT (M)	GASKET
87- 550	0.230	0.030	0.003	0.095	0.015	0.140	24.000	25.0	NO
	(5,842)	(0,762)	(0,076)	(2,413)	(0,381)	(3,556)	(609,600)	(7,60)	
87-551	0.160	0.030	0.003	0.095	0.015	0.080	24.000	--	NO
	(4,064)	(0,762)	(0,076)	(2,413)	(0,381)	(2,032)	(609,600)	--	
87- 555	0.340	0.070	0.003	0.165	0.015	0.180	24.000	25.0	NO
	(8,636)	(1,778)	(0,076)	(4,191)	(0,381)	(4,572)	(609,600)	(7.6)	
87-556	0.340	0.070	0.003	0.165	0.015	0.180	24.000	25.0	YES
	(8,636)	(1,778)	(0,076)	(4,191)	(0,381)	(4,572)	(609,600)	(7.6)	
87-558	0.200	0.070	0.003	0.165	0.015	0.110	24.000	--	NO
	(5,080)	(1,778)	(0,076)	(4,191)	(0,381)	(2,794)	(609,600)	--	
87-559	0.300	0.070	0.003	0.165	0.015	0.180	24.000	25.0	NO
	(7,620)	(1,778)	(0,0760)	(4.191)	(0,381)	(4,572)	(609,600)	(7.6)	
87-560	0.500	0.070	0.003	0.165	0.015	0.190	24.000	25.0	NO
	(12,700)	(1,778)	(0,076)	(4,191)	(0,381)	(4,826)	(609,600)	(7.6)	
87-561	0.500	0.070	0.003	0.165	0.015	0.190	24.000	25.0	YES
	(12,700)	(1,778)	(0,076)	(4,191)	(0,381)	(4,826)	(609,600)	(7.6)	
87-557	0.725	0.209	0.003	0.500	0.015	0.408	24.000	25.0	NO
	(18,415)	(5,309)	(0,076)	(12,700)	(0,381)	(10,363)	(609,600)	(7.6)	
87-569	0.500	0.120	0.003	0.250	0.015	0.250	0.250	25.0	NO
	(12,700)	(3,048)	(0,076)	(6,350)	(0,381)	(6,350)	(6,350)	(7.6)	

0087-0555 Shielding Effectiveness by Transfer Impedance



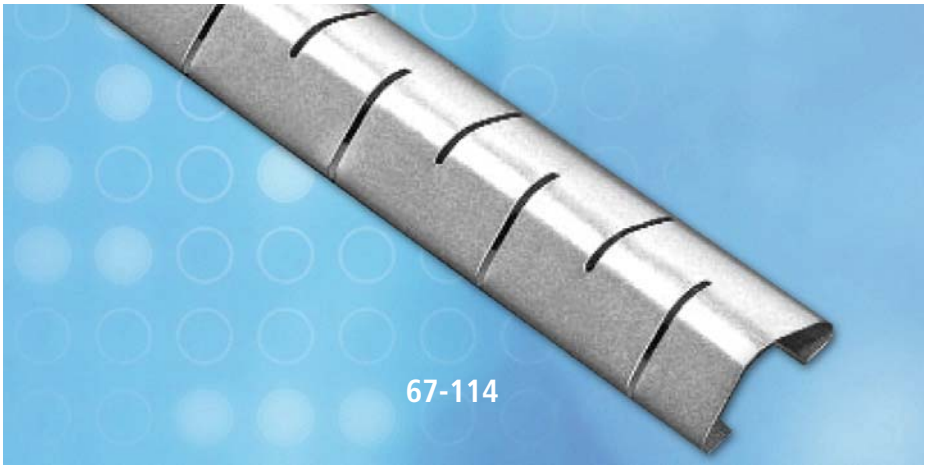
0087-0550 Shielding Effectiveness by Transfer Impedance

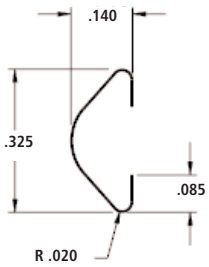


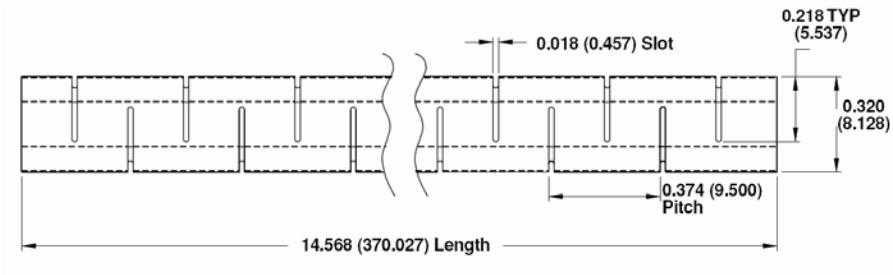
All dimensions are shown in inches (millimeters) unless otherwise specified.

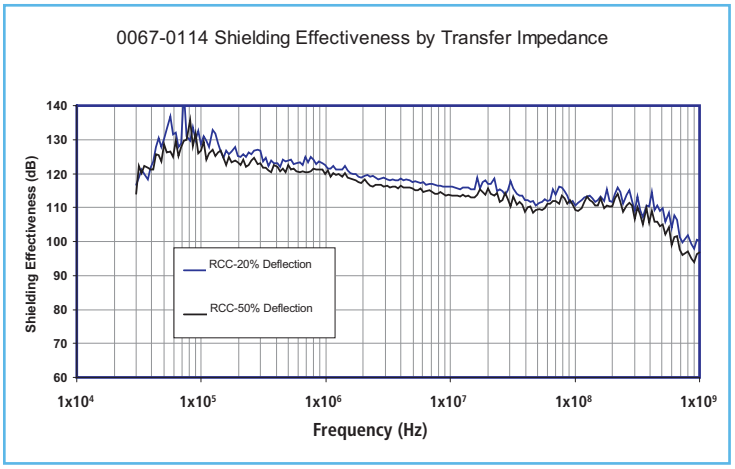
Laird Technologies alternating slot/cut design is engineered for use in a wide variety of slotted applications, such as front panel handles, plug-in units, subrack assemblies, chassis covers and backplanes.

Also available in UltraSoft® low compression force 68-Series.





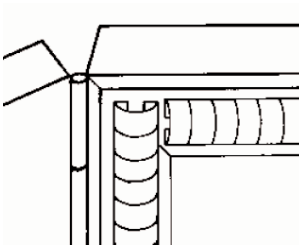




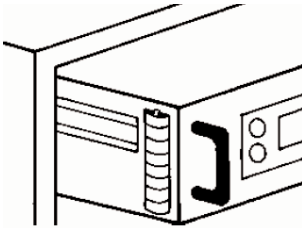
All dimensions are shown in inches (millimeters) unless otherwise specified.

SYMMETRICAL S³ SLOTTED SHIELDING

RECYCLABLE CLEAN COPPER™

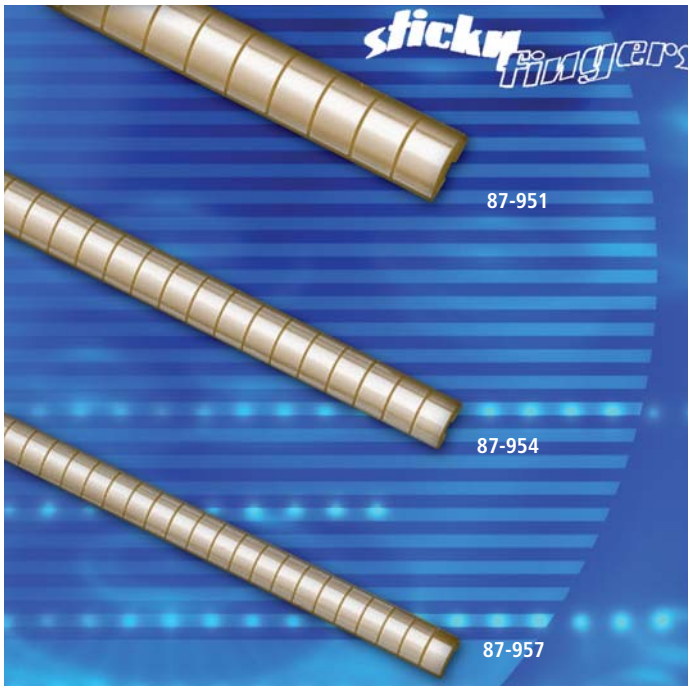


Strips with sticky fingers® are low compression, adhesive mounted Recyclable Clean Copper shielding products. Designed as a continuous band, the strip is slotted to permit spring contact throughout its length. A wide radius profile creates the greatest contact for maximum conductivity with minimum compression requirements.

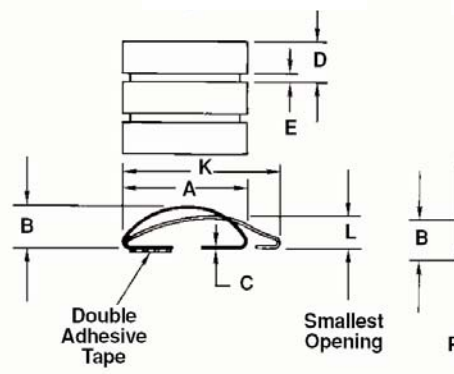


A self-adhesive tape makes mounting easy and secure.

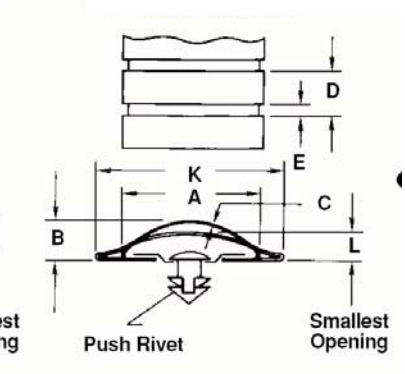
Strips with bi-directional rivet mount are as described above, but with the addition of an integral pierced brass track to provide plastic push rivet mounting in a 0.125 in (3,175 mm) diameter hole.



S³



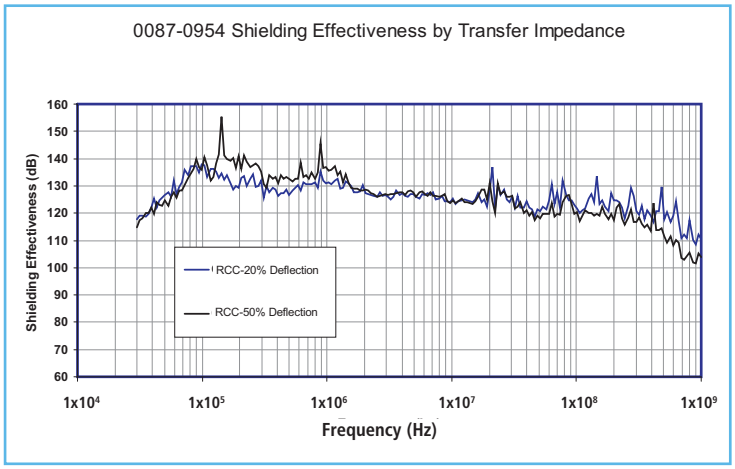
S³ RIVET MOUNT



SERIES MIN.	A	B	C	D	E	K	L	APPROX. LENGTH
87-951	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)
87-954	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)
87-957	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)

SERIES	A	B MIN.	C	D	E	K	L	APPROX. LENGTH	M	N	NO. OF RIVETS
87-952	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 —
87-955	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 —
87-958	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 —

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


0087-0954 Shielding Effectiveness by Transfer Impedance
Shielding Effectiveness (dB)
160
150
140
130
120
110
100
90
80
70
60
RCC-20% Deflection
RCC-50% Deflection
1x10⁴
1x10⁵
1x10⁶
1x10⁷
1x10⁸
1x10⁹
Frequency (Hz)

NOTES

NOTES

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