

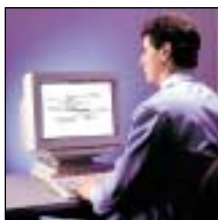


CUSTOM-ENGINEERED SHIELDING PRODUCTS

METEX has been a pioneer in EMI/RFI gasketing and shielding products for more than five decades. In fact, METEX developed the very first EMI/RFI gasket to help MIT solve a severe interference problem for the earliest high-power, high-frequency airborne radar.

That pioneering spirit is still alive today—with a complete line of military and commercial-grade EMI/RFI shielding solutions.

As communications and information technologies expand, the need to provide EMI/RFI solutions becomes more critical than ever before.



Complete support—
from technical review to
design and application
assistance



World-class EMI/RFI
manufacturing capabilities



TECHNICAL BULLETIN NUMBER 207



FABRIC OVER FOAM SHIELDING GASKETS

When your designs require EMI gaskets that exhibit high attenuation and low closure, Metex Fabric Over Foam gaskets are an ideal choice.

By combining a soft core with conductive fabrics, we have created a gasket that will provide >65 dB attenuation at 1 GHz, and compression loads under 4 lbs. per inch at 25% deflection. Low compression forces allow for lighter, less expensive enclosure designs.

Fabric Over Foam gaskets are the ideal gaskets to use with conductive coatings that can be scratched or damaged by other more abrasive gasket materials. The conductive fabrics available include abrasion-resistant copper and nickel.

Custom profiles can be easily created to give you the optimum solution to your enclosure design. The most widely used profiles are shown on page 2 through 7 in this bulletin. These profiles are available cut to length to fit your application.

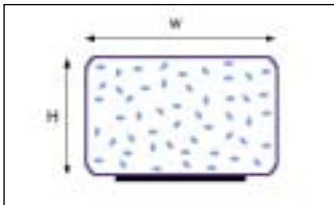
Metex Fabric Over Foam Gaskets offer:

- Excellent electrical conductivity and electromagnetic shielding effectiveness
- Good abrasion resistance
- Flame-retardant coating to comply with UL94VTM and VTM-0
- Low compressive forces
- Minimal compression set after numerous deflection cycles
- Cost savings
- ROHS Compliance



KEY FEATURES

- Conductive Fabric—UL94VTM-1 & VTM-0
- Polyurethane Foam—UL94HF-1 & V-0
- Pressure Sensitive Adhesive—UL and MIL classified (UL94 V-0 & HB; File No. E204131, 01SC03508)
- Several Profiles to Choose From
- Custom Profiles Available
- Specialty Foams Available



Rectangular Type

Conductive Fabric

- Raw Material—Polyester 100%
- Composition—Woven fabric 709-41, taffeta
- Plating—Copper and nickel
- Temperature Limit—200°C
- Excellent Electric Resistance—Less than 0.08 Ω
- Shielding Effectiveness—68db–88db from 30 Mhz to 1Ghz
- Good Abrasion Resistance—Low/high temperature
- UL Flame Class—94VTM-1 & 94VTM-0

Polyurethane Foam

Character	Density	25%ILD	Ball Rebound	Tensile Strength	Tear Resistance	Elongation	Compression Set C259
Unit	kg/m3	kg/314cm2	%	kg/cm2	kg/cm	%	%
SFHL	45±3	40min	30min	2.0min	0.4min	100min	L20
SF	32±3	14min	40min	0.9min	0.5min	200min	L20

Pressure Sensitive Adhesive (P.S.A.)

Description	Thickness	Temperature	Color	Strength of Adhesion
Adhesive Tape	0.13mm	-40°C to 204°C	Clear	80 oz.inch (87N/100mm)

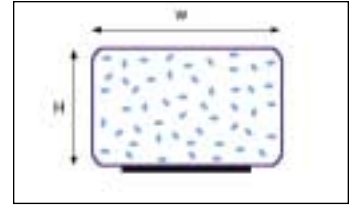
- UL NO: MH11410(N)

Rectangular Type Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM	Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1221-0070-11	.0781x.118	2	710-1221-0150-23	.157x.236	3
710-1221-0110-11	.118x.118	2	710-1221-0190-23	.197x.236	3
710-1221-0110-15	.118x.153	2	710-1221-0210-23	.216x.236	3
710-1221-0070-15	.078x.157	2	710-1221-0230-23	.236x.236	3
710-1221-0080-15	.086x.157	2	710-1221-0310-23	.314x.236	3
710-1221-0110-15	.118x.157	2	710-1221-0120-25	.126x.251	3
710-1221-0150-15	.157x.157	2	710-1221-0250-25	.251x.251	3
710-1221-0120-18	.126x.189	3	710-1221-0150-25	.157x.255	3
710-1221-0070-19	.078x.197	3	710-1221-0110-26	.118x.260	3
710-1221-0090-19	.098x.197	3	710-1221-0090-26	.098x.263	3
710-1221-0110-19	.118x.197	3	710-1221-0070-27	.078x.275	3
710-1221-0150-19	.157x.197	3	710-1221-0110-27	.118x.275	3
710-1221-0190-19	.197x.197	3	710-1221-0150-27	.157x.275	3
710-1221-0210-19	.216x.197	3	710-1221-0070-31	.078x.315	4
710-1221-0120-21	.126x.212	3	710-1221-0090-31	.098x.315	4
710-1221-0210-21	.212x.212	3	710-1221-0150-31	.157x.315	4
710-1221-0190-21	.197x.216	3	710-1221-0190-31	.197x.315	4
710-1221-0210-21	.216x.216	3	710-1221-0230-31	.236x.315	4
710-1221-0220-22	.228x.228	3	710-1221-0310-31	.315x.315	4
710-1221-0070-23	.078x.236	3	710-1221-0470-31	.472x.315	4
710-1221-0110-23	.118x.236	3	710-1221-0070-35	.078x.354	4
710-1221-0120-23	.126x.236	3	710-1221-0110-35	.118x.354	4

Rectangular Type Specifications *(continued)*

Part No.	Size (HxW) in Inches	Width (PSA) in MM	Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1221-0130-35	.137x.354	4	710-1221-0110-51	.118x.511	7
710-1221-0230-35	.236x.354	4	710-1221-0150-51	.157x.511	7
710-1221-0070-37	.078x.374	4	710-1221-0130-51	.137x.511	7
710-1221-0120-37	.126x.374	4	710-1221-0230-51	.236x.511	7
710-1221-0250-37	.251x.374	4	710-1221-0250-51	.255x.511	7
710-1221-0370-37	.374x.374	4	710-1221-0310-51	.315x.511	7
710-1221-0070-39	.078x.393	5	710-1221-0390-51	.393x.511	7
710-1221-0090-39	.098x.393	5	710-1221-0090-55	.098x.551	7
710-1221-0110-39	.118x.393	5	710-1221-0150-57	.157x.570	7
710-1221-0150-39	.157x.393	5	710-1221-0070-59	.078x.590	7
710-1221-0170-39	.177x.393	5	710-1221-0090-59	.098x.590	7
710-1221-0190-39	.196x.393	5	710-1221-0150-59	.157x.590	7
710-1221-0230-39	.236x.393	5	710-1221-0190-59	.196x.590	7
710-1221-0290-39	.295x.393	5	710-1221-0290-59	.295x.590	7
710-1221-0310-39	.315x.393	5	710-1221-0390-59	.393x.590	7
710-1221-0330-39	.335x.393	5	710-1221-0590-59	.590x.590	7
710-1221-0390-39	.393x.393	5	710-1221-0170-61	.177x.610	7
710-1221-0510-39	.511x.393	5	710-1221-0120-62	.126x.625	7
710-1221-0460-42	.460x.421	5	710-1221-0660-66	.669x.669	9
710-1221-0070-47	.078x.472	6	710-1221-0820-66	.826x.669	9
710-1221-0090-47	.098x.472	6	710-1221-0980-66	.984x.669	9
710-1221-0110-46	.118x.462	6	710-1221-0130-70	.137x.708	9
710-1221-0230-47	.236x.472	6	710-1221-0390-70	.393x.708	9
710-1221-0250-47	.255x.472	6	710-1221-0590-70	.590x.708	9
710-1221-0310-47	.315x.472	6	710-1221-0230-78	.236x.787	10
710-1221-0470-47	.472x.472	6	710-1221-0470-78	.472x.787	10
710-1221-0360-48	.362x.480	6	710-1221-0620-78	.629x.787	10
710-1221-0370-48	.370x.488	6	710-1221-0390-98	.393x.984	12
710-1221-0120-50	.126x.500	6	710-1221-0470-98	.472x.984	12
710-1221-0250-50	.251x.500	6	710-1221-0980-98	.984x.984	12
710-1221-0370-50	.375x.500	6	710-1221-0371-00	.374x1.00	12
710-1221-0500-50	.500x.500	6	710-1221-0231-29	.236x1.299	12
710-1221-0070-51	.078x.511	7			

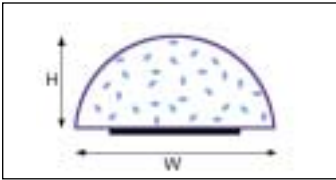


Rectangular Type

PRODUCT APPLICATIONS

- ▣ **Shielding for Containment—**
 To prevent escape of most or all of the interference generated by a particular device, circuit or system as a disturbing source
- ▣ **Shielding for Exclusion—**
 To prevent the intrusion of anticipated or known levels of interference on the performance of a specific device, circuit or system
- ▣ **Exclusion/Containment Shielding Plus Pressure Sealing—**
 To provide pressure containment as well as EMI/RFI attenuation
- ▣ **Grounding and Contacting—**
 Not to contain or exclude but to conduct electrical current such as discharging electrostatic energy from imperfectly grounded structures to ground, providing a dependable, low impedance connection between removable circuit assemblies and the host circuit ground plane and/or power busses, thus ensuring good contact between large or massive electrical structures that do not mate mechanically due to dimensional tolerance

In all of these applications, the solution is found in the use of highly resilient, high-conductive shielding materials.



D-Shape

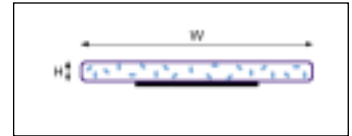
D-Shape Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM	Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1121-0090-09	.090x.090	2	710-1121-0230-37	.236x.375	5
710-1121-0120-09	.125x.090	2	710-1121-0250-37	.251x.375	5
710-1121-0120-10	.125x.102	2	710-1121-0250-38	.251x.386	5
710-1121-0070-11	.078x.118	2	710-1121-0070-39	.078x.393	5
710-1121-0110-11	.118x.118	2	710-1121-0110-39	.118x.393	5
710-1121-0130-11	.138x.118	2	710-1121-0150-39	.157x.393	5
710-1121-0050-15	.059x.150	2	710-1121-0170-39	.177x.393	5
710-1121-0110-15	.118x.150	2	710-1121-0190-39	.196x.393	5
710-1121-0150-15	.157x.157	2	710-1121-0210-39	.216x.393	5
710-1121-0070-19	.078x.196	3	710-1121-0230-39	.236x.393	5
710-1121-0190-19	.196x.196	3	710-1121-0270-39	.275x.393	5
710-1121-0070-23	.078x.236	3	710-1121-0290-39	.295x.393	5
710-1121-0170-23	.177x.236	3	710-1121-0390-39	.393x.393	5
710-1121-0190-23	.196x.236	3	710-1121-0470-39	.472x.393	5
710-1121-0210-23	.216x.236	3	710-1121-0130-43	.138x.433	5
710-1121-0130-25	.134x.255	3	710-1121-0170-43	.177x.433	5
710-1121-0190-25	.255x.196	3	710-1121-0210-43	.216x.433	5
710-1121-0230-25	.255x.236	3	710-1121-0030-47	.035x.472	6
710-1121-0190-27	.276x.196	3	710-1121-0370-50	.374x.500	7
710-1121-0180-29	.299x.189	4	710-1121-0470-68	.472x.688	9
710-1121-0390-31	.315x.393	4	710-1121-0550-70	.551x.708	9
710-1121-0110-35	.354x.118	5	710-1121-0780-70	.787x.708	9
710-1121-0120-35	.354x.125	5	710-1121-0900-70	.905x.708	9
710-1121-0120-37	.375x.125	5			

Flat Type Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1221-0040-07	.047x.078	2
710-1221-0040-11	.040x.118	2
710-1221-0030-15	.031x.157	2
710-1221-0030-15	.035x.157	2
710-1221-0040-15	.040x.157	2
710-1221-0050-15	.047x.157	2
710-1221-0020-19	.020x.196	3
710-1221-0040-19	.040x.196	3
710-1221-0050-19	.047x.196	3
710-1221-0060-19	.060x.196	3
710-1221-0070-19	.070x.196	3
710-1221-0040-23	.040x.236	3
710-1221-0060-23	.060x.236	3
710-1221-0020-27	.020x.275	4
710-1221-0040-27	.040x.275	4
710-1221-0050-27	.047x.275	4
710-1221-0060-27	.060x.275	4

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1221-0070-27	.070x.275	4
710-1221-0060-30	.062x.300	4
710-1221-0030-31	.031x.314	4
710-1221-0040-31	.040x.314	4
710-1221-0040-35	.040x.354	4
710-1221-0020-39	.020x.393	5
710-1221-0040-39	.040x.393	5
710-1221-0050-39	.047x.393	5
710-1221-0070-39	.070x.393	5
710-1221-0040-47	.040x.472	6
710-1221-0050-47	.059x.472	6
710-1221-0020-51	.027x.511	6
710-1221-0030-51	.035x.511	6
710-1221-0040-51	.040x.511	6
710-1221-0060-51	.060x.511	6
710-1221-0060-55	.060x.551	7
710-1221-0040-59	.047x.590	7

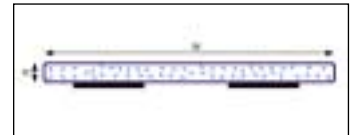


Flat Type

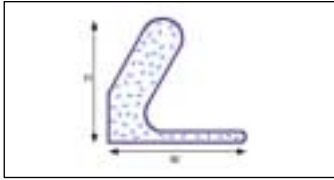
Special Type Wide Profile (I.O. Gasket) Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1221-0070-70	.078x.708	3 x 2
710-1221-0090-75	.090x.751	3 x 2
710-1221-0080-78	.080x.787	3 x 2
710-1221-0040-82	.040x.826	3 x 2
710-1221-0070-82	.078x.826	3 x 2
710-1221-0090-82	.098x.826	3 x 2
710-1221-0150-82	.157x.826	3 x 2
710-1221-0230-82	.236x.826	3 x 2
710-1221-0070-91	.070x.913	3 x 2
710-1221-0041-06	.040x1.062	3 x 2
710-1221-0081-06	.080x1.062	3 x 2
710-1221-0031-18	.031x1.181	3 x 2

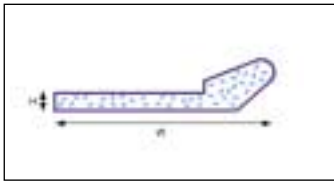
Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1221-0111-18	.118x1.181	3 x 2
710-1221-0171-27	.177x1.279	3 x 2
710-1221-0081-49	.080x1.496	3 x 2
710-1221-0091-51	.098x1.516	3 x 2
710-1221-0081-57	.080x1.575	3 x 2
710-1221-0121-57	.125x1.575	3 x 2
710-1221-0091-69	.098x1.693	3 x 2
710-1221-0081-77	.080x1.770	3 x 2
710-1221-0092-00	.098x2.000	3 x 2
710-1221-0042-16	.047x2.165	3 x 2
710-1221-0092-16	.098x2.165	3 x 2
710-1221-0082-36	.080x2.362	3 x 2



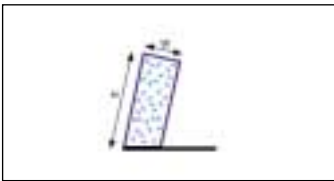
Special Type Wide Profile (I.O. Gasket)



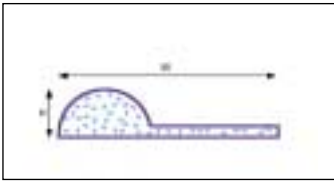
C-Fold Profile



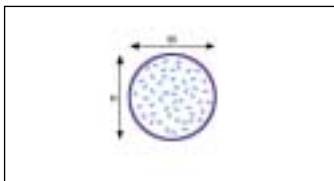
Knife Edge Type



L-Shape



P-Type



Round Type

C-Fold Profile Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1321-0250-23	.252x.232	3
710-1321-0130-29	.137x.295	4
710-1321-0310-31	.315x.315	4
710-1321-0390-31	.393x.315	4

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1321-0390-39	.393x.393	5
710-1321-0380-42	.385x.421	5
710-1321-0590-68	.590x.681	6

Knife Edge Type Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1421-0130-49	.137x.492	6
710-1421-0090-50	.094x.500	6

Part No.	Size (HxW) in Inches	Width (PSA) in MM
0100-50710-1421-	.094x.500	6
0250-75710-1421-	.252x.751	10

L-Shape Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1021-0430-43	.433x.433	6 (W/PET)
710-1021-0590-55	.590x.551	7 (W/O PET)

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1020-0031-37	.309x1.387	—

P-Type Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1521-0070-31	.078x.314	4
710-1521-0130-52	.130x.520	6

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1521-0170-63	.177x.630	8

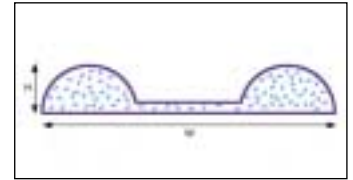
Round Type Specifications

Part No.	Size (Diameter) in Inches
710-1020-0090-00	.098
710-1020-0120-00	.126

Part No.	Size (Diameter) in Inches
710-1020-0430-00	11.0

DD-Shape Specifications

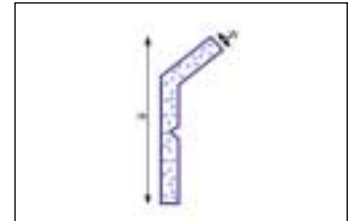
Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1021-0120-37	.126x.378	5



DD-Shape (Double DD-Shape)

FL-Profile Specifications

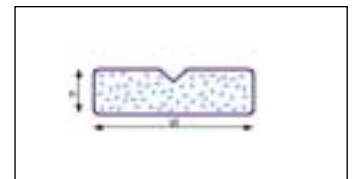
Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1021-0310-70	.311x.709	9



FL-Profile (Folding Leaf)

U-Shape Specifications

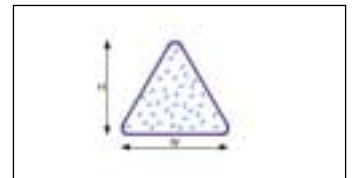
Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1021-0190-78	.197x.787	3 (side)
710-1021-0231-10	.236x1.102	3 (side)



U-Shape

T-Shape Specifications

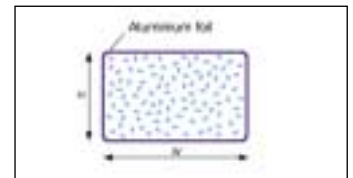
Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1021-0150-15	.157x.157	2



T-Shape (Triangle)

Aluminum Foamed Gasket Specifications

Part No.	Size (HxW) in Inches	Width (PSA) in MM
710-1200-9390-39	.393x.393	—
710-1200-9390-78	.393x.787	—
710-1200-9391-18	.393x1.181	—



Aluminum Foamed Gasket



Metex Electronic Shielding Products

The diversity and versatility of our product line enables Metex to offer a wide range of custom solutions to optimize shielding effectiveness. We provide both off-the-shelf and custom designs in commercial and military-grade materials to ensure EMC integrity and quality. From prototype to volume production, our product line includes:

- Knitted Wire Mesh
- Vent Panels/Mesh Screens
- Spring Fingers
- Conductive Fabric
- Oriented Wire
- Braided Sleeving
- Shielded Windows, Instrumentation and Rooms
- Conductive Silicone Adhesive
- Shielding Tape/Foil Laminates
- Fabric Over Foam Gaskets
- Connector Gaskets
- Braided Rope
- Wire Mesh Gaskets

Our **Fabric Over Foam Shielding Gaskets** continue a long-standing Metex tradition of integrating the right designs, materials and production methods to meet customer needs for optimal performance at the lowest possible cost.



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