

COMPANY PROFILE

TEMAS engineering is a small Company which developed the “Know How” in manufacturing industrial components since 1976, when the first family Company started working out various specializations in the automotive field, developing products in stainless steel and other technological materials.

Since 2001 **TEMAS engineering** is producing EMI/RFI gaskets, EMC solutions and has gained a deep expertise in shielding techniques for industrial, medical and military electronics equipment.

TEMAS engineering product lines consist of a wide range of EMI/RFI shielding gaskets, wire mesh, air ventilation/filtration shielding panels, high temperature gaskets, demisters, foils, optical filters, environmental gaskets and thermal management solutions.

All these articles can reduce the electromagnetic noise usually associated with electronic devices and are installed inside or outside their enclosures or cabinets. The dimension of these enclosures may be as small as a pace-maker, or as large as a shelter for telecommunications.

Manufacturing capabilities of **TEMAS engineering** start from short to medium/long running production, including quick prototyping, customizing and shielding needs characterization.

A standard application field is within the electronics industry, like telecommunications, aerospace, information technology, HF tooling equipment, medical devices and military applications.

For advice on application and designing for EMC (Electro-Magnetic Compatibility) please contact us at one of the addresses shown at the bottom of each page of this catalogue.

FABRIC OVER FOAM GASKETS



UL94-V0

- CONDUCTIVE FABRIC WRAPPED OVER FOAM OR SPONGE CORE: EASY TO APPLY AND TO INSTALL
- SUITABLE FOR USE ON METAL ENCLOSURES OR METALLIZED PLASTICS (LOW COMPRESSION FORCE)
- OVER 100dB AVERAGE SHIELDING EFFICIENCY IN THE RANGE 100MHz-10GHz
- RIP-STOP FABRICS THAT ALLOW SELF-TERMINATING CUT ENDS ON GASKETS
- AVAILABLE ON REELS, CUT-TO-LENGTH or PREFORMED READY TO INSTALL GASKET
- PRESSURE SENSITIVE ADHESIVE (standard)
- Range of cores:

URETHANE FOAM (standard)	(PU)
Low density urethane FOAM	(LF)
NEOPRENE sponge	(NS)
EPDM sponge	(ES)
- And fabric materials:

NICKEL COPPER + CARBON	(SI)
NICKEL COPPER	(NC)

Description

Fabric over foam gaskets are made of a soft foam core, bonded over with conductive fabric. More than 70 different profiles and continuous updates offer unlimited selection for any application. Metallized conductive fabric bonded to resilient core (available in urethane foam, neoprene sponge, epdm sponge) offers a good shielding efficiency and works as a seal to block air, light and dust. All profiles are available with UL94-V0 grade.

Mechanical tolerances:		
<1,5 mm	+0,3	-0,3 mm
1,5-5 mm	+0,5	-0,5 mm
>5 mm	+0,8	-0,8 mm

Complete the P/N with:

2-letters CORE SUFFIX;
2-letters FABRIC SUFFIX;
/length for cut-to-length pieces;
-V0 suffix for UL94-V0 products.

i.e. **FS.064. PU.SI**

square section, 6.4x6.4mm, Ni/Cu+C black fabric over Urethane foam, adhesive

FD.015.038. PU.NC/2000

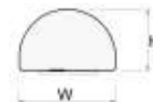
D-shape, 1.5X3.8mm, Ni/Cu fabric over Urethane foam, length 2000mm

FR.032.064. PU.NC-V0

rectangular section, 3.2x6.4mm, Ni/Cu fabric over Urethane foam, UL94-V0

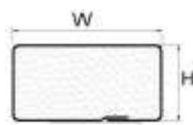
SQUARE

D-SHAPE

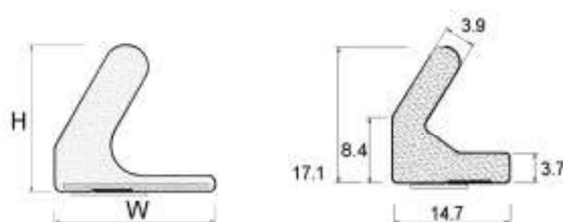


P/N	H/W [mm]
FS.030	3.0
FS.050	5.0
FS.060	6.0
FS.064	6.4
FS.095	9.5
FS.100	10.0
FS.127	12.7
FS.150	15.0
FS.170	17.0
FS.200	20.0

P/N	Height [mm]	Width [mm]
FD.015.038	1.5	3.8
FD.023.023	2.3	2.3
FD.025.064	2.5	6.4
FD.030.038	3.0	3.8
FD.030.090	3.0	9.0
FD.036.064	3.6	6.4
FD.036.095	3.6	9.5
FD.048.076	4.8	7.6
FD.064.095	6.4	9.5
FD.095.127	9.5	12.7

**RECTANGULAR**

P/N	Height [mm]	Width [mm]
FR.005.050	0.5	5.0
FR.005.070	0.5	7.0
FR.005.100	0.5	10.0
FR.010.030	1.0	3.0
FR.010.040	1.0	4.0
FR.010.050	1.0	5.0
FR.010.070	1.0	7.0
FR.010.100	1.0	10.0
FR.010.127	1.0	12.7
FR.015.622	1.5	62.2
FR.020.030	2.0	3.0
FR.020.040	2.0	4.0
FR.020.050	2.0	5.0
FR.020.070	2.0	7.0
FR.020.100	2.0	10.0
FR.020.127	2.0	12.7
FR.020.170	2.0	17.0
FR.020.210	2.0	21.0
FR.020.300	2.0	30.0
FR.025.150	2.5	15.0
FR.030.040	3.0	4.0
FR.030.090	3.0	9.0
FR.032.048	3.2	4.8
FR.032.064	3.2	6.4
FR.032.095	3.2	9.5
FR.032.127	3.2	12.7
FR.040.200	4.0	20.0
FR.050.080	5.0	8.0
FR.050.100	5.0	10.0
FR.050.413	5.0	41.3
FR.060.080	6.0	8.0
FR.064.095	6.4	9.5
FR.064.127	6.4	12.7
FR.075.150	7.5	15.0
FR.080.127	8.0	12.7
FR.095.127	9.5	12.7
FR.100.254	10.0	25.4
FR.115.105	11.5	10.5
FR.159.254	15.9	25.4
FR.170.100	17.0	10.0

**ANGLE-FOLD**

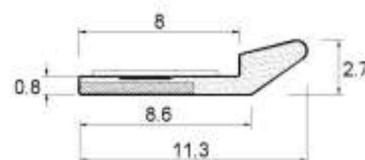
P/N	Height [mm]	Width [mm]
FV.100.110	10.0	11.0
FV.170.150	17.0	15.0

Round

P/N : FO.025.NS (Ø 2,5mm)

P/N : FO.030.NS (Ø 3,0mm)

P/N : FO.050.NS (Ø 5,0mm)

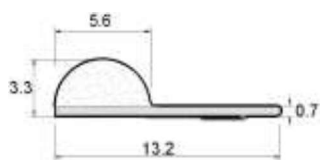
P/N : FO.060.NS (Ø 6,0mm)
(neoprene sponge only)**Knife-edge**

P/N : FK.027.113

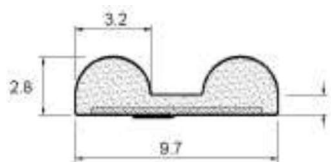
J-profile

P/N : FJ.053.033

SPECIAL PROFILES



P/N : FP.033.132

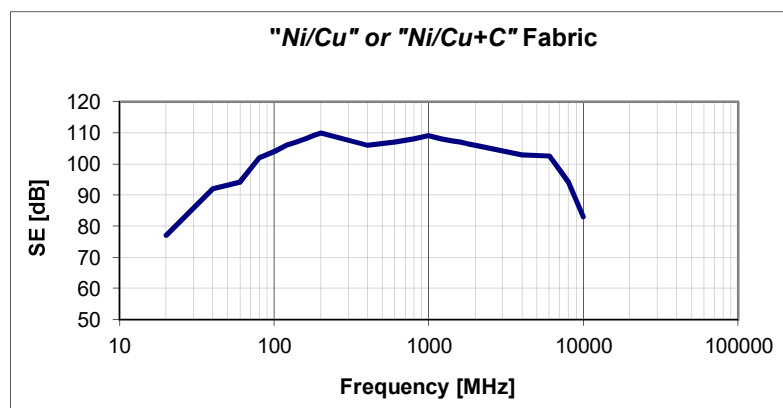


P/N : FB.028.097

OTHER SIZE, CONFIGURATIONS OR READY-TO-MOUNT FINISHED GASKETS
(according to your drawing) AVAILABLE UPON REQUEST

Shielding performances in according to MIL-G-83528

Tested on 10.5x10.5 standard profile. Gasket compressed 50%.



ALL METAL GASKETS



Description

Layers of *metal wire mesh* are formed into four standard cross-sectional profiles (round, rectangular, round with fin and double round with fin) and into a range of sizes to suite a large number of applications. Available in many wire types like monel, tinned copper-clad steel, stainless steel, beryllium copper, tinned copper, aluminium.

All *metal gaskets* offer excellent EMI shielding performance, providing electrical continuity when compressed between two mating surfaces.

- NO TEMPERATURE LIMITS
- CONTINUOUS OR CUT-TO-LENGTH GASKETS
- PRESSURE SENSITIVE ADHESIVE (as an option)
- Available materials:

MONEL	(MO)
TINNED COPPER CLAD STEEL	(TC)
STAINLESS STEEL	(SL)
BERYLLIUM COPPER	(BC)
TINNED COPPER	(TR)
ALUMINIUM	(AL)

Mechanical tolerances:

1,5-5 mm	+0,4 -0,0 mm
5-10 mm	+0,6 -0,0 mm
>10 mm	+0,8 -0,0 mm

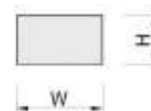
Complete the P/N with the two letter metal suffix.
I.e. **R.032.064.MO** or **B.080.254.SL**

ROUND



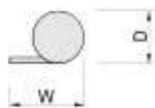
P/N	Diameter [mm]
T.016	1.6
T.024	2.4
T.032	3.2
T.048	4.8
T.064	6.4
T.080	8.0
T.095	9.5
T.111	11.1
T.127	12.7
T.159	15.9
T.191	19.1

RECTANGULAR

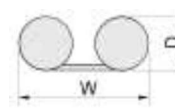


P/N	Height [mm]	Width [mm]
R.024.024	2.4	2.4
R.024.048	2.4	4.8
R.024.064	2.4	6.4
R.032.032	3.2	3.2
R.032.064	3.2	6.4
R.032.080	3.2	8.0
R.048.048	4.8	4.8
R.048.080	4.8	8.0
R.048.127	4.8	12.7
R.064.064	6.4	6.4
R.064.127	6.4	12.7
R.080.127	8.0	12.7
R.095.127	9.5	12.7

P-SHAPE



DOUBLE P-SHAPE

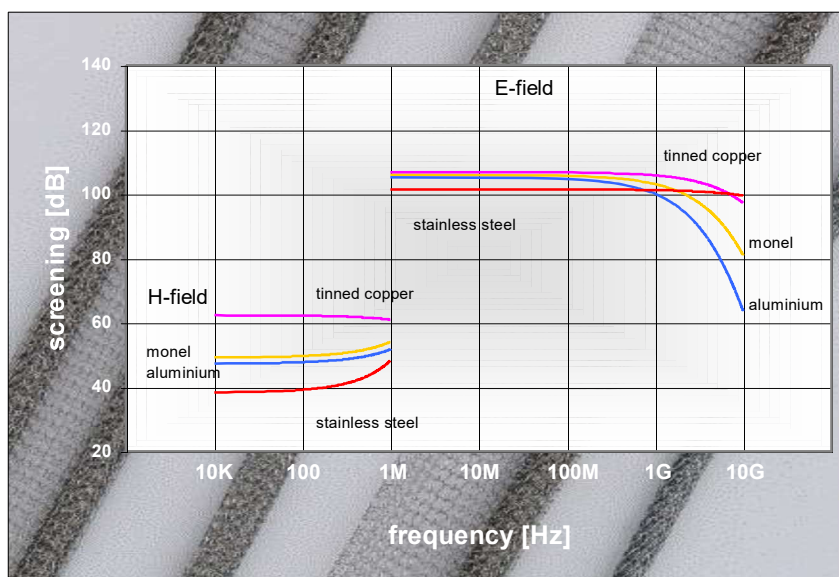


P/N	Diameter[mm]	Width [mm]
P.016.127	1,6	12,7
P.024.159	2,4	15,9
P.032.095	3.2	9.5
P.032.127	3.2	12.7
P.040.127	4.0	12.7
P.040.195	4.0	19.5
P.048.127	4.8	12.7
P.048.191	4.8	19.1
P.064.159	6.4	15.9
P.064.191	6.4	19.1
P.080.159	8.0	15.9
P.095.195	9.5	19.5
P.127.254	12.7	25.4

P/N	Diameter[mm]	Width [mm]
B.032.095	3.2	9.5
B.032.127	3.2	12.7
B.032.159	3.2	15.9
B.032.191	3.2	19.1
B.040.254	4.0	25.4
B.048.191	4.8	19.1
B.048.222	4.8	22.2
B.048.254	4.8	25.4
B.064.191	6.4	19.1
B.064.254	6.4	25.4
B.080.222	8.0	22.2
B.095.254	9.5	25.4
B.095.320	9.5	32.0

OTHER SIZE, CONFIGURATIONS OR READY-TO-MOUNT FINISHED GASKETS (according to your drawing)
AVAILABLE UPON REQUEST

SHIELDING PERFORMANCES COMPARISON



This graph compares general performances in E-field and H-field shield by four gaskets made of different materials (monel, stainless steel, tinned copper-clad steel and aluminium). Tests are performed on type **T.064** cross section and in accordance with **MIL STD 285**.

Monel

Material No. (DIN) 2.4360

Wire Diameter 0,11 mm

Test gasket **T.064.MO****Shielding Effectiveness**

Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	124,5
10 M	E	110
110 M	P	105,5
400 M	P	101
1 G	P	86
10 G	P	82,5
Magnetic		
10 K	H	48,5
100 K	H	50,5
1M	H	54

Tinned Copper Clad Steel

ASTM-B-520

Wire Diameter 0,11 mm

Test gasket **T.064.TC****Shielding Effectiveness**

Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	125,5
10 M	E	110
110 M	P	114,5
400 M	P	99
1 G	P	85,5
10 G	P	99,5
Magnetic		
10 K	H	62
100 K	H	62,5
1M	H	61

Stainless Steel

AISI 304 , Material No. (DIN) 1.4301

Wire Diameter 0,11 mm

Test gasket **T.064.SL****Shielding Effectiveness**

Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	119,5
10 M	E	104
110 M	P	103,5
400 M	P	97
1 G	P	84
10 G	P	101,5
Magnetic		
10 K	H	36
100 K	H	42
1M	H	48

Aluminium

Alloy 5056 , AMS-4182

Wire Diameter 0,13 mm

Test gasket **T.064.AL****Shielding Effectiveness**

Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	125
10 M	E	111,5
110 M	P	105
400 M	P	98
1 G	P	81,5
10 G	P	65
Magnetic		
10 K	H	45
100 K	H	50,5
1M	H	51,5

Tests performed in accordance with **MIL STD 285**.

WIRE MESH over ELASTOMER CORE GASKETS



- **IMPROVED RESILIENCY COMBINED TO DUST-MOISTURE SEALING**
- **EXCELLENT ATTENUATION CHARACTERISTICS** (95-105 dB in E-field, 40-80 dB in H-field)
- **CONTINUOUS OR CUT-TO-LENGTH GASKETS**
- **PRESSURE SENSITIVE ADHESIVE** (as an option)
- **Available materials:**

NEOPRENE sponge	(NS)
EPDM sponge	(ES)
SILICONE sponge	(SS)
SILICONE tube	(ST)
Low density urethane FOAM	(LF)

And wire materials:

MONEL	(MO)
TINNED COPPER CLAD STEEL	(TC)
STAINLESS STEEL	(SL)
BERYLLIUM COPPER	(BC)
TINNED COPPER	(TR)
ALUMINIUM	(AL)

Mechanical tolerances:

1,5-5 mm	+0,3 -0,3 mm
5,5-12 mm	+0,6 -0,6 mm
>12 mm	+0,9 -0,9 mm

Description

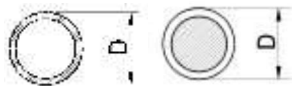
Elastomer core gaskets are made of an elastic "rubber-core", knitted over by layers of wire mesh (most used is two layers). Knitted wire element provides EMI shielding effectiveness, while the elastomer core enables the gasket section to recover more quickly, after repeated compression cycles. *Elastomer core gaskets* are used where the application requires a conformable EMI seal and even where a dust protection is needed. Catalogue sizes refer to elastomer core.

Complete the P/N with:

2- letters **CORE SUFFIX** ;
the number of layers (2 is standard) ;
2- letters **METAL SUFFIX**.

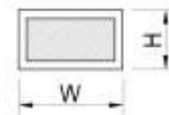
i.e. **BE.048.159.ST.2-MO**
double P section, 4.8x15.9 mm , 2 layers of Monel wire over Silicone Tube

ROUND



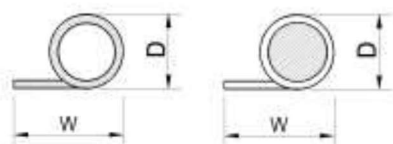
P/N	Diameter [mm]
TE.016	1.6
TE.024	2.4
TE.032	3.2
TE.048	4.8
TE.064	6.4
TE.080	8.0
TE.095	9.5
TE.111	11.1
TE.127	12.7
TE.159	15.9
TE.191	19.1

RECTANGULAR

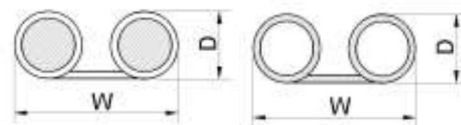


P/N	Height [mm]	Width [mm]
RE.024.024	2.4	2.4
RE.024.048	2.4	4.8
RE.024.064	2.4	6.4
RE.032.032	3.2	3.2
RE.032.064	3.2	6.4
RE.032.080	3.2	8.0
RE.048.048	4.8	4.8
RE.048.080	4.8	8.0
RE.048.127	4.8	12.7
RE.064.064	6.4	6.4
RE.064.127	6.4	12.7
RE.080.127	8.0	12.7
RE.095.127	9.5	12.7

P section



DOUBLE P section

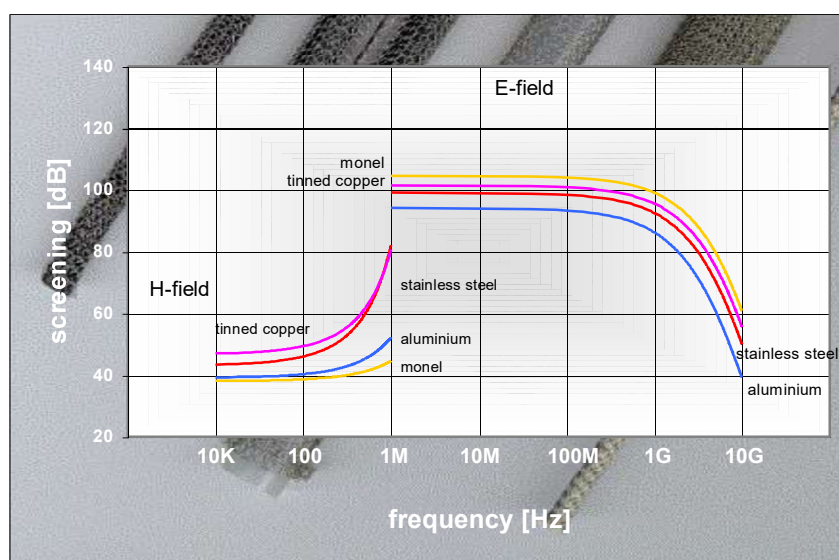


P/N	Diameter[mm]	Width [mm]
PE.032.095	3.2	9.5
PE.032.127	3.2	12.7
PE.032.159	3.2	15.9
PE.032.191	3.2	19.1
PE.048.127	4.8	12.7
PE.048.159	4.8	15.9
PE.048.191	4.8	19.1
PE.048.222	4.8	22.2
PE.060.191	6.0	19.1
PE.080.159	8.0	15.9
PE.080.222	8.0	22.2
PE.080.254	8.0	25.4
PE.095.320	9.5	32.0

P/N	Diameter[mm]	Width [mm]
BE.032.095	3.2	9.5
BE.032.127	3.2	12.7
BE.032.159	3.2	15.9
BE.032.191	3.2	19.1
BE.048.159	4.8	15.9
BE.048.191	4.8	19.1
BE.048.222	4.8	22.2
BE.048.254	4.8	25.4
BE.064.191	6.4	19.1
BE.064.254	6.4	25.4
BE.080.222	8.0	22.2
BE.095.254	9.5	25.4
BE.095.320	9.5	32.0

OTHER SIZE, CONFIGURATIONS OR READY-TO-MOUNT FINISHED GASKETS (according to your drawing)
AVAILABLE UPON REQUEST

SHIELDING PERFORMANCES COMPARISON



This graph compares general performances in E-field and H-field shielding by four gaskets made of different materials (monel, stainless steel, tinned copper-clad steel and aluminium). Tests are performed on type **TE.064.SS.2-XX**, with round cross-section and silicone sponge core, in accordance with **MIL STD 285**.

Monel

Material No. (DIN) 2.4360

Wire Diameter 0,11 mm

Test gasket **TE.064.SS.2-MO****Shielding Effectiveness**

Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	124,5
10 M	E	107
110 M	P	105,5
400 M	P	98
1 G	P	82
10 G	P	62
Magnetic		
10 K	H	37
100 K	H	40
1M	H	44,5

Tinned Copper Clad Steel

ASTM-B-520

Wire Diameter 0,11 mm

Test gasket **TE.064.SS.2-TC****Shielding Effectiveness**

Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	125,5
10 M	E	109
110 M	P	110
400 M	P	99,5
1 G	P	63
10 G	P	58
Magnetic		
10 K	H	38
100 K	H	62,5
1M	H	79

Stainless Steel

AISI 304 , Material No. (DIN) 1.4301

Wire Diameter 0,11 mm

Test gasket **TE.064.SS.2-SL****Shielding Effectiveness**

Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	125,5
10 M	E	107
110 M	P	105,5
400 M	P	91,5
1 G	P	64
10 G	P	52
Magnetic		
10 K	H	35
100 K	H	58,5
1M	H	80,5

Aluminium

Alloy 5056 , AMS-4182

Wire Diameter 0,13 mm

Test gasket **TE.064.SS.2-AL****Shielding Effectiveness**

Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	118
10 M	E	100,5
110 M	P	97
400 M	P	86
1 G	P	63,5
10 G	P	40,5
Magnetic		
10 K	H	37,5
100 K	H	42,5
1M	H	52

Tests performed in accordance with **MIL STD 285**.

MESH TAPES



- ESPECIALLY DESIGNED FOR SHIELDING AND GROUNDING OF ELECTRICAL AND ELECTRONIC CABLE ASSEMBLIES
- FLEXIBLE STRUCTURE TO CONFORM TO IRREGULAR SURFACES AND CONTOURS DURING THE WRAPPING PROCESS (50% overlap bandage)
- TIN PLATING TO ALLOW SOLDERABILITY
- USEFUL FOR STATIC DISCHARGE (ESD)
- TINNED COPPER CLAD STEEL IS STANDARD MATERIAL (best performance)
- SEVERAL OTHER ALLOYS AND WIRE DIAMETERS ARE AVAILABLE
- Available materials:
 TINNED COPPER CLAD STEEL (TC)
 TINNED COPPER (TR)
 STAINLESS STEEL (SL)
 MONEL (MO)
 ALUMINIUM (AL)

Complete the P/N with:
 number of wires (1 is standard)
 2-letters METAL SUFFIX
 wire diameter (0.11 mm is standard)

i.e. **C.0127.TC**
 tape 12.7 mm width, 1 Tinned Copper Clad
 Steel wire, standard wire diameter (0.11 mm)

C.0501.2TR/012
 tape 50.1 mm width, 2 Tinned Copper wires,
 wire diameter 0.12 mm

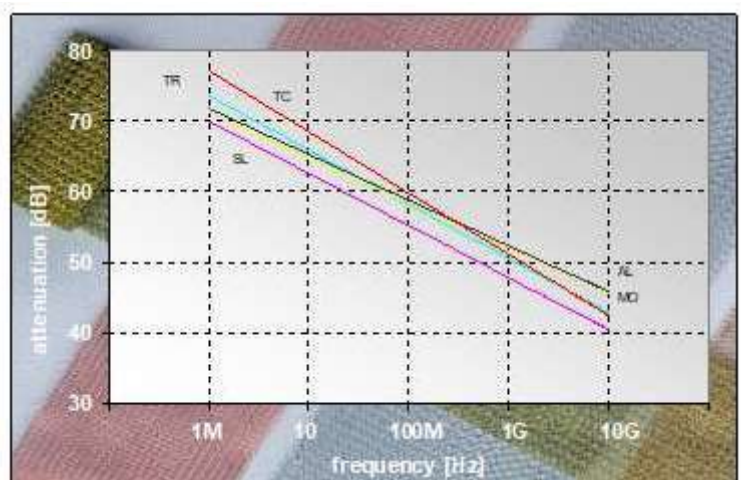
P/N	WIDTH [mm]
C.0127	12.7
C.0191	19.1
C.0254	25.4
C.0508	50.8
C.0762	76.2
C.1016	101.6
C.1524	152.4

Mechanical tolerances:
 <20 mm +0,8 -0,8 mm
 21-50 mm +1,3 -1,3 mm
 51-155 mm +2,0 -2,0 mm

Frequency	Attenuation [dB]				
	TC	MO	SL	AL	TR
1 MHz	78	70	69	73	73
10 MHz	66	64	61	63	65
100 MHz	60	60	58	58	59
1 GHz	55	56	51	56	54
10 GHz	40	42	37	44	40

NOTE: these values are indicative only and are for 50% overlap, giving effective 4 layers of mesh

E-FIELD ATTENUATION



MULTISTRIP GASKETS



- COMBINATION OF KNITTED WIRE MESH BONDED TO AN ELASTOMER WHICH PROVIDES AN EMI SHIELD AS WELL AS AN ENVIRONMENTAL SEALING
- COMPLETE CHOICE OF KNITTED WIRE MATERIALS
- PRESSURE SENSITIVE ADHESIVE ON ELASTOMER FOR EASY APPLICATION (standard)
- CUSTOMIZED GASKETS, REALIZED AS A FRAME
- Range of standard elastomer strips:
NEOPRENE sponge (NS)
EPDM sponge (ES)

And wire materials:

MONEL (MO)
TINNED COPPER CLAD STEEL (TC)
STAINLESS STEEL (SL)
BERYLLIUM COPPER (BC)
TINNED COPPER (TR)
ALUMINIUM (AL)

Complete the P/N with:

2-letters ELASTOMER SUFFIX
2-letters METAL SUFFIX

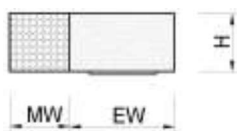
i.e. **REM.032.032.159.ES.TR**

single 3.2x3.2 mm Tinned Copper mesh combined to
3.2x15.9 mm Epdm Sponge

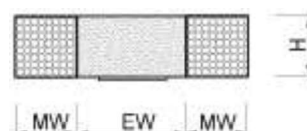
REDM.032.064.095.NS.MO

double 3.2x6.4 mm Monel mesh combined to
3.2x9.5 mm Neoprene Sponge

SINGLE



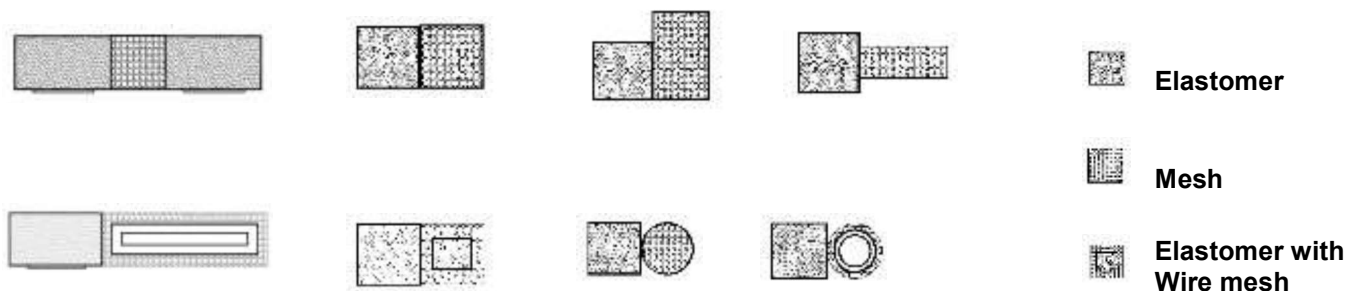
DOUBLE



P/N	Height [mm]	Mesh Width [mm]	Elastomer W. [mm]
REM.024.032.064	2.4	3.2	6.4
REM.024.032.095	2.4	3.2	9.5
REM.032.032.127	3.2	3.2	12.7
REM.032.032.159	3.2	3.2	15.9
REM.032.064.127	3.2	6.4	12.7
REM.048.048.127	4.8	4.8	12.7
REM.048.064.159	4.8	6.4	15.9
REM.048.064.191	4.8	6.4	19.1
REM.048.095.127	4.8	9.5	12.7
REM.064.064.159	6.4	6.4	15.9
REM.064.095.191	6.4	9.5	19.1
REM.095.064.127	9.5	6.4	12.7
REM.095.064.191	9.5	6.4	19.1

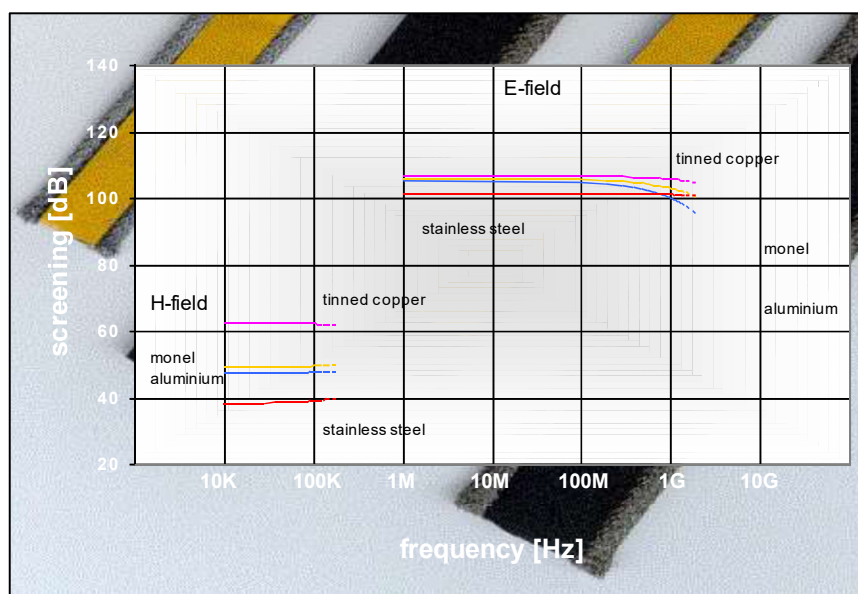
P/N	Height [mm]	Mesh Width [mm]	Elastomer W. [mm]
REDM.032.032.064	3.2	3.2	6.4
REDM.032.032.095	3.2	3.2	9.5
REDM.032.032.127	3.2	3.2	12.7
REDM.032.064.095	3.2	6.4	9.5
REDM.032.064.127	3.2	6.4	12.7
REDM.048.032.064	4.8	3.2	6.4
REDM.048.032.127	4.8	3.2	12.7
REDM.064.064.127	6.4	6.4	12.7

SPECIAL PROFILES



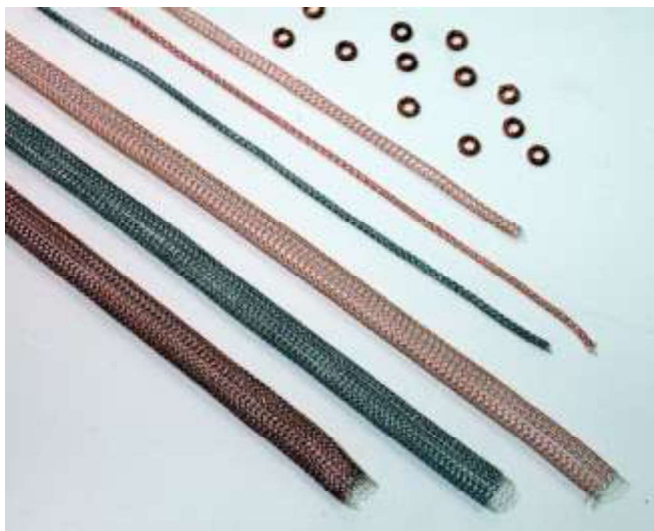
OTHER SIZE, CONFIGURATIONS OR READY-TO-MOUNT FINISHED GASKETS (according to your drawing)
AVAILABLE UPON REQUEST

SHIELDING PERFORMANCES COMPARISON



This graph compares general performances in E-field and H-field shield by four multistrip gaskets (P/N: **REM.064.064.159.NS.XX**) made of different wire materials (monel, stainless steel, tinned copper-clad steel and aluminium). Tests are performed in accordance with **MIL STD 285**.

“SPRING series” GASKETS



- MINIMUM COMPRESSION FORCE AND HIGH RESILIENCY GASKETS
- OPTIMUM ATTENUATING PROPERTIES:
-Beryllium Copper, E-field
-Tinned Copper-clad Steel, H-field
- BEST FREE HEIGHT RECOVERY AFTER DEFLECTION DURING OPERATIVE LIFE
- NO MOISTURE ABSORPTION
- CONTINUOUS, SINGLE OR DOUBLE KNIT VERSION
- PRESSURE SENSITIVE ADHESIVE
(as an option on D-section gasket only)
- Available materials:
BERYLLIUM COPPER (BC)
STAINLESS STEEL (SL)
BERYLLIUM COPPER TIN PLATED (BT)
TINNED COPPER CLAD STEEL (*) (TC)

(*) Combined with another wire material only(double knit)

Complete the P/N with:

i.e. **SB.032.127.1-SL**

Double P-section, 3.2x12.7 mm, 1 stainless steel wire

number of wires

2-letters METAL SUFFIX

SD.080.095.2-BC

D-section, 8.0x9.5 mm, 2 beryllium copper wires

Mechanical tolerances:

1,5-5 mm	+0,4 -0,4 mm
6-10 mm	+0,6 -0,6 mm
>10 mm	+0,8 -0,8 mm

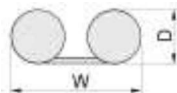
ROUND



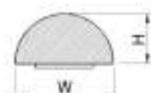
P section



DOUBLE P section



D section



P/N	Diameter [mm]
ST.016	1.6
ST.024	2.4
ST.032	3.2
ST.048	4.8
ST.064	6.4
ST.080	8.0
ST.095	9.5
ST.111	11.1
ST.127	12.7

P/N	Diameter [mm]	Width [mm]
SP.016.095	1.6	9.5
SP.024.127	2.4	12.7
SP.032.127	3.2	12.7
SP.032.159	3.2	15.9
SP.048.159	4.8	15.9
SP.064.191	6.4	19.1
SP.064.254	6.4	25.4
SP.080.254	8.0	25.4
SP.095.320	9.5	32.0

P/N	Diameter [mm]	Width [mm]
SB.024.127	2.4	12.7
SB.032.127	3.2	12.7
SB.032.159	3.2	15.9
SB.048.159	4.8	15.9
SB.048.191	4.8	19.1
SB.064.191	6.4	19.1
SB.064.254	6.4	25.4
SB.080.254	8.0	25.4
SB.095.320	9.5	32.0

P/N	Height [mm]	Width [mm]
SD.032.051	3.2	5.1

**OTHER SIZE, CONFIGURATIONS OR READY-TO-MOUNT FINISHED GASKETS (according to your drawing)
AVAILABLE UPON REQUEST**

SYNTHETIC YARN KNITTED GASKETS

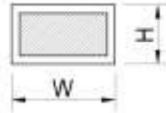


- SILVER PLATED SYNTHETIC YARN KNITTED AND BONDED OVER ELASTOMER
- OPTIMAL ELECTRICAL CONDUCTIVITY OF EVERY SINGLE FIBER
- HIGH COVERAGE KNITTED YARN FOR WIDE CONTACT SURFACE AND SHIELDING
- SMOOTH AND SOFT SURFACE GASKETS
- SELF-TERMINATING CUT ENDS
- PRESSURE SENSITIVE ADHESIVE
- CONTINUOUS OR CUT-TO-LENGTH GASKETS
- SHIELDING EFFICIENCY AS HIGH AS 100 dB IN A FREQUENCY RANGE OF 1 MHz TO 1GHz (E-field)
- Standard core material: NEOPRENE SPONGE.
Other core materials available upon request

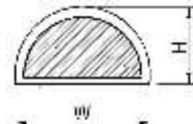
ROUND



RECTANGULAR



D-section



Mechanical tolerances:

1,5-5 mm	+0,65 -0,65 mm
6-10 mm	+0,75 -0,75 mm
>10 mm	+0,8 -0,8 mm

P/N	Diameter[mm]
YTE.016	1.6
YTE.024	2.4
YTE.032	3.2
YTE.048	4.8
YTE.064	6.4
YTE.080	8.0
YTE.095	9.5
YTE.111	11.1
YTE.127	12.7
YTE.159	15.9
YTE.191	19.1

P/N	Height [mm]	Width [mm]
YRE.024.024	2.4	2.4
YRE.024.048	2.4	4.8
YRE.024.064	2.4	6.4
YRE.032.032	3.2	3.2
YRE.032.064	3.2	6.4
YRE.032.080	3.2	8.0
YRE.048.048	4.8	4.8
YRE.048.080	4.8	8.0
YRE.048.127	4.8	12.7
YRE.064.064	6.4	6.4
YRE.064.127	6.4	12.7
YRE.080.127	8.0	12.7
YRE.095.127	9.5	12.7

P/N	Height [mm]	Width [mm]
YDE.048.076	4.8	7.6
YDE.064.095	6.4	9.5
YDE.064.127	6.4	12.7
YDE.095.127	9.5	12.7

**OTHER SIZE, CONFIGURATIONS OR READY-TO-MOUNT FINISHED GASKETS (according to your drawing)
AVAILABLE UPON REQUEST**

ELASTIC WASHERS and CONTACTS



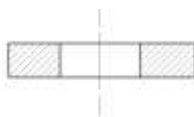
- *HIGH CONDUCTIVITY (ELECTRICAL and THERMAL) WITH VIBRATION AND SHOCK DAMPENING PROPERTIES*
- *LOW IMPEDANCE (typically less than 0.02 ohm) EVEN WITH LOW CLOSURE FORCE*
- *TYPICAL INTERLOCKING LOOP STRUCTURE PROVIDES THE SPRING EFFECT*
- *MATERIAL DENSITY OF THE FINE WIRE MESH DEFINES THE REQUIRED SPRING FORCE*
- *CUSTOMIZED SHAPES AVAILABLE*
- *Wide voice of wire material*

MONEL	(MO)
BERYLLIUM COPPER	(BC)
TINNED COPPER CLAD STEEL	(TC)
STAINLESS STEEL	(SL)
ALUMINIUM	(AL)

Complete the P/N with 2-letters METAL SUFFIX:

i.e. **W.250.120.032.MO** or **WP.125.024.SL**

WASHERS



CONTACTS

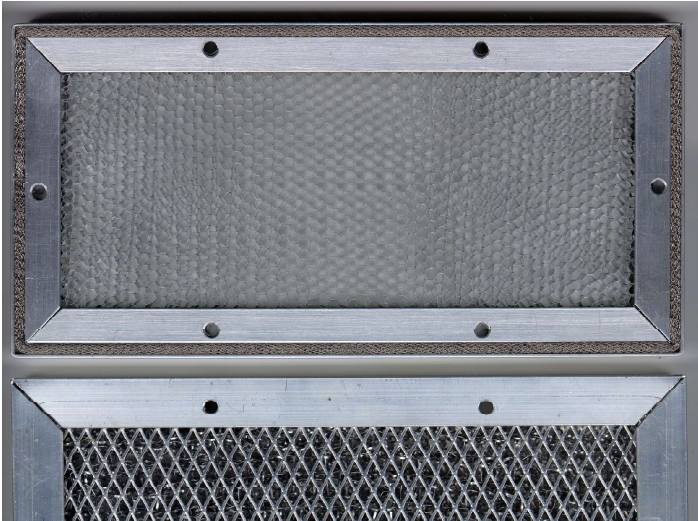


P/N	Outside Diameter [mm]	Inside Diameter [mm]	Free Height [mm]
W.065.040.024	6.5	4.0	2.4
W.075.040.048	7.5	4.0	4.8
W.095.048.032	9.5	4.8	3.2
W.102.058.032	10.2	5.8	3.2
W.127.060.032	12.7	6.0	3.2
W.127.080.048	12.7	8.0	4.8
W.127.090.048	12.7	9.0	4.8
W.159.095.024	15.9	9.5	2.4
W.191.127.032	19.1	12.7	3.2
W.220.159.048	22.0	15.9	4.8
W.250.120.032	25.0	12.0	3.2
W.320.159.048	32.0	15.9	4.8
W.400.320.048	40.0	32.0	4.8

P/N	Diameter [mm]	Free Height [mm]
WP.125.024	12.5	2.4
WP.220.032	22.0	3.2
WP.305.032	30.5	3.2
WP.320.048	32.0	4.8
WP.500.048	50.0	4.8

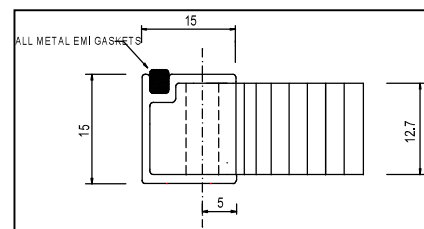
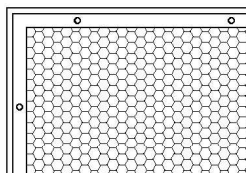
OTHER SIZE, CONFIGURATIONS OR MATERIALS (according to your drawing) AVAILABLE UPON REQUEST

SHIELDING AIR VENT PANELS



- *HIGH LEVEL OF EMI/RFI SUPPRESSION COMBINED TO AIR FLOW IN SHIELDED ENCLOSURES*
- *ALUMINIUM HONEYCOMB FOR HIGHEST AIRFLOW OF ANY VENT MEDIUM (LOW STATIC PRESSURE DROP) (STAINLESS STEEL MATERIAL UPON REQUEST)*
- *FURNISHED READY TO INSTALL WITH STANDARD ALUMINIUM FRAME AND EMI SHIELDING GASKET (standard thru-holes on the frame for fixing)*
- *Hexagon cell size 1/8" (3.2 mm)
(slant cell 45° available upon request)*
- *Thickness 1/2" (12.7 mm) or 1/4"+1/4" (6.35+6.35 mm)*
- *Surface Finish for environmental protection (Surtec 650 standard ; metal plating upon request)*

ALUMINIUM HONEYCOMB PANELS

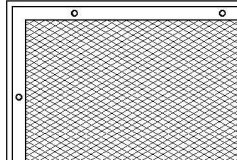


P/N	Length [mm]	Width [mm]	No. Fixing holes
HP.102.102	102	102	4
HP.102.152	102	152	6
HP.076.204	76	204	6
HP.076.305	76	305	8
HP.127.127	127	127	6
HP.127.254	127	254	8
HP.153.305	153	305	10
HP.178.178	178	178	8
HP.203.305	203	305	12
HP.254.254	254	254	12
HP.254.457	254	457	14
HP.305.406	305	406	16
HP.305.610	305	610	20

TYPICAL ATTENUATION			
	H-field	E-field	Plane wave
	100 kHz	10 MHz	1 GHz
φ 3.2 mm	60 dB	80 dB	50 dB

**OTHER CELL SIZE, THICKNESSES, DIMENSION OR FINISH SURFACE TREATMENTS
(according to your drawing) AVAILABLE UPON REQUEST**

WIRE SCREEN PANELS



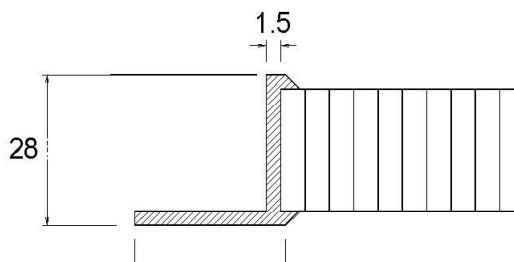
- ALUMINIUM WIRE SCREEN SANDWICHED BETWEEN RIGID EXPANDED MESHES FOR DUST ARRESTING (INLET COOLING PANELS)
- ALUMINIUM FRAME: 15x15 mm
- ALUMINIUM CORRUGATED MESH (standard 3 layers)

P/N	Length [mm]	Width [mm]	No. Fixing holes
MP.076.076	76	76	4
MP.076.152	76	152	6
MP.076.203	76	203	8
MP.076.254	76	254	8
MP.076.305	76	305	10
MP.102.102	102	102	4
MP.102.152	102	152	6
MP.127.127	127	127	4
MP.127.178	127	178	6
MP.127.254	127	254	8
MP.153.153	153	153	8
MP.153.254	153	254	10
MP.153.305	153	305	12

TYPICAL ATTENUATION			
	H-field E-field Plane wave		
	100 kHz	10 MHz	1 GHz
Aluminium mesh	50 dB	15 dB	50 dB

Tests are performed in accordance with **MIL-STD 285**. Values are indicative only.

STEEL HONEYCOMB PANELS



TYPICAL ATTENUATION (tin plated)				
	H-field	E-field	Plane wave	
	100 kHz	10 MHz	1 GHz	10 GHz
φ 3.2 mm	94 dB	130 dB	130 dB	100 dB

Tests are performed in accordance with **MIL-STD 285**. Values are indicative only.

KNITTED MESH SOFT GASKETS



- IMPROVED RESILIENCY COMBINED WITH DUST-MOISTURE SEALING AND VERY LOW COMPRESSION FORCE
- EXCELLENT ATTENUATION CHARACTERISTICS
- SUPPLIED ENDLESS ON REELS OR CUT-TO-LENGTH AND TERMINATED ACCORDING TO YOUR SPECIFICATIONS
- FLAME RETARDANT ACCORDING TO UL94-HF1
- Standard Materials:

LOW DENSITY FOAM (LF)

MONEL WIRE Ø 0.09 mm (MO)

Mechanical tolerances:

Up to 6,4 mm +0,8 -0,8 mm
>6,4 mm +1,2 -1,2 mm

Description

Knitted Mesh Soft gaskets are designed specifically for shielding applications where a low compression resistance gasket is required. One layer of special fine Monel wire knitted over a very low density urethane foam gives an excellent combination of EMI shielding performance and mechanical characteristics. Pressure sensitive adhesive is available upon request (suffix p/n with "AD"). Catalogue sizes refer to elastomer core.

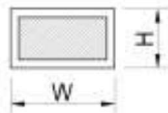
Complete the P/N with:

2- letters CORE SUFFIX ;
the number of layers (1 is standard) ;
2- letters METAL SUFFIX.

I.e. **REK.048.064.LF.MO.AD**

rectangular section, 4.8x6.4 mm , 1 layer of Monel wire with adhesive

RECTANGULAR



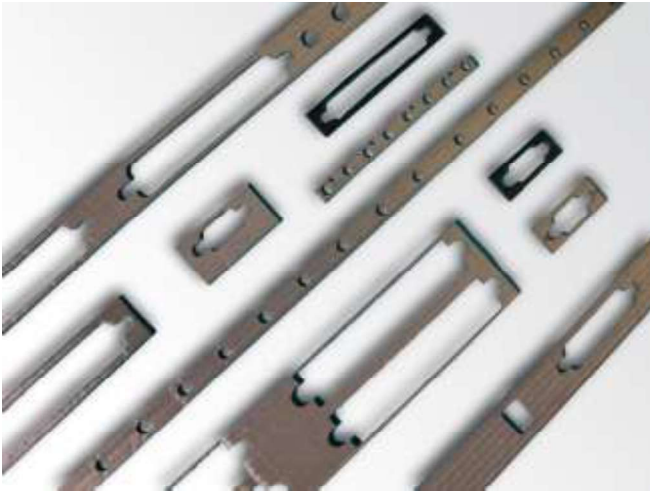
P/N	Height [mm]	Width [mm]
REK.032.048	3.2	4.8
REK.032.064	3.2	6.4
REK.032.095	3.2	9.5
REK.032.127	3.2	12.7
REK.048.048	4.8	4.8
REK.048.064	4.8	6.4
REK.048.095	4.8	9.5
REK.064.064	6.4	6.4
REK.064.095	6.4	9.5
REK.064.127	6.4	12.7
REK.095.095	9.5	9.5
REK.095.127	9.5	12.7
REK.127.127	12.7	12.7

Monel		
Material No. (DIN) 2.4360		
Wire Diameter 0,09 mm		
Test gasket REK.095.095.LF.MO		
Shielding Effectiveness		
Electrical		
Frequency [Hz]	Mode	Screening [dB]
1 M	E	120
10 M	E	108
100 M	E	102
400 M	E	98
1 G	P	90

Tests performed in accordance with MIL STD 285
Gasket compression 25%

OTHER SIZE, CONFIGURATIONS OR READY-TO-MOUNT FINISHED GASKETS (according to your drawing) AVAILABLE UPON REQUEST

CONNECTOR GASKETS



Description

Connector gaskets are made of a low compression force foam core, bonded over with conductive fabric and shaped like customer's drawings. Ni/Cu standard or Ni/Cu with Carbon protection coating fabric bonded to resilient core (normally available in urethane foam) offers a very good shielding efficiency and works as a seal to block air, light and dust. Connector gaskets are also available with PSA, if required.

- CONDUCTIVE FABRIC WRAPPED OVER FOAM OR SPONGE CORE AND DIE-CUT AS DRAWING
- SUITABLE FOR USE ON METAL ENCLOSURES OR METALLIZED PLASTICS (LOW COMPRESSION FORCE)
- OVER 100dB AVERAGE SHIELDING EFFICIENCY IN THE RANGE 100MHz-10GHz
- RIP-STOP FABRICS THAT ALLOW SELF-TERMINATING CUT ENDS ON GASKETS
- AVAILABLE WITH NICKEL COPPER FABRIC TO ASSURE THE BEST SHIELDING PERFORMANCE
- PRESSURE SENSITIVE ADHESIVE TAPE (optional)
- Range of cores:

URETHANE FOAM	(PU)
NEOPRENE sponge	(NS)
EPDM sponge	(ES)

And fabric materials:

NICKEL COPPER + CARBON	(SI)
NICKEL COPPER	(NC)

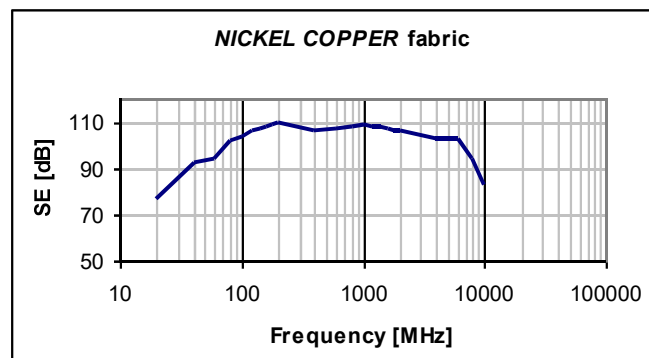
Complete the P/N with:

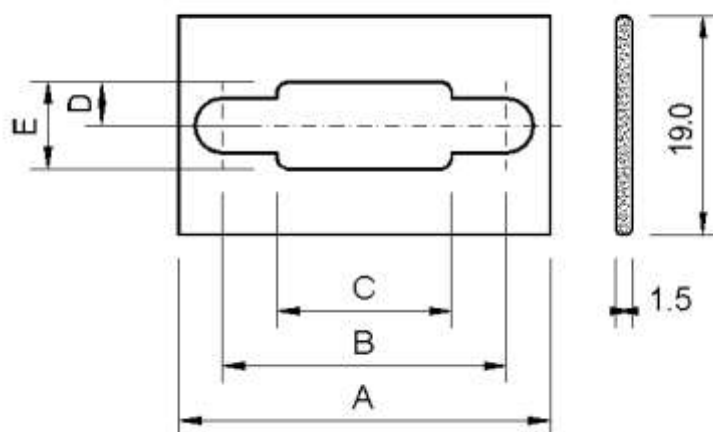
2-letters CORE SUFFIX;
2-letters FABRIC SUFFIX;
"AD" for PSA

i.e. **CG.S09.PU.SI.AD**

D-Connector, 9 pins, Nickel Copper + Carbon fabric over Urethane foam, with adhesive

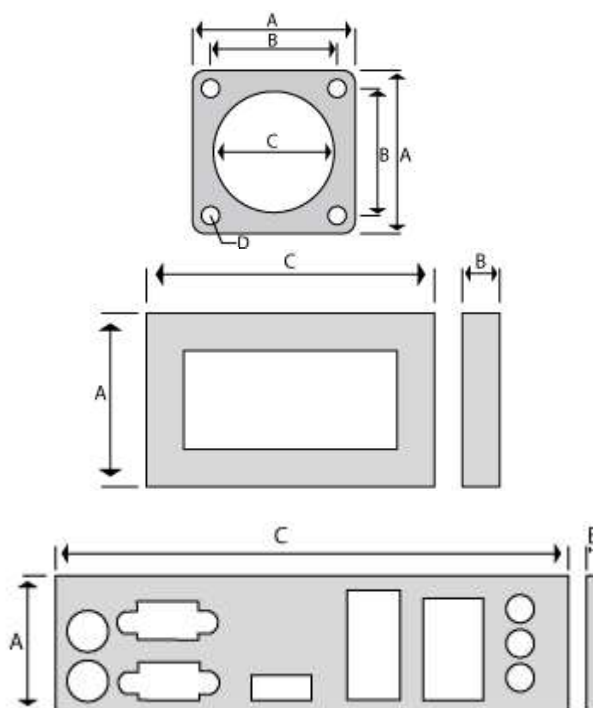
Shielding performances of fabric over foam gaskets according to MIL-G-83528





P/N	PINS	A	B	C	D	E	Application
CG.S09	9	33.5	25.0	16.5	4.0	7.9	Com port, Mouse, Serial
CG.S11	11	41.7	33.3	24.7	3.9	7.9	Game, Multimedia, serial, VGA
CG.S15	15	41.7	33.3	24.7	3.9	7.9	Game, Multimedia, serial, VGA
CG.S25	25	56.0	47.4	38.1	3.9	7.9	Parallel, Printer, Scanner, Serial
CG.S37	37	72.6	64.4	55.9	3.9	7.9	Serial Port
CG.S50	50	69.9	61.1	52.4	5.4	10.7	Serial Port

**OTHER SIZE, CONFIGURATIONS OR READY-TO-MOUNT FINISHED GASKETS
AVAILABLE UPON REQUEST, HERE ARE SOME EXAMPLES:**



CONDUCTIVE FOILS



TEMAS engineering provides a variety of conductive foil materials that can be used for shielding and grounding. These materials are supplied as a standard with conductive adhesive, and can also be custom designed. Please ask for your specific need to compare our latest solution.

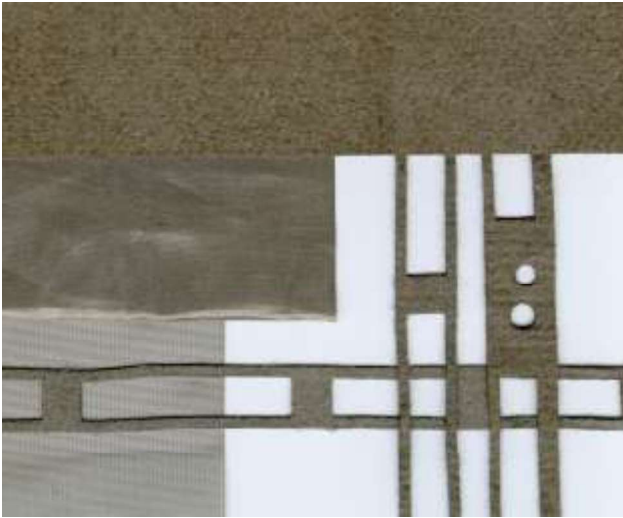


GENERAL SPECIFICATIONS

Backing	Temp. [°C]	Thickness of Backing [mm]	Total Thickness [mm]	Tensile Strength [N/mm]	Adhesion Strength [N/mm]	Resistance [ohm/25mm ²]	Conductive Adhesive
Non-woven	-40 to 121	0.15 to 0.48	0.52	3.2	0.44	0.005	√
Fabric	-40 to 121	0.15	0.17	8.8	0.38	---	---
---	-40 to 149	---	0.05	---	0.54	0.002	√
Fabric	-40 to 121	0.1	0.15	1.8	0.27	0.003	√
Aluminium Foil	-30 to 155	0.05	0.1	2.8	0.39	0.009	√
Copper Foil	-30 to 155	0.025	0.08	3.5	0.44	---	---
Copper Foil	-30 to 155	0.038	0.089	4.4	0.44	0.003	√
Tin Clad Copper Foil	-30 to 155	0.038	0.089	4.4	0.44	0.003	√
Copper Foil	-40 to 121	0.025	0.125	4.4	0.33	0.002	√
Pet/Al Foil	130	0.038	0.09	2.6	0.44	0.003	√

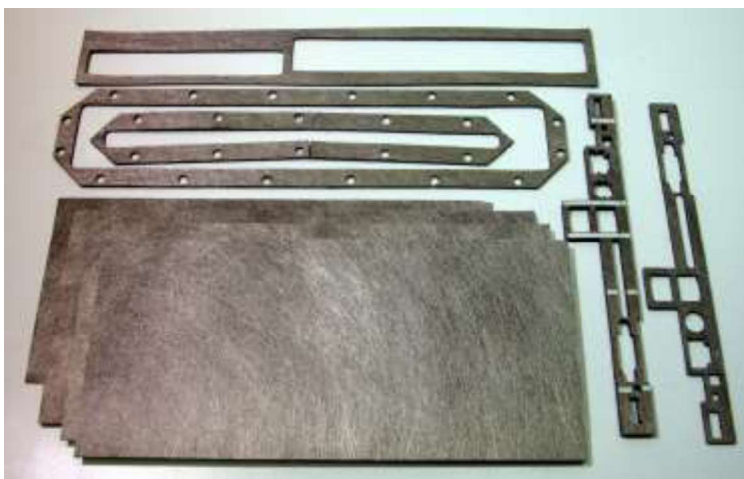
Materials details and specification may vary while new solutions become available

CONDUCTIVE TEXTILES



- METAL COATED FABRICS AND ELECTROCHEMICAL IMPREGNATED NON-WOVEN TEXTILES
- LOW VOLUME and/or SURFACE RESISTIVITY
- GOOD FLEXIBILITY TO ACCOMODATE THE IRREGULARITIES IN THE MATING SURFACES AND ENSURE ELECTRICAL CONTINUITY (SMOOTH AND SOFT SURFACE OF THE GASKETS)
- RIP-STOP CHARACTERISTIC
- PRESSURE SENSITIVE ADHESIVE (as an option on fabricated gaskets)
- ENVIRONMENTAL SEALING AGAINST DUST AND MOISTURE
- DIE-CUT GASKETS ACCORDING TO DRAWING

CONDUCTIVE FOAMS



- COMBINE THE CONDUCTIVITY OF METAL GASKETS WITH THE EXTREMELY LOW COMPRESSION CHARACTERISTIC OF FABRIC-OVER-FOAM GASKETS
- COMPRESSION RATE FROM 10% TO 50% OF ORIGINAL UNCOMPRESSED MATERIAL
- Z-AXIS THROUGH CONDUCTIVITY IMPROVES SHIELDING EFFECTIVENESS ACROSS A WIDE RANGE OF FREQUENCIES
- STANDARD THICKNESS 1,5 mm TO FIT MANY COMMON APPLICATIONS
- PRESSURE SENSITIVE CONDUCTIVE ADHESIVE (available as standard)

CONDUCTIVE SILICONE GASKETS



Available in a wide range of standard profiles and special design profiles. From a simple "O" ring cord down to complex hollow forms. Particularly suitable for applications requiring low closure forces. Profiles can be supplied adhesive backed or with rivet/screw holes for easy assembly.

A wide range of cross sections is available in extruded form. The profiles below are preferred standard that are readily available. Other special profiles and "die-cut" solutions from flat material are available upon request.

Complete the P/N with:

Dimension **a**. dimension **b**. material /length(mm)

I.e. **SIO.024.008.1J3/2000**

Hollow round section, dimension **a** 2.4 mm, dimension **b** 0.8 mm, material Ni/Gr, length 2000mm

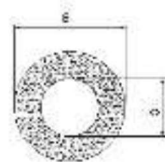
Round section



SIT.xxx.xxx/xxxx

a	a	a
1.0	2.8	4.8
1.3	3.0	5.5
1.6	3.2	6.3
1.8	3.3	
2.0	3.5	
2.4	3.8	
2.6	4.0	

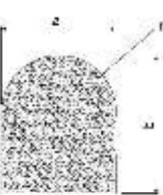
Hollow Round section



SIO.xxx.xxx.xxx/xxxx

a	b
2.4	0.8
3.2	1.1
4.0	1.3
6.3	3.2
7.9	4.9
9.5	6.3

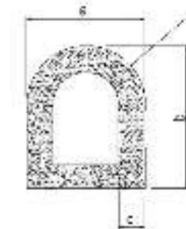
D-section



SID.xxx.xxx.xxx/xxxx

a	b	R
1.6	1.4	0.7
1.7	1.6	0.8
2.0	2.4	1.2
2.3	2.0	1.0
2.5	1.6	0.8
2.8	3.8	1.9
3.4	3.1	1.5
4.5	4.5	2.3
4.8	4.8	2.0

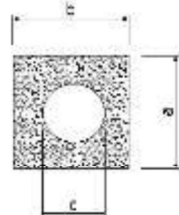
Hollow D-section



SIHD.xxx.xxx.xxx/xxxx

a	b	c	R
4.0	4.0	1.1	2.0
4.8	4.7	1.3	2.4
6.4	6.4	1.7	3.2
7.9	7.9	1.3	4.0
8.0	8.0	1.6	4.0
12.4	8.2	2.0	6.2

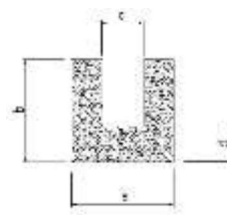
Hollow Square section



SIR.xxx.xxx.xxx/xxxx

a	b	c
3.0	3.0	0.8
6.0	6.0	2.0

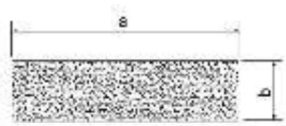
Channel section



SIC.xxx.xxx.xxx/xxxx

a	b	c	d
2.5	2.5	0.9	0.8
3.2	2.8	0.7	1.3
3.2	5.7	0.5	1.9
4.0	4.0	1.6	1.2
4.5	4.0	1.2	1.9
8.3	5.9	1.6	2.9

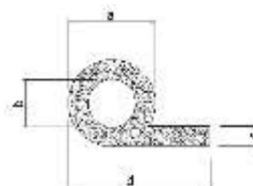
Flat Strip section



SIF.xxx.xxx.xxx/xxxx

a	b	a	b
1.6	1.0	12.7	1.9
2.4	1.6	12.7	3.2
3.0	1.9	12.7	4.8
3.2	1.6	19.0	1.6
4.0	1.6	22.3	1.6
6.3	1.6	25.4	6.3

Hollow 'P' section



SIP.xxx.xxx.xxx/xxxx

a	b	c	d
5.0	2.0	1.6	12.7
5.0	2.0	1.6	21.6
6.3	3.2	1.6	12.7
6.3	3.8	1.6	15.9
6.3	3.2	1.6	22.2
7.9	4.7	1.6	22.2
9.1	6.5	1.8	19.8

OTHER SIZE AND OTHER SPECIAL PROFILES (according to your drawing) AVAILABLE upon request

General Description

Material Reference (Type)	1A/1	1B/1	1D/1	1F	1I/1	1I/3	1J/2
Elastomer Type (Sil - Silicone, F/Sil - Fluorosilicone)	Sil	Sil	Sil	Sil	Sil	Sil	Sil
Filler Material (Silver on Aluminium, Nickel, Copper, Glass, Nickel on Graphite)	Ag/Ni	Ag/Cu	Ag/Al	Carbon	Ag/Glass	Ag/Glass	Ni/Gr
Colour	Tan	Tan	Tan	Black	Tan	Tan	Grey

Electrical Properties	Tol	Test Method							
Volume Resistivity (ohm.cm) (as supplied)	Max		0.047	0.005	0.008	9.000	0.050	0.005	0.050
Shielding Effectiveness (dB)		MIL-G-83528 MIL 285							
200 kHz (H-field)			70	70	70	30	50	55	70
100 MHz (E-field)			105	115	110	65	65	95	95
500 MHz (E-field)			105	115	105	60	70	95	90
2 GHz (Plane Wave)			100	115	100	40	70	95	90
10 GHz (Plane Wave)			100	115	100	30	65	95	90

Physical Properties

Specific Gravity (g/cm ³)	±5%	ASTM D-792	4.32	3.32	2.11	1.19	1.85	1.80	2.45
Hardness (Shore A)	±5	ASTM D-2240	65	75	70	70	65	65	80
Tensile Streght (MPa)	Min	ASTM D-412	1.25	1.25	0.90	5.00	0.55	0.35	2.00
Elongation (%)	Min	ASTM D-412	100	100	100	150	60	75	150
Compression Set (%)	Max	ASTM D-395	30	30	30	20	30	30	30
Upper Operating Temperature(°C)	-		160	125	160	160	160	160	160
Lower Operating Temperature(°C)	-	ASTM D-1329	-50	-50	-50	-50	-50	-50	-50

General Description

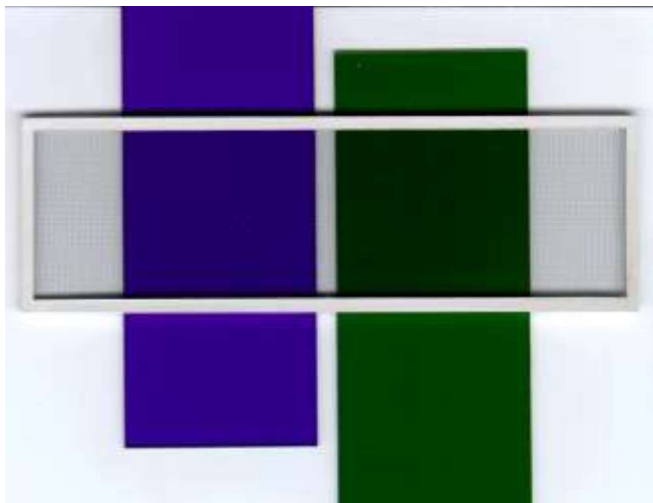
Ece Material Reference (Type)	1J/3	1I/4	1D/2	2A	2B	2D	2J
	New Materials						
Elastomer Type (Sil - Silicone, F/Sil - Fluorosilicone)	Sil	Sil	Sil	F/Sil	F/Sil	F/Sil	F/Sil
Filler Material (Silver on Aluminium, Nickel, Copper, Glass, Nickel on Graphite)	Ni/Gr	Ag/Glass	Ag/Al	Ag/Ni	Ag/Cu	Ag/Al	Ni/Gr

Electrical Properties		Tol	Test Method						
Volume Resistivity (ohm.cm) (as supplied)	Max		0.100- 0.500	0.050- 0.100	0.008	0.005	0.005	0.010	0.050
Shielding Effectiveness (dB)		MIL-G-83528 MIL 285							
200 kHz (H-field)			70	55	70	75	75	70	70
100 MHz (E-field)			95	95	100	110	110	110	100
500 MHz (E-field)			90	90	100	110	120	105	100
2 GHz (Plane Wave)			90	90	100	105	120	100	100
10 GHz (Plane Wave)			90	90	100	100	120	100	100

Physical Properties

Specific Gravity (g/cm ³)	±5%	ASTM D-792	1.99	1.75	2.00	4.60	5.00	2.70	3.25
Hardness (Shore A)	±5	ASTM D-2240	60	60	65	80	75	70	80
Tensile Streght (MPa)	Min	ASTM D-412	1.00	0.90	0.90	1.25	1.25	0.55	0.75
Elongation (%)	Min	ASTM D-412	100	80	175	100	100	100	100
Compression Set (%)	Max	ASTM D-395	30	30	30	30	30	30	30
Upper Operating Temperature(°C)	-		160	160	160	160	125	160	160
Lower Operating Temperature(°C)	-	ASTM D-1329	-50	-50	-50	-50	-55	-55	-55

EMC OPTICAL FILTERS



- *ACRYLIC OR POLYCARBONATE FILTERS WITH AN EMBEDDED FINE METAL MESH FOR HIGHEST EMI/RFI SUPPRESSION*
- *BLACKENED, SILVER-PLATED OR BRIGHT MESH IN STAINLESS STEEL OR COPPER (100 openings per inch, blackened stainless steel is standard)*
- *LIGHT TRANSMITTANCE 80% IN RELATION TO TRANSPARENT ACRYLIC*
- *DIFFERENT COLOURS AVAILABLE AND NO-GLARE or NO-SCRATCH SURFACE FINISH*
- *CNC MACHINED EDGES, FINISHED WITH SILVER PAINT and READY-TO-INSTALL*
- *OPERATION TEMPERATURES: -40°C / +70°C*
- *45° MESH ORIENTATION TO AVOID POSSIBLE DISTRACTING EFFECTS LIKE "NEWTON RINGS"*
- *STANDARD THICKNESS: 2, 2.5, 3, 4 mm
DIMENSION UP TO 1000X500 mm*

SILVER CONDUCTIVE PAINT



TYPICAL CHARACTERISTICS

Mesh	Surface	Open. per inch	Wire diameter [mm]	Open area
Copper	blackened	100	0.056	61 %
Stainless steel	bright	100	0.025	81 %

Material	Thickness [mm]		Temperature range [°C]	Construction	Max size [mm]	Form
	min	max				
Acrylic (standard)	2.0	on request	-50 to +60	stratified	1000x500	flat

**other materials upon request (e.g. polycarbonate, glass)*

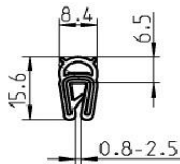
EMI SHIELDING PERFORMANCE (MIL-STD 285)

Wire Material	Electric field wave				Plane wave		
	1 MHz	10MHz	100 MHz	400 MHz	1 GHz	10 GHz	18 GHz
Copper	103	94	78	67	58	45	40
Stainless steel	85	65	55	50	40	35	18

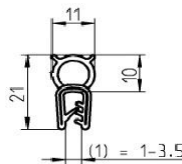
EMI + IP GASKETS



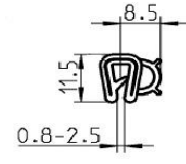
- CONDUCTIVE FABRIC HALF WRAPPED AROUND HIGH QUALITY EPDM GASKETS
- ONE ONLY GASKET : "EMC AND IP" SEALING AT THE SAME TIME
- EASIER TO APPLY, JUST "CLIP ON"
- HIGH ENVIRONMENTAL PROTECTION
- BEST COST EFFECTIVE SHIELDING SOLUTION
- SOFT AND SOLID EPDM WITH STEEL INSERT



P/N: **EIP.1011-10.NC half**

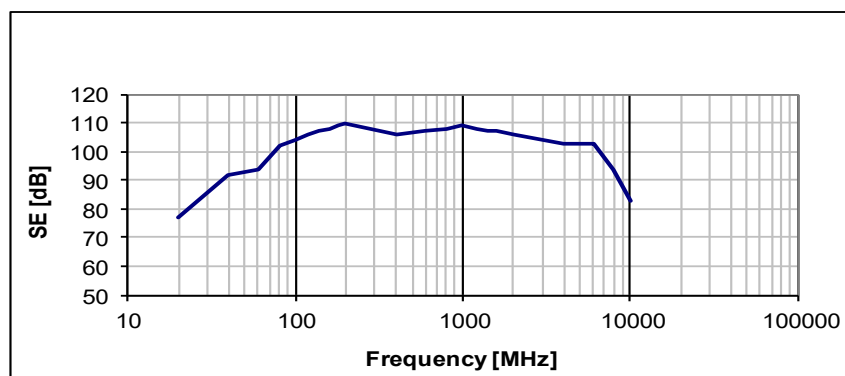


P/N: **EIP.1011-05.NC half**



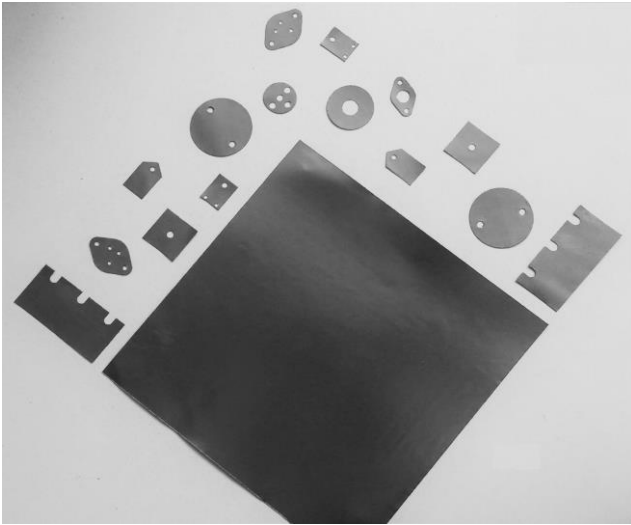
P/N: **EIP.1011-09.NC half**

Typical Shielding Effectiveness



OTHER SIZE, CONFIGURATIONS (according to your drawing) AVAILABLE UPON REQUEST

THERMAL GRAPHITE



- *HIGH THERMAL CONDUCTIVITY - 250 W/mK*
- *IDEAL THERMAL INTERFACE MATERIAL*
- *THIN LAYER TO OPTIMIZE HEAT TRANSFER*
- *FLAME RATING UL94-V0 GRADE*
- *AVAILABLE IN ROLL AND SHEET SIZE*
- *FULL CUSTOMIZED DRAWINGS AND CUT*

Most common use for indoor LED and street lighting, PCB heat transfer from source to heatsink

Technical Characteristics

Specification	Measure Unit	Method	Value
Base material	--	--	natural graphite sheet
Colour	--	visual	black
Thickness	mm	ASTM D347	0,127
Hardness	shore A	ASTM D2240	80
Density	g/cm ³	ASTM D792	1.45
Working temperature	°C	EN 344	-50 to +300
Volume resistivity	Ω/cm	ASTM D257	3*10 ¹³
Conductivity (Vertical)	W/m-K	ASTM D5470	> 10
Conductivity (Horizontal)	W/m-K	ASTM D5470	> 240

OTHER SIZE, CONFIGURATIONS (according to your drawing) AVAILABLE UPON REQUEST

HIGH TEMPERATURE GASKETS



Description

These gaskets are designed especially for application where an high resistance to temperature and critical working conditions are required. In addition, this solution can increase mechanical protection and life-time to standard fibre gaskets.

The complete gasket with fibre and mesh can be supplied or only a mesh-cladding(1 or more layers) can be applied to a customer's material.

P/N HTT or HTR for complete gaskets and RIV for cladding only
Complete with:

2- letters CORE SUFFIX
2- letters CLAD SUFFIX

I.e. HTT.095.GL.SL

Round section, 9.5 mm Stainless steel mesh over glass fibre core

HTR.127.250.CH.IN

Rectangular section, 12.7 mm x 25 mm, Inconel mesh over high temperature ceramic fibre

RIV.250.2SL

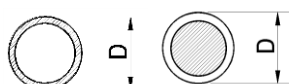
Round section, 25.0 mm diameter, double layer of Stainless steel mesh over Customer's material

- GASKETS DESIGNED TO RESIST HIGH TEMPERATURE CONDITIONS
- GASKET CORE OF GLASS/CERAMIC FIBER COVERED BY A METAL MESH
- APPLICATIONS:
 - constructions of ovens
 - chemical industry
 - aeronautics
 - automotive
- INCREASED PROTECTION FOR STANDARD GLASS/CERAMIC FIBER GASKETS
- AVAILABLE ON REELS OR CUT-TO-LENGTH
- MESH CLADDING ON CUSTOMER'S FIBER UPON REQUEST
- Standard mesh materials:

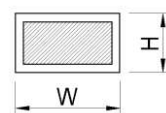
STAINLESS STEEL	(SL)
INCONEL	(IN)
FECRAL	(FCA)
- Core materials:

GLASS FIBRE	(up to 550°C)	(GL)
GLASS FIBRE HT	(up to 750°C)	(GH)
CERAMIC FIBRE	(up to 650°C)	(CL)
CERAMIC FIBRE HT	(up to 1050°C)	(CH)

ROUND SECTION



RECTANGULAR SECTION



OTHER SIZE, CONFIGURATIONS (according to your drawing) AVAILABLE UPON REQUEST

DEMISTERS



Description

“Demisters” or “oil-separators” are filtering elements constructed by a continuous series of corrugated metal mesh layers, with specific characteristics to best suit the final application. These items are mostly used in Oil/Gas Industries but also in many fields of applications (food, pharmaceuticals, marine industry) where can be useful to separate different liquids (like water and oil) or to separate a liquid from a gas.

Complete the P/N with:
number of wires (1 is standard)
2-letters METAL SUFFIX

i.e. **D.025.050.150.014.SL**
25 x 50 x 150 mm, Stainless Steel wire,
single knit, wire diameter 0.14 mm

D.035.055.175.023.2MO
35 x 55 x 175 mm, Monel wire, double knit,
Wire diameter 0.23 mm

- OIL, GAS, WATER AND MIST SEPARATORS,
VACUUM APPLICATIONS FILTERS
- CORRUGATED MESH FULL METAL PRODUCT
- ROUND OR RECTANGULAR SHAPES
- CUSTOMIZED TO THE FINAL APPLICATION
- STAINLESS STEEL WITH DIFFERENT GRADES AS
STANDARD MATERIAL
- SEVERAL ALLOYS AND WIRE DIAMETERS ARE
AVAILABLE UPON REQUEST
- STANDARD DENSITY 270 Kg/m³
- Available materials:
STAINLESS STEEL (SL)
TINNED COPPER CLAD STEEL (TC)
TINNED COPPER (TR)
MONEL (MO)
ALUMINIUM (AL)

P/N	HEIGHT [mm]	WIDTH [mm]	LENGTH [mm]	WIRE Ø [mm]
D.017.080.114.014	17	80	114	0.14
D.018.064.104.014	18	64	104	0.14
D.020.105.130.014	20	105	130	0.14
D.020.122.192.014	20	122	192	0.14
D.025.050.150.014	25	50	150	0.14
D.025.183.375.014	25	183	375	0.14
D.025.240.340.023	25	240	340	0.23

OTHER SIZE, CONFIGURATIONS (according to your drawing) AVAILABLE

LATEST PRODUCTS and DEVELOPMENTS



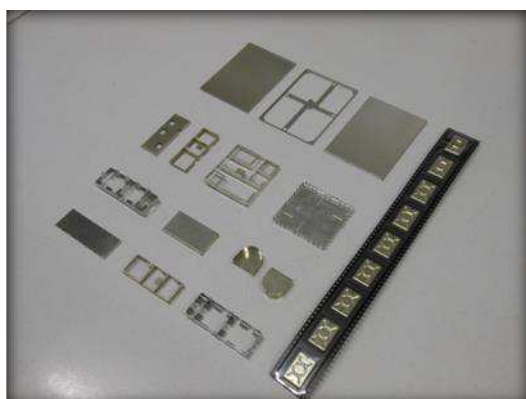
SHIELDING TENTS

Lightweight and quick to install
solutions for testing



FILTER BAGS

Liquid filtering with many grades
and sizes available



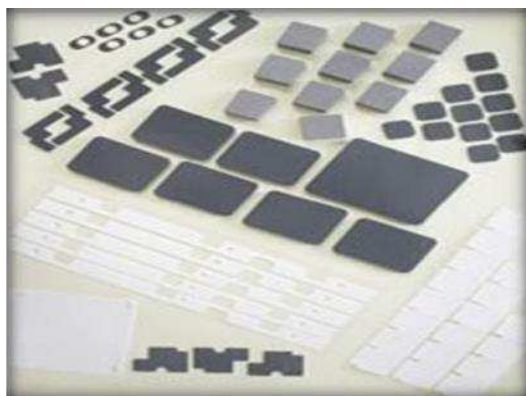
PCB SHIELDING PRODUCTS

Specific and innovative solutions
at board level



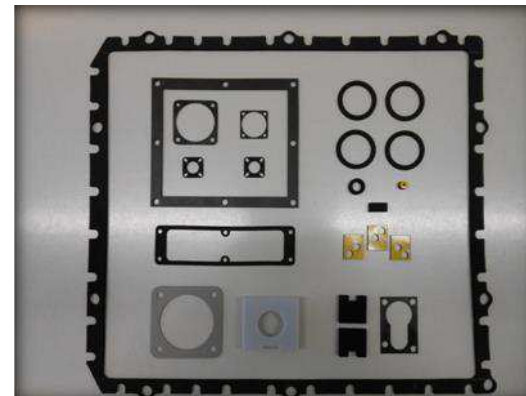
CABLE SHIELDING COVERS

Easy to use solution for your
cable protection



THERMAL MANAGEMENT

Products and support for thermal
applications



NON CONDUCTIVE GASKETS

Elastomers for environmental
protection, customized

FINGERSTOCK GASKETS



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