**Fabric-/Foil over Foam Gaskets** 





















**Fabric-/Foil over foam gaskets** have a **conductive adhesive tape** polyurethane foam core which is available in four different hardness values (32/45/70/150 kg/cm<sup>3</sup>). The foam core is covered either with conductive fabric (copper-nickel coated) or aluminium small parts assembled on carrier foil.

The **mtc** standard portfolio includes a large range of sizes and shapes. Customized dimensions can be supplied at low cost. The material can also be cut to length or modified according individual needs.

As standard the profiles are fitted with a **non-conductive adhesive tape**. The following other options are also avail-

- several adhesive tapes on a single
- adhesive tapes with removal aid
- sheet (STP)

mtc gaskets offer the following prop-

- excellent shielding effectiveness (80-90 dB @ 100 MHz-18 GHz).
- easy processing,
- high abrasion resistance,
- low surface resistance (< 0,05 Ohm).

Regarding aluminium foil over foam gaskets small deformations on the edges develop during production. However, this has no effect on the functionality of the gaskets.



Fabric over foam gaskets are optionally available in a halogen free version. Halogen free gaskets have the same electrical properties as standard gas-

Detailed information are available on request.



Width and height	Tolerance
0,5- 6,3	+/- 0,5
6,3-10,0	+/- 0,7
10,0-16,0	+/- 0,8
16,0-25,0	+/- 1,0
25,0-40,0	+/- 1,3
40,0-63,0	+/- 1,6

Length	Tolerance
5- 150	+/- 0,8
151- 300	+/- 1,3
301-1.200	+/- 2,5
1.201-1.750	+/- 4,7
1.751-2.300	+/- 6,4



#### Fabric-/Foil over foam gaskets provide the following advantages:

- Short delivery time
- CuNi coated fabric (standard), other coatings and aluminium foil available
- Foam available with different hardness values
- Non-adhesive tape as standard, other options on request
- Also available in a halogeen free version

Dimensions in mm (unless otherwise stated).

**mtc**. | 13

**Fabric-/Foil over Foam Gaskets** 

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### Rectangular profiles

Dim. A	Dim. B	Dim. C	Item number
3,0-58,0	0,5-30,0	1,5-55,0	DRE-AxB



## P-shape profiles

Dim. A	Dim. B	Dim. C	Item number
8,0-29,0	3,0-10,0	3,0-25,0	DPT-AxB



### Square profiles

Dim. A	Dim. B	Dim. C	Item number
2,0-17,0	2,0-17,0	1,5-17,0	DQU-AxB



#### L-shape profiles

Dim. A	Dim. B	Dim. C	Item number
5,6	3,0	3,0	DLS-AxB



#### D-shape profiles

Dim. A	Dim. B	Dim. C	Item number
2,0-20,0	1,5-18,0	1,5-18,0	DHR-AxB



## M-shape profiles

Dim. A	Dim. B	Dim. C	Item number	
12,7	9,5	5,0	DMP-AxB	



## Knife-Edge-profiles

Dim. A	Dim. B	Dim. C	Item number
8,0-11,3	2,3-2,7	2,5-6,0	DKE-AxB

Lower side adhesive tape positioning is also available.





#### C-shape profiles

Dimension A	Dimension B	Dimension C	Item number
6,0-10,7	3,5-9,8	2,5-5,0	DCW-AxB

With PET insert





Dimension A	Dimension B	Dimension C	Item number
11,0-14,7	11,0-17,9	5,0-6,0	DCW-AxB

Without PET insert







- Other dimensions on request
- Fabric over foam gaskets are also available in a halogen free version
- Detailed information on our website www.mtc.de/en





# Triangular profiles

Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Item number
9,1-10,0	2,3-3,5	2,5	2,5	2,5	DTR-AxB

#### Type 2



Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Item number
10,0-12,7	3,2-4,5	2,5-3,0	2,5-4,5	2,5-3,0	DTA-AxB

- Adhesive tape D is electrically conductive.
- Optimal for use with μTCA & ATCA plug-in modules.

Dimensions in mm (unless otherwise stated).

Dimensions in mm (unless otherwise stated).















In addition to standard EMC gaskets Clip-on/edge protection profiles have with foam core, mtc also supplies an integrated loop tape and a Uhollow chamber-, clip-on and solid shaped section. They are extremely profiles based on EPDM/rubber. These profiles are especially used in control ing pressed by hand on the coating cabinet doors.

clip-on/edge protection profile is made of expanded rubber and is covered with copper-nickel fabric as standard. A (partial) coating with other metallized 
The profiles can be supplied in any fabric or aluminium foil is available on request.

Hollow chamber profiles can be supplied with or without adhesive tape. They are also available with several adhesive tapes for special applications.

flexible and are installed by simply beedges. The profiles adhere by a clamping effect. No adhesive is required. The core of the hollow chamber and They are weatherproof and resistant to a temperature range from approx. -25°C to approx. 80°C.

> lengths and also on rolls. mtc can provide short delivery times for clip-on/ edge protection and hollow chamber profiles from the standard product range. If you require specific widths and heights or cross sections which must be produced using special tools, a minimum purchase quantity has to be kept.



#### Hollow chamber-, clip-on- and EPDM-profiles provide the following advantages:

- Short delivery time
- Rubber with CuNi coated fabric (standard), other coatings and aluminium foil available
- Hollow chamber profiles can be supplied with or without adhesive tape



## Clip-on profiles

Dimension A	Dimension B	Item Number
8,0	16,0	DAU-BxA





Detailed information on our website www.mtc.de/en



IP/EMC Gaskets (Combi Gaskets)















In addition to EMC and ESD shielding, Arange of core materials (for example protection against environmental influences is often also required. This can variety of hardness values are available be achieved by using so-called IP/EMC for IP/EMC gaskets. The core of the gaskets (combi gaskets), which are profile can be partially or completely mainly used in outdoor areas to protect against moisture, dirt etc.

the housing or control cabinet there are files can easily be manufactured. the following possibilities to achieve an IP/EMI protection:

- use of separate gaskets for EMC and IP (Intrusion Protection) or
- use of combi gaskets

EPDM, expanded rubber, NBR, etc.) in a coated with conductive copper-nickel (CuNi) fabric or aluminium foil. The gaskets are supplied with or without Depending on the design situation of adhesive tape. Custom-specific pro-



### Combi gaskets provide the following advantages:

- Short delivery time
- Partially coated EMI gaskets available for combined IP- and EMI protection
- Available with adhesive tape, also several adhesive tapes possible
- CuNi coated fabric (standard), other coating and aluminium foil on request



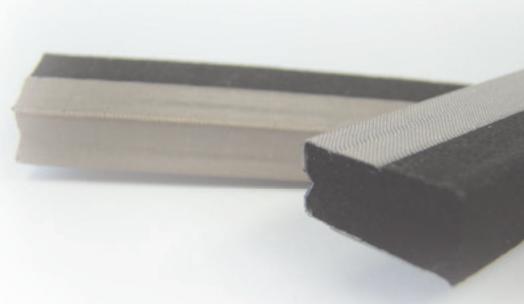
## Combi gaskets

Dim. A	Dim. B	Dim. C	Item number
12,0	6,0	5,0	DKO-AxB

IP/EMC Gaskets (Combi Gaskets)



- Other dimensions on request
- Detailed information on our website www.mtc.de/en



Dimensions in mm (unless otherwise stated),

IP/EMC Gaskets (Combi Gaskets)



Punched Parts according to customer specifications

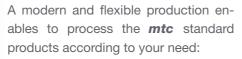












- gaskets for D-Sub connectors
- gaskets for USB connectors
- gaskets for RJ-45 connectors
- gaskets for I/O connectors
- custom-specific punched parts

Punched parts can be supplied in a range of materials. The following base materials are available:

- metal-coated fabrics and fleeces
- foam covered with conductive fabric or aluminium foil
- copper- and aluminium tapes
- conductive silicone sheets
- completely conductive foam

Punched parts made of copper/aluminium tapes are available on roll.

The distance from the edge of the hole to the edge of the gasket should be minimum the thickness of the mate-





#### **Punched parts** provide the following advantages:

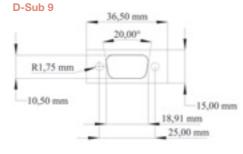
- Short delivery time
- Standard sizes for D-Sub plug connectors
- Customized sizes and cutouts available
- Tooling on the basis of CAD data or drawings
- Optimal for electronic connector panels and I/O-shields, e.g. compliant to ATX- or BTX-standard

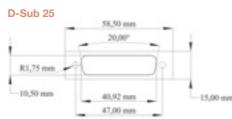


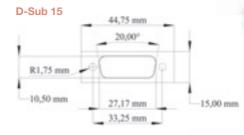
#### Tolerances

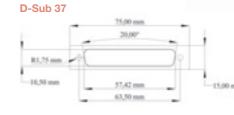
Basic size	Tolerance
Position and shape of punching	+/- 0,5
Shape of gasket	+/- 0,5
Length < 500	+/- 1,0

#### Standard gaskets for D-Sub

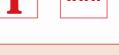












- Other dimensions on request
- Detailed information on our website www.mtc.de/en

Punched Parts according to customer specifications















Conductive polyolefin foam gaskets are perforated at variable intervals be- Foam gaskets can be supplied either as fore being metal coated in metal baths. This completely saturates the foam and large areas, or as customized stampmakes it fully conductive whereby a ings for I/O shielding. good conductive connection between the top and bottom is ensured.

**erties** as a result of the small distance **specifications**. between the holes. Due to an improved Z-axis conductivity, the shielding prop- In addition, a conductive foam is availerties can be increased to over 90 dB.

Conductive foam gaskets are available **UL94 V-1**. in thicknesses from 0,3 to 1,5 mm and can be supplied with a copper-nickel metal coating. They can be used in a temperature range of approx. -10°C to approx. 80°C.

thin panels which are ideal for shielding

In addition to a large section of standard dimensions foam gaskets can also The seals have excellent EMC prop- be offered according to customer

> able in thicknesses of 1,4 an 2,4 mm, which is certified according to



#### **Tolerances**

Basic size		Tolerances
Width		+/- 0,5
Height	0,3-1,0	+/- 0,1
	1,5	+/- 0,3

#### **Conductive Foam**

Width W	Thickness T	Item number
1000,0	0,3-1,5	RCF-WxT
1000,0	1,4 and 2,4	RCFH-V1-BxD



### **Conductive foam provides the following advantages:**

- Flexible and inexpensive solution for contacting areas
- Available with customized cutouts
- Thickness range from 0,3 to 2,4 mm
- CuNi metallized
- Available with conductive tape





- Other dimensions on request
- Detailed information on our website www.mtc.de/en

**Conductive Foam** 

Dimensions in mm (unless otherwise stated).

**Conductive Foam**