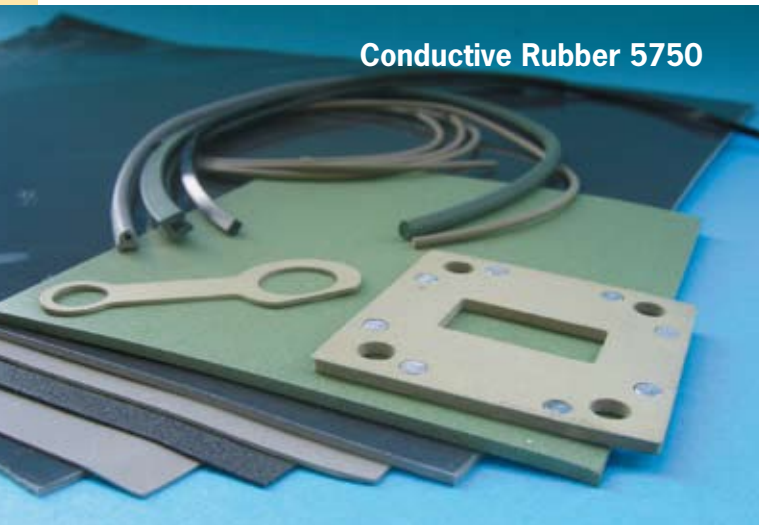


# Conductive rubber 5750

Where less space is available / EMI-IP seal



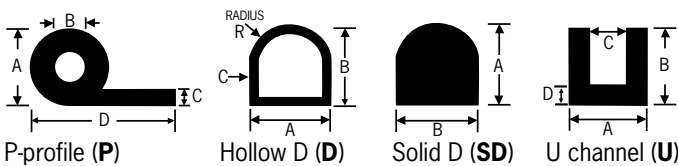
Conductive Rubber 5750

This conductive fabric is a rubber filled with small conductive metal parts to make it conductive.

This heat-proof silicone conductive rubber can create an EMI-proof and watertight seal in narrow constructions. Also for protection against EMP and static electricity. Also available in fluorsilicone conductive rubber for resistance against (hydraulic) oils and fuels. The rubber can be filled with silver, nickel, silvered glass, silvered aluminum or graphite (only for ESD). Also for wave-guide applications.

As it shields high frequencies, conductive rubber offers a shielding effect of 60 dB at 30MHz ~ 10GHz. Owing to its excellent conductivity, grounding and shielding effect, it is well suited for military communication equipment. It can be manufactured in various shapes such as sheets, moulded parts, die-cut, strips, o-rings, etc.

## Profile sizes



P-profile (P)				
A (mm)	B (mm)	C (mm)	D (mm)	Size number
5.0	2.0	1.6	12.7	50-20-16-127
5.0	2.0	1.6	21.6	50-20-16-216
6.4	3.2	1.6	12.7	64-32-16-127
6.4	3.2	1.6	15.9	64-32-16-159
6.4	3.2	1.6	22.2	64-32-16-222
7.9	4.8	1.6	22.2	79-48-16-222
9.1	6.5	1.8	19.8	91-65-18-198

Hollow D (D)				
A (mm)	B (mm)	C (mm)	R (mm)	Size number
4.0	4.0	1.1	2.0	40-40-11-20
4.8	4.7	1.3	2.4	48-47-13-24
6.4	6.4	1.7	3.2	64-64-17-32
7.9	7.9	1.3	4.0	79-79-13-40
7.9	7.9	1.6	4.0	79-79-16-40
12.4	8.2	2.0	6.2	124-82-20-62

Solid D (SD)		
A (mm)	B (mm)	Size number
1.6	1.4	16-14
1.7	1.6	17-16
2.0	2.4	20-24
2.3	2.0	23-20
2.5	1.6	25-16
2.8	3.2	28-32
3.4	3.1	34-31
4.0	3.0	40-30
4.5	4.5	45-45
4.8	4.8	48-48
6.4	6.4	64-64

U channel (U)				
A (mm)	B (mm)	C (mm)	D (mm)	Size number
2.4	2.5	0.9	0.8	24-25-09-08
3.2	2.8	0.7	1.3	32-28-07-13
3.2	5.7	0.5	1.9	32-57-05-19
4.0	4.0	1.6	1.2	40-40-16-12
4.5	4.0	1.2	1.9	45-40-12-19
8.3	6.0	1.6	2.9	83-60-16-29

## Benefits

- Excellent conductivity throughout the surface
- Excellent electromagnetic shielding effect
- Easy die-cutting, kiss-cutting and slitting
- Temperature range -60 to +220 °C

## Technical properties

Typical properties	5750	5760
Filler	Ag/Cu	Ni-Graphite
Base polymer	Silicone	Silicone
Width (mm)	210 x 300 (Larger sizes on request)	
Thickness (mm)	0.2 to 3 (thicker on request)	
Elongation, %, min.	90	50
Flame resistance, UL94 (horizontal)	HB	HB
Flame resistance, UL94 (vertical)	V-0	V-0
Volume resistance, Ohm-cm (expression of conductivity)	0.2	0.2
<b>Hardness</b>		
Shore A:	40	30
Shore OO:	85	80
Tensile strength, psi, min.	90	50
<b>Shielding performance (dB)</b>		
100 MHz	120	100
500 MHz	120	100
1 GHz	110	110
10 GHz	85	85
See guarantee		

## Other material options (on request):

- Fluorosilicone with nickel graphite particles (fuel resistant)
- Silicone with nickel particles for aluminium parts
- Fluorosilicone with nickel particles
- Silicone with nickel plated aluminium particles
- Fluorosilicone with silver plated aluminium particles

## Available as:

- Sheets • Moulded parts • Die-cut, or flash cut • Strip

## Example

For **Ag/Cu Silicone** conductive rubber, as a sheet (S), thickness 0.5 mm, dimensions 50 x 250 mm, use part number: **5750-S-050-50-250**

Ordering information

