

CONDUCTIVE RUBBER PROFILES

Electrically conductive rubber profiles in general are known for its excellent weather, oxidation and ozone resistance

Silver plated aluminium conductive rubber profiles **5750P**



Conductive carbon filled rubber profiles **5755P**



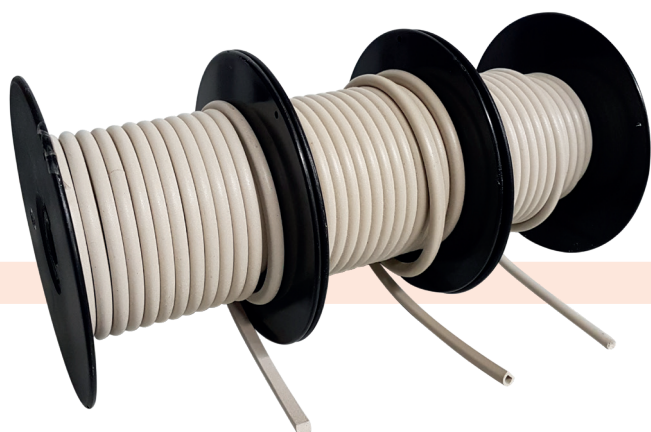
Nickel/graphite filled conductive rubber profiles **5760P**



The rubber in these profiles is made conductive by means of small conductive metal particles, distributed throughout the rubber. It can provide an EMI-proof and a pressure watertight seal in narrow constructions.

Electrically conductive rubbers are typically used for EMI applications. Also used for EMP protection, wave-guide applications and against static electricity. The rubber can be filled with silver, nickel, silvered glass, silvered aluminium or graphite (only for ESD). Commercial EMI applications often call for **Nickel/graphite filled conductive rubber profiles (5760P)** or **Conductive carbon filled rubber profiles (5755P)** due to costs, whereas military and aerospace applications often call for **Silver plated aluminium conductive rubber profiles (5750P)** to meet Mil-G-83528C specifications. In military or aerospace, fluorosilicone versions may also be used for its chemical and fuel resistance.

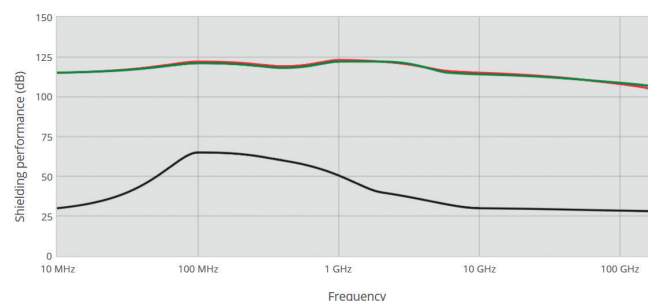
As the material shields high frequencies, electrically conductive rubber shows a shielding effect of 60 dB at 30MHz ~ 10GHz. Due to its excellent conductivity, grounding and EMI shielding effect, it is well suited for military communication equipment. The rubber can be manufactured in various shapes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



BENEFITS

- Excellent conductivity throughout the surface
- Excellent electromagnetic shielding effect
- Easy die-cutting, kiss-cutting and slitting
- Temperature range -60 to +185°C (under certain circumstances, tolerance can be up to 220°C)

SHIELDING PERFORMANCE*

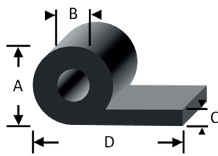


- 5750 - Silver plated aluminium
- 5755 - Graphite
- 5760 - Nickel Graphite

TECHNICAL DETAILS AND SPECIFICATIONS

	5750P Silver plated aluminium	5755P Graphite	5760P Nickel Graphite
Conductive material	Ag/Al	Graphite	Ni-graphite
Filler	Ag/Al	Graphite	Ni-graphite
Base polymer	Silicone	Silicone	Silicone
Elongation, %, min.	90	50	50
Volume resistance, Ohm-cm (expression of conductivity)	0.008	1.8	0.05
Operating Temp	+125	+160	+160
Range (C)	-55	-50	-55
Color	Dark Tan	Black	Dark Gray
Shore Hardness (A +/-5) ASTM D2240	65	60	60
Volume Resistivity (ohms) ASTM D991	0.005	2.2	0.04
Specific Gravity (+/- 0.25)	3.5	2.0	2.0

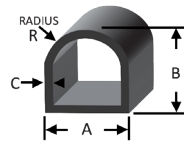
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P PROFILE (P)

Available for **5750P + 5755P + 5760P**

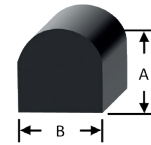
Size	A (mm)	B (mm)	C (mm)	D (mm)
5.0X2.0X1.6X12.7	5.0	2.0	1.6	12.7
5.0X2.0X1.6X21.6	5.0	2.0	1.6	21.6
6.4X3.2X1.6X12.7	6.4	3.2	1.6	12.7
6.4X3.2X1.6X15.9	6.4	3.2	1.6	15.9
6.4X3.2X1.6X22.2	6.4	3.2	1.6	22.2
7.9X4.8X1.6X22.2	7.9	4.8	1.6	22.2
9.1X6.5X1.8X19.8	9.1	6.5	1.8	19.8



HOLLOW D PROFILE (D)

Available for **5750P + 5755P + 5760P**

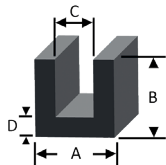
Size	A (mm)	B (mm)	C (mm)	R (mm)
4.0X4.0X1.1X2.0	4.0	4.0	1.1	2.0
4.8X4.7X1.3X2.4	4.8	4.7	1.3	2.4
6.4X6.4X1.7X3.2	6.4	6.4	1.7	3.2
7.9X7.9X1.3X4.0	7.9	7.9	1.3	4.0
12.4X8.2X2.0X6.2	12.4	8.2	2.0	6.2



SOLID D (SD)

Available for **5750P + 5755P + 5760P**

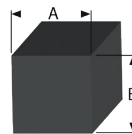
Size	A (mm)	B (mm)
1.6X1.4	1.6	1.4
1.7X1.6	1.7	1.6
2.0X2.4	2.0	2.4
2.3X2.0	2.3	2.0
2.5X1.6	2.5	1.6
2.8X3.2	2.8	3.2
3.4X3.1	3.4	3.1
4.0X3.0	4.0	3.0
4.0X4.0	4.0	4.0
4.5X4.5	4.5	4.5
4.8X4.8	4.8	4.8



U CHANNEL PROFILE (U)

Available for **5750P + 5755P + 5760P**

Size	A (mm)	B (mm)	C (mm)	D (mm)
2.4X2.5X0.9X0.8	2.4	2.5	0.9	0.8
3.2X2.8X0.7X1.3	3.2	2.8	0.7	1.3
3.2X5.7X0.5X2.0	3.2	5.7	0.5	2.0
4.0X4.0X1.6X1.2	4.0	4.0	1.6	1.2
4.5X4.0X1.2X1.9	4.5	4.0	1.2	1.9
8.3X6.0X1.6X2.9	8.3	6.0	1.6	2.9



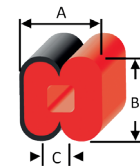
RECTANGULAR PROFILE (R)

Available for **5750P + 5760P**

Size	A (mm)	B (mm) Thickness of
...X...	Your required width in mm	1.0, 1.2, 1.5, 1.7, 2.0, 2.5, 3.0

Available for **5755P**

Size	A (mm)	B (mm) Thickness of
...X...	Your required width in mm	1, 2, 3, 4, 5, 10



DD PROFILE (DD)

Available for **5750P + 5760P**

Size	A (mm)	B (mm)	C (mm)
4.57X4.75X1.65	4.57	4.75	1.65

ORDER EXAMPLE

Series	Profile	Size number	Tape code	Length (meters)
5750P: Silver plated aluminium profile 5755P: Carbon filled conductive rubber profiles 5760P: Nickel/graphite filled conductive rubber profiles	P : P Profile D : Hollow D profile SD : Solid D profile U : U channel profile DD : DD profile with water seal R : Rectangular profile	Specify the type from the tables, for example 5.0X2.0X1.6X12.7	02 : Without self-adhesive 03 : With conductive self-adhesive	