

Knitted Wire Gaskets

ALL-METAL WIRE MESH GASKETS 1



Description Knitex all metal EMI shielding gaskets are constructed from knitted wire mesh which has many interlocked spring like loops making it highly resilient. It is available in round, rectangular, 'P' section, and double core with fin profiles as illustrated in the tables below. Knitex produces all metal gaskets in the widest range of materials available on the market including Monel, Tin Plated Copper Clad steel (SN-FE-CU), Tinned Copper, Stainless Steel, Silver Clad Copper, Aluminium, Copper and others such as Nickel Plated Copper and Phosphor Bronze to special order

Application All metal gaskets are frequently used on cast, machined and sheet metal enclosures and are particularly suitable for groove mounting where they are held in place by sidewall friction. They may also be fixed in place by gluing, riveting, spot welding, soldering and via the fin on 'P' section and double core with fin gaskets by means of a metal plate. Being all-metal they can also operate at very high temperatures.

Generally they should not be used where doors or access panels are frequently opened as a compression set may form after several openings. All metal gaskets also do not form a weather or pressure seal and in these situations the Knitex range of mesh covered elastomer gaskets should be considered.

Materials of Construction - Wires Knitex EMI shielding materials can be manufactured from any metal that can be drawn into a filament. However the majority of shielding requirements can be satisfied by using the materials listed in the table below

| | | |
|---|--------|----------|
| Monel (BS 3075-NA13) | 0.11mm | MO |
| Tin Plated Copper Clad Steel (SN-FE-CU) | 0.11mm | SN-FE-CU |
| Stainless Steel (AISI 304) | 0.11mm | SS |
| Tinned Copper (BS 4109 with 0.7-1 micron tin plate) | 0.11mm | TC |
| Silver Clad Copper (BS 4190 0.7-1 micron silver cladding) | 0.12mm | SCC |
| Nickel Plated Copper | 0.15mm | NI-CU |
| Aluminium (ALMG5) | 0.14mm | AL |
| Copper (BS 4109) | 0.12mm | CO |

Other materials are available to special order such as Phosphor Bronze and Brass.

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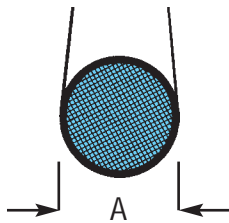
DATA SHEET

Knitted Wire Gaskets

D A T A S H E E T

ALL-METAL WIRE MESH GASKETS 2

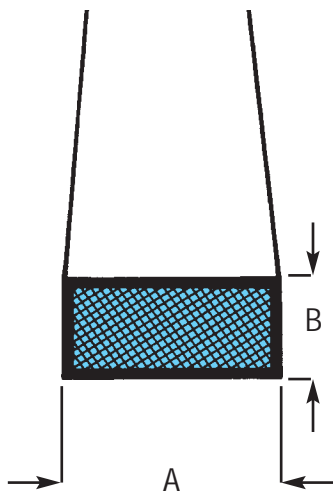
Circular Section



| DIAMETER A (mm) | PART NUMBER | DIAMETER A (mm) | PART NUMBER |
|-----------------|-------------|-----------------|-------------|
| 2 | 8601 | 7 | 8603 |
| 3 | 8024 | 8 | 8030 |
| 4 | 8602 | 9 | 8604 |
| 5 | 8037 | 10 | 8605 |
| 6 | 8083 | 13 | 8606 |

General tolerances on gasket dimensions +/- 0.8mm. Further details on application.

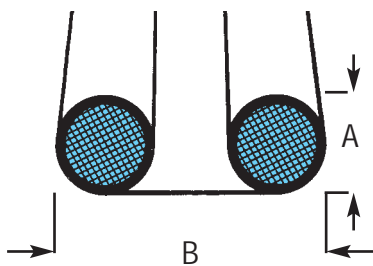
Rectangular section



| WIDTH A (mm) | THICKNESS B (mm) | PART NUMBER | WIDTH A (mm) | THICKNESS B (mm) | PART NUMBER |
|--------------|------------------|-------------|--------------|------------------|-------------|
| 2 | 2 | 8615 | 13 | 8 | 8630 |
| 2 | 3 | 8149 | 13 | 10 | 8631 |
| 3 | 3 | 8066 | 16 | 2 | 8632 |
| 5 | 2 | 8616 | 16 | 3 | 8120 |
| 5 | 3 | 8143 | 16 | 4 | 8633 |
| 5 | 4 | 8617 | 16 | 6 | 8634 |
| 5 | 5 | 8618 | 16 | 8 | 8635 |
| 6 | 2 | 8619 | 16 | 10 | 8636 |
| 6 | 3 | 8015 | 19 | 2 | 8637 |
| 6 | 4 | 8620 | 19 | 3 | 8185 |
| 6 | 5 | 8621 | 19 | 4 | 8638 |
| 6 | 6 | 8622 | 19 | 6 | 8639 |
| 9 | 2 | 8623 | 19 | 8 | 8640 |
| 9 | 3 | 8035 | 19 | 10 | 8641 |
| 9 | 4 | 8624 | 32 | 2 | 8642 |
| 9 | 6 | 8625 | 32 | 3 | 6050 |
| 9 | 8 | 8626 | 32 | 4 | 8643 |
| 13 | 2 | 8627 | 32 | 6 | 8644 |
| 13 | 3 | 8014 | 32 | 8 | 8645 |
| 13 | 4 | 8628 | 32 | 10 | 8646 |
| 13 | 6 | 8629 | - | - | - |

General tolerances on gasket dimensions +/- 0.8mm. Further details on application.

Double core with fin



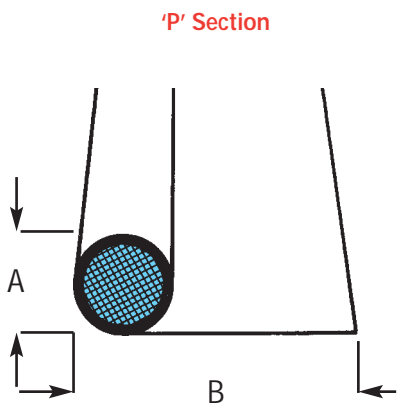
| DIAMETER A (mm) | OVERALL WIDTH B (mm) | PART NUMBER | DIAMETER A (mm) | OVERALL WIDTH B (mm) | PART NUMBER |
|-----------------|----------------------|-------------|-----------------|----------------------|-------------|
| 3 | 13 | 8654 | 5 | 22 | 8661 |
| 3 | 16 | 8655 | 5 | 25 | 8662 |
| 3 | 19 | 8656 | 6 | 19 | 8663 |
| 3 | 22 | 8657 | 6 | 22 | 8664 |
| 3 | 25 | 8658 | 6 | 25 | 8665 |
| 5 | 16 | 8659 | 10 | 25 | 8666 |
| 5 | 19 | 8660 | 10 | 32 | 8667 |

General tolerances on gasket dimensions +/- 0.8mm. Further details on application.

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ALL-METAL WIRE MESH GASKETS 3



| DIAMETER A (mm) | OVERALL WIDTH B (mm) | PART NUMBER | DIAMETER A (mm) | OVERALL WIDTH B (mm) | PART NUMBER |
|-----------------|----------------------|-------------|-----------------|----------------------|-------------|
| 3 | 11.5 | 8026 | 7 | 25 | 8719 |
| 3 | 16 | 8705 | 8 | 13 | 8720 |
| 3 | 19 | 8706 | 8 | 16 | 8721 |
| 4 | 13 | 8707 | 8 | 19 | 8722 |
| 4 | 16 | 8708 | 8 | 17 | 8008 |
| 4 | 19 | 8709 | 8 | 25 | 8723 |
| 5 | 13 | 8710 | 9 | 16 | 8724 |
| 5 | 16 | 8711 | 9 | 19 | 8725 |
| 5 | 16.5 | 8003 | 9 | 25 | 8726 |
| 5 | 25 | 8712 | 10 | 13 | 8727 |
| 6 | 13 | 8713 | 10 | 16 | 8728 |
| 6 | 16 | 8714 | 10 | 19 | 8729 |
| 6 | 19 | 8715 | 10 | 25 | 8730 |
| 6 | 25 | 8716 | 13 | 13 | 8731 |
| 6 | 28 | 8020 | 13 | 16 | 8732 |
| 7 | 16 | 8717 | 13 | 19 | 8733 |
| 7 | 19 | 8718 | 13 | 25 | 8734 |

General tolerances on gasket dimensions +/- 0.8mm. Further details on application.

Additional Information For effective shielding all metal gaskets should be compressed by 15-30% of its height. Samples are available generally free of charge. Please contact the sales department for further information. Special resilient stainless steel hollow core gaskets have also been developed by Knitex and are available in diameters from 3mm up to 15mm. Delivery lead times are quantity dependent but emergency deliveries can often be organised within a few days or less. Custom made mesh profiles in other sizes not shown in tables are also available.

Ordering To order, simply state the quantity required, part number, material reference and if you have any special roll length or packaging requirements. Cut to length and fabricated picture frame type gaskets are also available.

Example of how to order a standard Knitex gasket:

Gasket Type 8143/MO = a rectangular section 5mm x 3mm and is constructed from Monel.

 **KnitMesh**

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