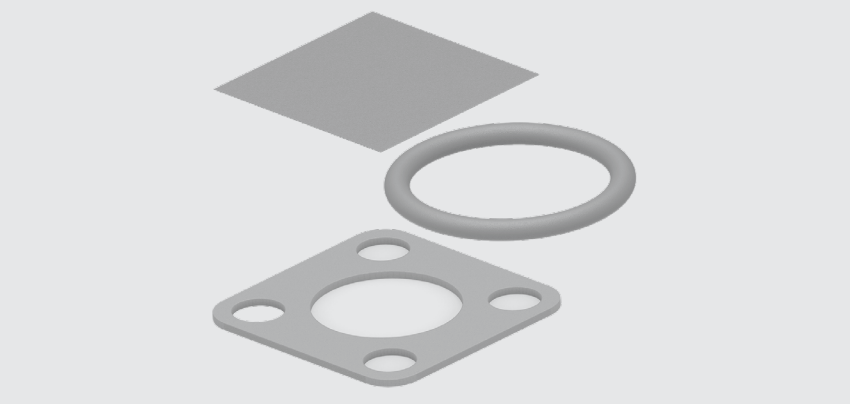
LOW HARDNESS CONDUCTIVE ELASTOMER



SILICONE NICKEL GRAPHITE SOFT (SNGS) ELASTOMER

PRODUCT BENEFITS

- 40 shore hardness enables effective sealing and shielding with low closure force
- Supports flexible design by accommodating component height variation
- Enables custom profiles and geometries through availability in molding and extrusion grades
- Supports environmental and regulatory requirements with a PFAS free extrusion option
- Broadens application possibilities requiring soft, compliant conductive elastomer solutions

The Low Hardness Conductive Elastomer is a silicone-based nickel graphite (SNGS) material engineered to provide effective EMI shielding and environmental sealing where soft closure force is critical. With a hardness of 40 shores, the material is soft, enabling it to compress easily under low force and conform to surfaces with height variation. This allows reliable sealing and shielding performance without placing stress on sensitive components or requiring high compression loads, while still maintaining robust electrical and mechanical integrity. Available in both extrusion and molding grades, the material enables customized profile design for demanding applications.

PHYSICAL AND MECHANICAL PROPERTIES

- Base material: Silicone Nickel Graphite Soft (SNGS)
- Material grades: Molding grade and Extrusion grade
- Hardness: 40 Shore
- Operating temperature range: –55°C to +150°C
- Compression set: 20%
- Tear strength: 8 N/mm
- Tensile strength: 0.8 MPa
- Elongation: 150%
- Specific Gravity (±13%): 1.85

SPECIFICATIONS

- Volume resistivity: 0.2 Ω/mm
- **Shielding effectiveness**:
  - Electric field: 200 kHz – 40 GHz
  - Magnetic field: 10 kHz – 30 MHz
- Shielding effectiveness per MIL DTL 83528 (Section 4.5.12)
- **Environmental compliance**: RoHS compliant

MARKETS & APPLICATIONS

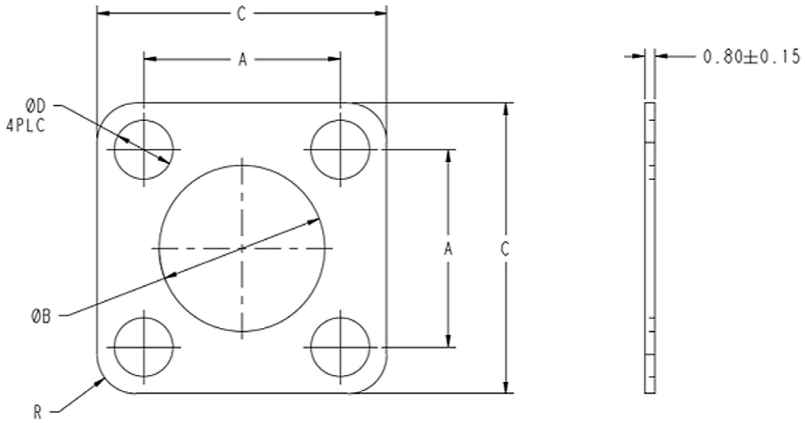
- Automotive
- Data & Connectivity
- Medical
- Aerospace, Defense & Military
- Energy
- ADAS and automotive electronic enclosures
- Infotainment systems and EV battery packs
- ·4G/5G connectivity equipment and data center hardware
- Medical devices and life-support equipment
- Aerospace, defense, and communication systems
- Wind turbine and industrial energy control systems

PRODUCT PERFORMANCE

- Consistent EMI shielding effectiveness across specified electric and magnetic field frequency ranges
- Stable electrical conductivity under compression across the operating temperature range
- Mechanical compliance maintains seal integrity on uneven surfaces
- Low compression set and high elasticity support long-term durability
- Reliable performance from –55°C to +150°C in demanding environments

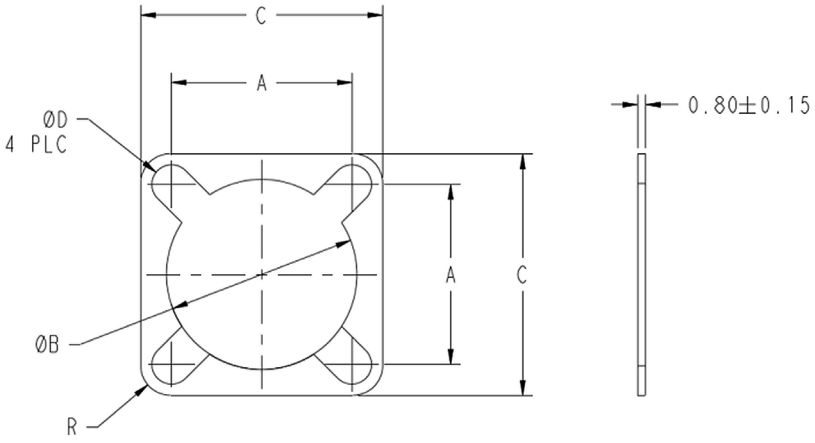
DIMENSIONS

92 Series Connector Gaskets



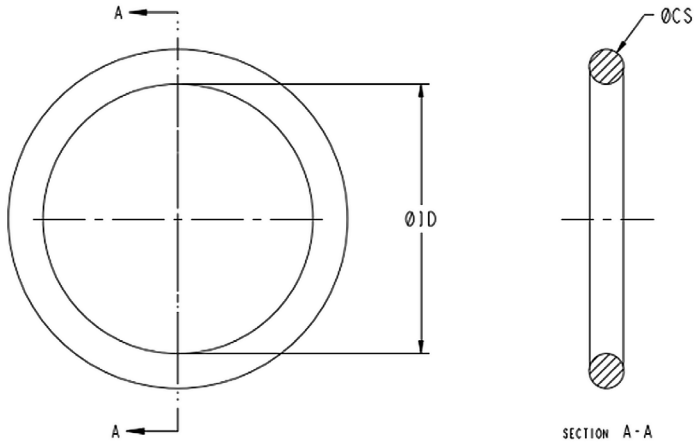
Shell Size	A±0.4	ØB±0.2	C±0.5	ØD±0.2	R±0.5	Part Number
48	66.68	76.99	82.55	6	4.5	2568065-1
44	60.33	70.64	76.2	6	4.5	2568064-1
40	55.58	61.93	69.85	6	4.5	2568063-1
36	49.23	55.58	63.5	6	4.5	2568062-1
32	44.45	50.8	57.15	6	4.5	2568061-1
28	39.67	44.45	50.8	5.5	4.5	2568060-1
24	34.93	38.1	44.45	5.5	4.5	2568059-1
22	31.75	34.93	41.28	5	4.5	2568058-1
20	29.36	31.75	38.1	5	4.5	2568057-1
18	26.97	28.58	34.93	5	4.5	2568056-1
16	24.61	25.4	32.54	4.5	5.5	2568055-1
14	23.01	22.23	30.18	4.5	5	2568054-1
12	20.65	19.05	27.79	4.5	4	2568053-1
10	18.26	15.88	25.4	4.5	3	2568052-1
8	15.09	12.7	22.23	4.5	3	2568015-1
48	66.68	76.99	82.55	6	4.5	2561445-1
44	60.33	70.64	76.2	6	4.5	2561444-1
40	55.58	61.93	69.85	6	4.5	2561443-1
36	49.23	55.58	63.5	6	4.5	2561442-1
32	44.45	50.8	57.15	6	4.5	2561441-1
28	39.67	44.45	50.8	5.5	4.5	2561440-1
24	34.93	38.1	44.45	5.5	4.5	2561439-1
22	31.75	34.93	41.28	5	4.5	2561438-1
20	29.36	31.75	38.1	5	4.5	2561437-1
18	26.97	28.58	34.93	5	4.5	2561436-1
16	24.61	25.4	32.54	4.5	5.5	2561435-1
14	23.01	22.23	30.18	4.5	5	2561434-1
12	20.65	19.05	27.79	4.5	4	2561433-1
10	18.26	15.88	25.4	4.5	3	2561432-1
8	15.09	12.7	22.23	4.5	3	2561431-1

93 Series Connector Gaskets



Shell Size	Series	Colour	A±0.4	ØB±0.2	C±0.5	ØD±0.2	R±0.5	Part Number
25	III	Light Grey	38.1	44.7	47.63	4.5	5	2568014-1
23	III	Light Grey	34.93	41.53	44.45	4.5	5	2568013-1
21	III	Light Grey	31.75	38.35	41.28	4	4	2568012-1
19	III	Light Grey	29.36	35.18	38.1	4	4.5	2568011-1
17	III	Light Grey	26.97	32.25	34.32	4	3.5	2568010-1
15	III	Light Grey	24.61	29.05	31.95	4	3.5	2568009-1
13	III	Light Grey	23.01	25.78	29.29	4	3.5	2568008-1
11	III	Light Grey	20.62	22.48	26.92	4	3.5	2568007-1
9	III	Light Grey	18.26	19.3	24.51	4	1.5	2568006-1
25	III	Light Grey	38.1	44.7	47.63	4.5	5	2561430-1
23	III	Light Grey	34.93	41.53	44.45	4.5	5	2561429-1
21	III	Light Grey	31.75	38.35	41.28	4	4	2561428-1
19	III	Light Grey	29.36	35.18	38.1	4	4.5	2561427-1
17	III	Light Grey	26.97	32.25	34.32	4	3.5	2561426-1
15	III	Light Grey	24.61	29.05	31.95	4	3.5	2561425-1
13	III	Light Grey	23.01	25.78	29.29	4	3.5	2561424-1
11	III	Light Grey	20.62	22.48	26.92	4	3.5	2561423-1
9	III	Light Grey	18.26	19.3	24.51	4	1.5	2561422-1

98 Series O Ring



Mil Spec.	Unit Packaging Qty	Material	Shell Size	ØCS	ØID	Part Number
	10	SNGS	25	2.6±0.13	47.3±0.38	2561421-1
	10	SNGS	23/24	2.6±0.13	44.1±0.38	2561420-1
	10	SNGS	21/22	2.6±0.13	40.9±0.38	2561419-1
	10	SNGS	19/20	2.6±0.13	37.8±0.25	2561418-1
	10	SNGS	17/18	1.8±0.1	34.7±0.25	2561417-1
2	10	SNGS	15/16	1.8±0.1	31.5±0.25	2561416-1
	10	SNGS	13/14	1.8±0.1	28.3±0.25	2561415-1
	10	SNGS	11/12	1.8±0.1	25.1±0.25	2561414-1
	10	SNGS	9/10	1.8±0.1	20.4±0.25	2561413-1
	10	SNGS	8	1.8±0.1	17.2±0.25	2561412-1
	10	SNGS	6	1.8±0.1	14±0.25	2561411-1

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