

EMI Conductive Elastomer CSM Series

Product Technical Datasheet



General Introduction

The electrically conductive elastomers are composed by adding conductive particles into elastomer system. They provide highly conductive, resilient gasketing functions for EMI sealing as well as pressure and environmental sealing. Conductive elastomers are used for shielding electronic enclosures against radiated electromagnetic interference (EMI). Usually, the shielding system consists of a conductive gasket sandwiched between a metal housing and cover. The primary function of these gaskets is to provide sufficient electrical conductivity across the housing/gasket/cover junction to meet grounding and EMI shielding requirements, as well as prevent intrusion of the moisture into the enclosure.

In practical case, the electric enclosure consists of cover and housing, these two normally have flat, but rigid surfaces. When they are bonded together, slight surface irregularities on each surface prevent them from occluding completely at all points. These irregularities may be extremely minor, however they may work as leakage path for gas or liquid under pressure, and also for high frequency radiated electromagnetic energy. Such problem remains in flange sealing even when very high closure force is applied. However, when a conductive elastomer gasket is installed between the mating surfaces, and even minimal pressure is applied, the flexible elastomer gasket conforms to the irregularities in both mating surfaces. As a result, all surface irregularities and potential leak paths across the junction area are sealed completely against moisture and gas from environment, in addition, high frequency electromagnetic radiated energy penetration can be also attenuated.

JONES has her own technology and developed different series of conductive elastomer products to meet various industrial applications. Advantages, such as excellent EMI shielding, excellent mechanical performance, great corrosion resistance, and easy mounting can be combined into product solution according to customer specification. New products will be continued to be developed to satisfy your need by deep learning your engineering design. JONES offer products available in the following types:

- Extruded strips
 - Profiles
- Molded shapes
 - O-rings
 - Intricate parts
- Co-extruded strips
- Co-molded parts

Installation Guide

As a general rule we recommend a gland fill, e.g. gasket width vs. groove width, of 85% ~ 95% for optimum shielding effectiveness. However, for critical applications that require both shielding and environmental sealing, a 95% gland fill is suggested. In addition, determining the height of the flange, the deflection of elastomer gasket is very important factor to be considered. Deflection is defined as the change in the cross-sectional height of a gasket under compressive load and is a function of material hardness and profile. In general, to achieve sealing and EMI shielding, the minimum deflection of gasket should be greater than 10%. The optimum deflection should be chosen based on different configuration of elastomer gasket, its range varies from 5% for flat strip, 20-25% for solid O type gasket, 15 ~ 20% for solid D type, 20 ~ 50% for hollow part.

Material Specification

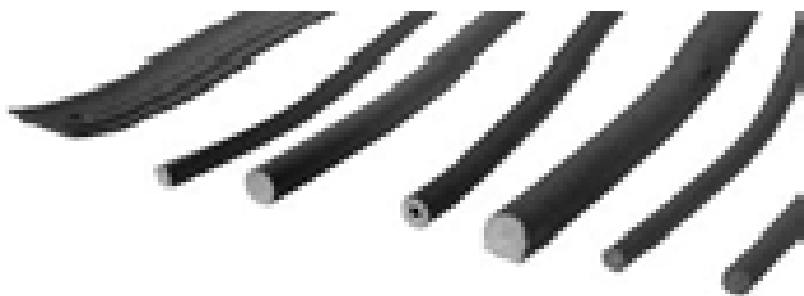
Conductive elastomer has different electrical conductive property due to different conductive filler. JONES-CSM Series 1 is filled with Silver Plated Glass(Ag/G), Military M Grade conductive elastomer has great performance-price ratio, JONES-CSM Series 2 is filled with Silver Plated Aluminum (Ag/Al), its Military B Grade products are suitable for outdoor application, it has lowest volume conductivity and best EMI shielding effectiveness, JONES-CSM Series 6 is filled with Nickel Plated Graphite (Ni/C), although its volume resistance is 0.1Ohm.cm, it still has great EMI shielding performance, and excellent corrosion resistance, low cost solution, suitable for crucial environment.

Jones Material Number			11-1	11-2	11-6
MIL-DTL-83528C Material Type			M	B	
Elastomer Type			SIL	SIL	SIL
Filler Material			Ag/G	Ag/Al	Ni/C
Ag=Silver, Al=Aluminium, G=Glass, Ni/C=Nickel-coated Graphite, C=Carbon					
Electrical Properties	Tolerance	Test Method			
Volume Resistivity(ohm-cm)(without PSA)	Max	MIL-DTL-83528C	0.01	0.008	0.1
200 KHz (H-Field)	Min	MIL-DTL-83528C	50	60	50
100 MHz (E-Field)			100	115	100
500 MHz (E-Field)			100	110	100
1 GHz (Plane Wave)			90	105	90
2 GHz (Plane Wave)			90	105	90
10 GHz (Plane Wave)			80	100	90
Electrical Stability					
After Heat Aging(ohm-cm)	Max	MIL-DTL-83528C	0.02	0.01	0.15
After Break(ohm-cm)			0.01	0.015	0.15
During Vibration			N/A	0.012	0.1
After Vibration(ohm-cm)			N/A	0.008	0.1
After Exposure to EMP (ohm-cm)(0.9KAmp/inch of perimeter)EMP	Min		N/A	>0.9	N/A
Physical Properties					
Specific Gravity	±0.25	ASTM D792	1.9	2.0	2.1
Hardness(Shore A)	±7	ASTM D2240	65	65	65
Tensile Strength(PSI)	Min	ASTM D412	200	200	200
Elongation(%)	Min	ASTM D412	100	100	100
Tear Strength(PPI)	Min	ASTM D624	30	30	30
Compression Set(%)	Max	ASTM D395 B	30	30	30
Operation Temperature(°C)	Max	ASTM D1329	160	160	160
	Min		-55	-55	-55

Jones Material Number				11-7Series						
Properties	Unit	Tolerance	Standard	Formula Number						
				40-728	41-347	40-742	41-348	41-337	41-374	
Hardness	Shore A	±5	ASTM D 2240	35	35	50	60	70	50	
Color	/	/	/	Blue	Grey	Black	Black	Black	Orange	
Density	g/cm ³	±0.25	ASTM D 792	1.1	1.2	1.2	1.3	1.3	1.2	
Tensile strength	Mpa	Min	ASTM D 412	3.5	3	5	5.5	8	3	
Elongation at break	%	Min	ASTM D 412	600	550	300	500	800	250	
Tear strength	kN/m	Min	ASTM D 624	8	9	10	14	20	8	
Operating Temp.	°C	/	ASTM D 1329	-55~160	-55~160	-55~160	-55~160	-55~160	-55~160	
Compression set (120°C*7d*50%)	%	Max	ASTM D 395 B	10	15	10	30	20	10	
Flaming retardance	/	/	UL 94	HB	V0	HB	V1	HB	HB	
Processing	/	/	/	Mold						Extruded

Jones Material Number				11-7Series						
Properties	Unit	Tolerance	Standard	Formula Number						
				41-376	41-53	41-402	41-378	41-389	41-355	
Hardness	Shore A	±5	ASTM D 2240	50	50	50	60	50	60	
Color	/	/	/	Grey	Black	Grey	Black	Orange	Blue	
Density	g/cm ³	±0.25	ASTM D 792	1.3	1.2	1.2	1.2	1.2	1.2	
Tensile strength	Mpa	Min	ASTM D 412	3.5	5	4.5	4	3.5	5	
Elongation at break	%	Min	ASTM D 412	250	500	400	300	250	300	
Tear strength	kN/m	Min	ASTM D 624	10	10	9	8	8	8	
Operating Temp.	°C	/	ASTM D 1329	-55~160	-55~160	-55~160	-55~160	-55~160	-55~160	
Compression set (120°C*7d*50%)	%	Max	ASTM D 395 B	10	10	10	20	30	30	
Flaming retardance	/	/	UL 94	V0	HB	HB	HB	HB	HB	
Processing	/	/	/	Extruded				Co-extruded		

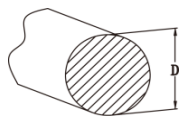
Extruded Conductive Rubber Material



Description

Continuous extrusion technique is adopted to produce such products, extruded elastomer types has properties, such as continued length, especially for large scale applications. This type of products can be made with customized cross section, and offers flexibility to meet different application requirements.

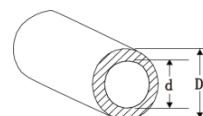
Extruded solid O strips



Dimension

P/N	Diameter (mm)	Rule of Thumb Groove Dimensions	
		Width(mm)	Depth(mm)
11-X01-001-0000	1.02	1.55	0.74
11-X01-002-0000	1.27	1.73	0.97
11-X01-003-0000	1.78	2.08	1.46
11-X01-004-0000	2.03	2.34	1.65
11-X01-005-0000	2.36	2.64	1.93
11-X01-006-0000	2.62	2.90	2.13
11-X01-007-0000	3.18	3.43	2.59
11-X01-008-0000	4.06	4.27	3.33
11-X01-009-0000	4.78	4.95	3.91
11-X01-010-0000	1.35	1.78	1.04
11-X01-011-0000	1.57	1.96	1.24
11-X01-012-0000	3.02	3.25	2.49
11-X01-013-0000	3.53	3.73	2.9
11-X01-014-0000	2.16	2.46	1.75
11-X01-015-0000	2.5	2.77	2.06
11-X01-016-0000	3	3.3	2.46
11-X01-026-0000	3.81	4.01	3.12
11-X01-027-0000	2.84	3.07	2.34

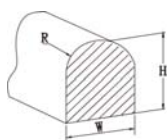
Extruded solid O strips



Dimension

P/N	Diameter (mm)		P/N	Diameter (mm)	
	D	d		D	d
11-X04-001	2.03	1	11-X04-029	4	2
11-X04-003	3.18	1.14	11-X04-031	2.79	1.73
11-X04-004	2.4	1	11-X04-034	7	5
11-X04-005	4.06	1.14	11-X04-038	3.7	1.5
11-X04-006	4.5	1.2	11-X04-041	2.3	1.14
11-X04-007	3.7	2.9	11-X04-042	4.2	1.5
11-X04-009	4	1.5	11-X04-043	1.5	0.7
11-X04-010	4	1.3	11-X04-045	2	0.8
11-X04-011	2.11	1.27	11-X04-046	2.7	1
11-X04-015	2.62	1	11-X04-047	6.4	3.4
11-X04-017	3.2	1.6	11-X04-055	3.4	1.8
11-X04-018	2.54	1.78	11-X04-058	1.52	0.5
11-X04-019	3.7	1.8	11-X04-060	3.4	2
11-X04-021	3.5	1.8	11-X04-061	5	2.5
11-X04-025	2.5	1	11-X04-062	4.5	2.3
11-X04-026	3.18	1.57	11-X04-066	2.8	1.6
11-X04-027	2.8	1	11-X04-070	3.18	1.14
11-X04-028	3.5	1.5	11-X04-071	1.57	0.89

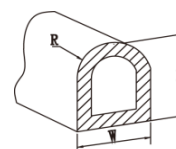
Extruded solid D strips



Dimension

P/N	Diameter (MM)			Rule of Thumb Groove Dimensions (mm)	
	W	H	R	Width	Depth
11-X02-001-0000	1.4	1.63	0.79	1.96	1.32
11-X02-002-0000	1.57	2.16	0.76	2.23	1.83
11-X02-006-0000	2.6	2.92	1.3	3.4	2.51
11-X02-007-0000	3	3.96	1.50	3.45	3.48
11-X02-011-0000	7	8	3.5	7.8	6.4
11-X02-014-0000	1.52	2.2	0.76	2.13	1.87
11-X02-016-0000	2	1.58	1.21	2.6	1.3
11-X02-017-0000	3	3.5	1.5	3.45	2.98
11-X02-018-0000	1.98	2.26	0.99	2.57	1.88

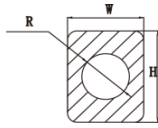
Extruded hollow D strips



Dimension

P/N	Diameter (mm)		
	W	H	Wall thickness
11-X05-001-0000	1.4	1.63	0.79
11-X05-002-0000	1.57	2.16	0.76
11-X05-004-0000	2.6	2.92	1.3
11-X05-007-0000	3	3.96	1.5
11-X05-009-0000	7	8	3.5
11-X05-012-0000	1.52	2.2	0.76
11-X05-014-0000	2	1.58	1.21
11-X05-015-0000	3	3.5	1.5
11-X05-028-0000	1.98	2.26	0.99

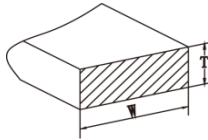
Extruded hollow rectangular strips



Dimension

P/N	Diameter (mm)		
	W	H	Wall thickness/ Core diameter
11-X06-001-0000	1.5	1.5	φ0.8
11-X06-004-0000	5	4	φ2.5

Extruded solid rectangular strips



Dimension

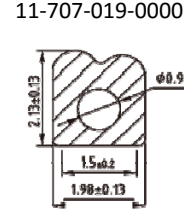
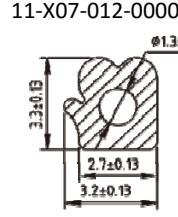
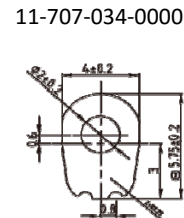
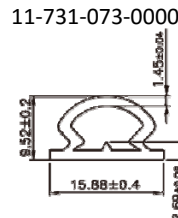
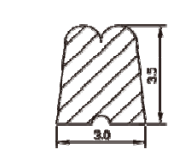
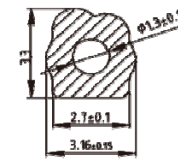
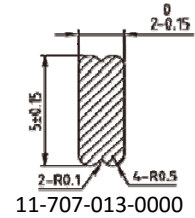
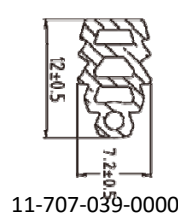
P/N	Dimension(mm)	
	W	T
11-X03-005-0000	2.41	1.57
11-X03-007-0000	3.05	1.02
11-X03-010-0000	6.35	1.57
11-X03-011-0000	9.91	1.57
11-X03-013-0000	14.45	1.57
11-X03-014-0000	6.5	4
11-X03-015-0000	5	4
11-X03-017-0000	8	2
11-X03-018-0000	2.5	2.5
11-X03-030-0000	16	2

Dimensional Tolerance

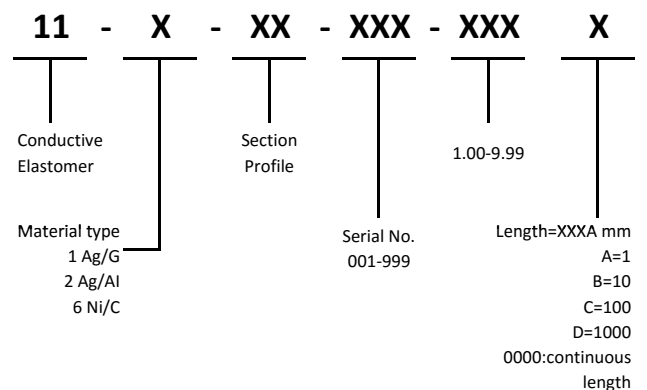
	Dimension(mm)	Tolerance(mm)
Cross-section	<5	±0.15
	5~9	±0.2
	9~12	±0.25
	>12	±3%
Length	<25	±1
	25~750	±2
	>750	±0.35%

Customized Profiles

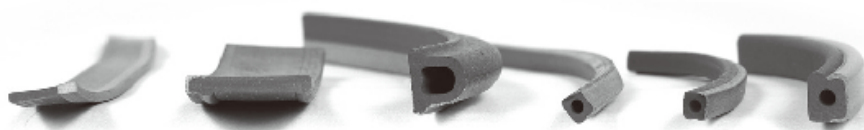
Jones' experienced design team is always ready for help with customized profiles according particularly to customers' individual requirement. Followings are some examples.



Order Information



Anti-Galvanic Corrosion Co-extruded Conductive Elastomer



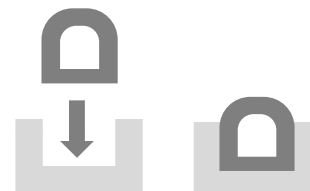
Description

Beijing JONES developed her own specialized technique to provide co-extruded conductive elastomer in mass production. This series is major types of conductive elastomer with special performance against galvanic corrosion.

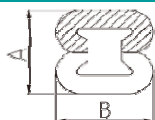
Due to skin effect, only thin surface of conductive elastomer provide EMI shielding against radiated interference. When the fewer conductive parts are used, if the same volume resistance of conductive part of elastomer remains, as consequence, the same shielding effectiveness can be achieved. Beijing JONES developed special design for the cross section of elastomer, appropriated arrangement between conductive part and non-conductive part has been adopted to completely eliminate the intrinsic galvanic corrosion of conductive elastomer. Through co-extrusion of conductive part and non-conductive part, strong chemical bonding between two parts is achieved, at the same time, co-extrusion also provides advantages of reducing cost, better performance-price ratio and better mechanical performance.

Product

Beijing JONES developed Easy-Fit-in type of conductive elastomer gasket to offer more working saving advantages. This product has hollow profile in cross section with very thin wall, this configuration gives the gasket more resilience and much lower weight. In practice, you only need to have flange with width equals or smaller than the width of the strips, as consequence, it is not necessary to have adhesive tape on the back side to install the elastomer gasket, only press the gasket into the flange is enough to fix the gasket position. The installation scheme is presented as follows:

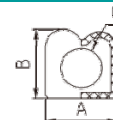


Co-extruded 8-shaped strips



P/N	Dimensions(mm) ±0.15		"Rule of Thumb" Groove Dimensions(mm)	
	A	B	Width± 0.05	Depth± 0.05
11-X31-054-0000	4.58	4.75	1.9	1.35
11-X31-037-0000	4.57	4.75	1.9	1.8

Standard co-extruded B strips



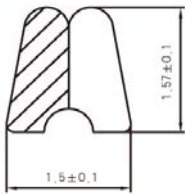
P/N	Dimensions(mm) ±0.15			"Rule of Thumb" Groove Dimensions(mm)	
	A	B	C	Width± 0.05	Depth± 0.05
11-X31-020-0000	1.8	1.8	0.9	1.9	1.35
11-X31-024-0000	1.8	2.4	0.9	1.9	1.8
11-X31-025-0000	2.1	2.4	/	2.2	1.8
11-X31-035-0000	2.5	2.8	1.2	2.6	2.1
11-X31-001-0000	3.2	3.63	1.6	3.4	2.7
11-X31-089-0000	3.4	3.99	1.9	3.6	2.6
11-X31-086-0000	5.16	4.96	2.36	5.5	3.7
11-X31-018-0000	5.3	6	2.5	5.5	4.32
11-X31-026-0000	3	3.5	1.5	3.2	2.52
11-X31-098-0000	3	4.04	1.8	3.2	2.9
11-X31-109-0000	3.5	3.5	2	3.7	2.52

Co-extruded Ag/Al strips

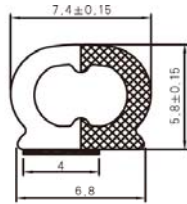


P/N	Dimensions(mm) ±0.15			"Rule of Thumb" Groove Dimensions(mm)	
	A	B	T	Width± 0.05	Depth± 0.05
11-231-044-0000	3.1	2.85	0.8	3	2
11-X31-062-0000	2.9	2.8	0.8	2.8	1.96
11-X31-063-0000	4	4	1	3.9	2.8

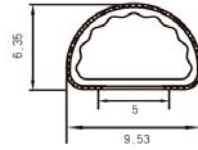
Part of customer specific co-extruded conductive elastomer



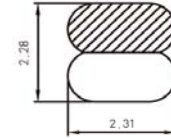
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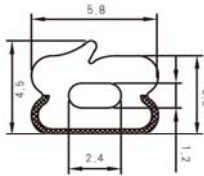
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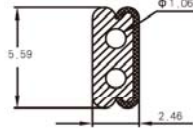
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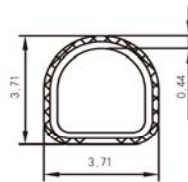
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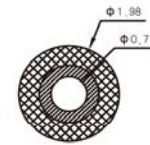
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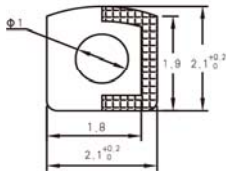
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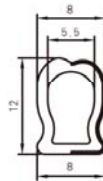
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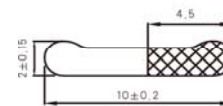
11-X31-122-0000



11-X31-036-0000



11-X31-128-0000



11-X31-088-0000

Order Information

11	-	X	-	XX	-	XXX	-	XXX	X
Conductive Elastomer		Material type		Section Profile		Serial No.		Length=XXXX mm	
		1 Ag/G 2 Ag/Al 6 Ni/C				001-999		A=1 B=10 C=100 D=1000 0000:continuous length	

Dimensional Tolerance

	Dimension(mm)	Tolerance(mm)
Cross-section	0.0-5.5	±0.13
	5.5-9.0	±0.2
	9.0-13.0	±0.25
	13.0-	±3%
Length	0.0-25	±1
	25~760	±2
	760-	0.0035

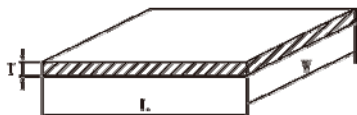
Conductive Elastomer Panel



Product Description

Molded conductive elastomer is made using specialized tool, according to customer specification, under conditions of high temperature and pressure. The main characteristics are suitable for complex structure and excellent electrical conductivity. Beijing JONES can provide molded parts in hundreds of types, standard molded conductive elastomer gasket include: Conductive elastomer panel Conductive elastomer connector gasket.

Dimension

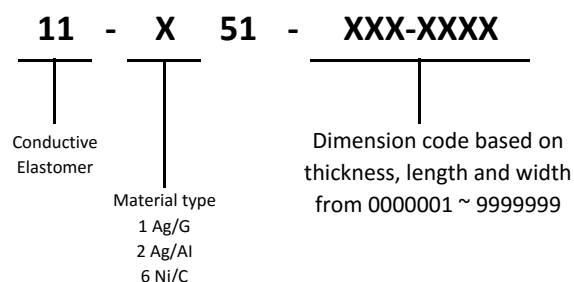


P/N	Dimensions(mm)		
	L	W	T
11-X51-000-0001	254	254	0.51
11-X51-000-0002	254	254	0.81
11-X51-000-0003	381	254	0.51
11-X51-000-0004	381	254	0.81
11-X51-000-0005	305	254	0.51
11-X51-000-0006	305	254	0.81
11-X51-000-0007	305	305	0.51
11-X51-000-0008	305	305	0.81
11-X51-000-0009	508	254	0.51
11-X51-000-0010	508	254	0.81
11-X51-000-0011	508	381	0.51
11-X51-000-0012	508	381	0.81
11-X51-000-0015	381	254	1.57
11-X51-000-0016	254	127	0.51
11-X51-000-0019	508	254	1.57
11-X51-000-0020	254	40	0.51
11-X51-000-0021	500	78	0.81
11-X51-000-0022	500	188	0.81
11-X51-000-0024	250	250	0.6
11-X51-000-0025	427	414	0.51
11-X51-000-0027	381	254	1.2
11-X51-000-0028	380	200	0.81
11-X51-000-0031	200	200	0.51
11-X51-000-0032	300	200	0.51
11-X51-000-0033	300	180	0.51
11-X51-000-0034	406	203	1.57
11-X51-000-0035	80	40	0.81
11-X51-000-0036	50	30	0.81
11-X51-000-0037	60	30	0.81
11-X51-000-0038	203	406	1.5
11-X51-000-0039	210	210	0.81
11-X51-000-0040	195	165	0.51
11-X51-000-0041	200	180	0.51
11-X51-000-0042	250	260	0.51
11-X51-000-0046	20	20	0.3
11-X51-000-0047	254	508	1.2

Dimensional Tolerance

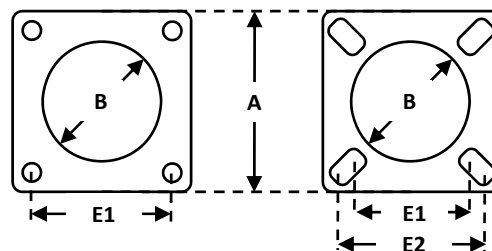
L&W	Dimensions(mm)		Tolerance(mm)
	From(>)	To(≤)	±
	0	254	0.25
254	381	0.51	
381	508	0.20%	
T	Dimensions(mm)		Tolerance(mm)
	From(>)	To(≤)	±
	0	0.51	0.1
	0.51	0.81	0.13
	0.81	1.14	0.15
	1.14	1.57	0.18
1.57	2.36	0.25	

Order Information



Rectangular Flange Conductive Elastomer Gasket

Rectangular flange conductive elastomer gasket is mainly used between connector flange and installation panel, it provides both environmental sealing and EMI shielding. Beijing JONES connector gasket can be used in the connectors according to standard of MIL-C-83723, MIL-C-5015, MIL-C-26482, MIL-C-38999, MIL-81511, it can be substituted with normal flange connector gasket. It should be used along with interface sealing gasket.



P/N	Structure Diagram	A	B	E1	E2
11-252-119-0000	1	20	10	13	/
11-252-057-0000	1	21	13.5	15	/
11-252-208-0001	1	21	15	15	/
11-252-001-0000	1	21.3	16	15	/
11-252-147-0000	1	22	13	15	/
11-252-062-0000	1	22	15	16	/
11-252-209-0001	1	23	17	18.3	/
11-252-135-0000	1	24	18.5	18	/
11-252-210-0001	1	24.1	17.5	18.26	/
11-252-002-0000	1	24.5	19	18.2	/
11-252-201-0000	1	25	14.5	19	/
11-252-141-0000	1	25	15.8	19	/
11-252-146-0000	1	25	16	18.5	/
11-252-216-0002	2	25	16.5	16	19
11-252-126-0000	1	25	18.5	19	/
11-252-120-0000	1	25.4	17	18.2	/
11-252-094-0000	1	26	14.5	19	/
11-252-051-0000	1	26	16	18	/
11-252-063-0000	1	26	18.5	20	/
11-252-015-0000	1	26.2	15.5	20.62	/
11-252-211-0001	1	26.2	20.2	20.62	/
11-252-212-0001	1	26.5	21.3	20.62	/
11-252-218-0002	2	27	18.5	18	21.5
11-252-065-0000	1	27	20.5	21	/
11-252-003-0000	1	27	22.2	20.5	/
11-252-136-0000	1	27	22.5	21	/
11-252-218-0000	1	27.5	18.5	21.5	/
11-252-047-0000	1	27.5	19.7	21.5	/
11-252-121-0000	1	27.5	22.5	21.5	/
11-252-095-0000	1	28	18.5	21.5	/
11-252-220-0002	2	28	20.5	20	22.5
11-252-145-0000	1	28	21	21	/
11-252-220-0001	1	28	23	21	/
11-252-017-0000	1	28.6	19.5	23.02	/
11-252-213-0001	1	28.6	24.5	23	/
11-252-122-0000	1	30	22	24	/
11-252-222-0002	2	30	22.5	21	24

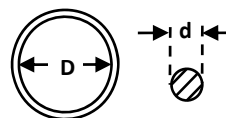
P/N	Structure Diagram	A	B	E1	E2
11-252-004-0000	1	30	25.5	23	/
11-252-019-0000	1	31	21.5	24.62	/
11-252-096-0000	1	31	22.5	24	/
11-252-143-0000	1	31.1	25.4	24.6	/
11-252-005-0000	1	31.95	28.83	24.61	/
11-252-144-0000	1	32	23	23	/
11-252-224-0002	2	32	24.5	23	26
11-252-048-0000	1	32	25.7	26	/
11-252-134-0000	1	32	27.5	26	32
11-252-137-0000	1	33	27.5	26	/
11-252-224-0001	1	33	28	26	/
11-252-217-0001	1	33	31	27	/
11-252-021-0000	1	33.3	25	26.98	/
11-252-006-0000	1	34.3	32	37	/
11-252-123-0000	1	34.5	27	28	/
11-252-227-0002	2	34.5	27.5	25	28
11-252-230-0002	2	36	30.5	27	30.5
11-252-230-0001	1	36	31	28	/
11-252-024-0000	1	36.5	28	29.36	/
11-252-230-0000	1	36.5	30.5	30	/
11-252-219-0001	1	36.5	32.9	29.36	/
11-252-023-0000	1	37.3	32.5	29.4	/
11-252-007-0000	1	38	35	29.4	/
11-252-233-0002	2	38.5	33.5	29	32
11-252-066-0000	1	39	31.5	31	/
11-252-106-0000	1	39	33.5	31	/
11-252-233-0001	2	39	33.5	29	32
11-252-025-0000	1	39.7	31.5	31.76	/
11-252-221-0001	1	39.7	36.2	31.76	/
11-252-098-0000	1	40	33.5	32.5	/
11-252-008-0000	1	41.3	38	31.8	/
11-252-236-0001	2	42	36.5	32	35
11-252-027-0000	1	42.9	34.5	34.92	/
11-252-009-0000	1	44.5	41.3	34.9	/
11-252-107-0000	1	45	39.5	36	/
11-252-010-0000	1	47.6	44.5	38	/

O-ring

Product Description



Suitable for connectors complied to standard of GJB598 and GJB 599, it is suggested to be used if fluid, pressure sealing and EMI shielding are required at the same time.



P/N	Dimensions(mm)	
	D	d
11-X54-004-0000	14	1.78
11-X54-006-0000	19	1.8
11-X54-007-0000	20.35	1.78
11-X54-010-0000	28.3	1.78
11-X54-014-0000	40.94	2.62
11-X54-016-0000	47.3	2.62
11-X54-018-0000	17.3	2.5
11-X54-019-0000	22.3	2.5
11-X54-020-0000	25.4	2.5
11-X54-022-0000	15	1.78
11-X54-025-0000	32.5	1.8
11-X54-027-0000	42.5	1.8
11-X54-028-0000	54.5	1.8
11-X54-031-0000	34	2.3
11-X54-040-0000	31	5.5
11-X54-042-0000	18	1.8
11-X54-045-0000	3.75	1.8
11-X54-047-0000	3.2	0.81
11-X54-048-0000	46.7	2.65
11-X54-049-0000	30.7	1.8
11-X54-058-0000	18	2.65
11-X54-059-0000	22	2
11-X54-060-0000	14.5	1.9
11-X54-061-0000	40	5
11-X54-063-0000	26.5	2.5
11-X54-064-0000	29	2.5
11-X54-065-0000	18	2.5
11-X54-066-0000	15.5	2.5
11-X54-067-0000	41.3	3.25
11-X54-071-0000	30	2.8
11-X54-074-0000	6	1
11-X54-076-0000	23.6	2.3
11-X54-077-0000	22.4	2.65
11-X54-078-0000	13.5/29	2.3
11-X54-079-0000	16	2.65
11-X54-080-0000	23.6	2.65
11-X54-082-0000	30.5/31.5	2.3

P/N	Dimensions(mm)	
	D	d
11-X54-085-0000	20	2.25
11-X54-087-0000	63.8/67	3.18
11-X54-088-0000	34	3
11-X54-090-0000	22	1.5
11-X54-091-0000	29	2.65
11-X54-092-0000	92.5	2.65
11-X54-093-0000	97.5	2.65
11-X54-094-0000	86	2.65
11-X54-095-0000	60	2.65
11-X54-096-0000	36.5	2.65
11-X54-097-0000	36.5	1.8
11-X54-098-0000	32.5	2.65
11-X54-099-0000	28	1.8
11-X54-100-0000	25.8	1.8
11-X54-101-0000	25	1.8
11-X54-102-0000	23.6	1.8
11-X54-103-0000	21.2	1.8
11-X54-104-0000	20	2.65
11-X54-105-0000	20	1.8
11-X54-106-0000	17	1.8
11-X54-107-0000	16	1.8
11-X54-108-0000	15	1.8
11-X54-109-0000	14	1.8
11-X54-110-0000	14	1.2
11-X54-111-0000	20	2.2
11-X54-112-0000	25	2.65
11-X54-113-0000	11.11	1.3
11-X54-114-0000	26.7	1.8
11-X54-149-0000	33.05	1.78
11-X54-153-0000	24.8	1.78
11-X54-158-0000	27.7	2.65
11-X54-159-0000	11.11	1.78
11-X54-160-0000	26.7	1.78
11-X54-161-0000	33.05	1.78
11-X54-162-0000	24.8	2
11-X54-163-0000	27.7	2
11-X54-164-0000	31	2

P/N	Dimensions(mm)	
	D	d
11-X54-165-0000	22.5	1.8
11-X54-166-0000	37	2.5
11-X54-167-0000	32	2.65
11-X54-170-0000	19.8	2
11-X54-171-0000	14	2.65
11-X54-172-0000	14	2
11-X54-173-0000	10	1.8
11-X54-174-0000	40.9	2
11-X54-176-0000	11.8	1.8
11-X54-177-0000	13.5	1.5
11-X54-178-0000	10	1.5
11-X54-179-0000	42.5	2.65
11-X54-180-0000	19	1.57
11-X54-181-0000	21.2	1.57
11-X54-182-0000	10	1.3
11-X54-183-0000	22.3	2.45
11-X54-187-0000	22.5	2
11-X54-188-0000	28	2.65
11-X54-189-0000	4.9	0.8
11-X54-190-0000	15	1.5
11-X54-191-0000	7.5	1.8
11-X54-192-0000	3.4	2
11-X54-194-0000	6.5	1
11-X54-196-0000	20	2.2
11-X54-198-0000	14	2
11-X54-199-0000	28	7.7
11-X54-202-0000	18.2	1.8
11-X54-203-0000	14.2	1.8
11-X54-206-0000	10	1.9
11-X54-208-0000	20	1.9
11-X54-209-0000	18.2	1.8
11-X54-212-0000	25	1.9
11-X54-213-0000	32	1.9
11-X54-214-0000	32.5	1.9
11-X54-215-0001	36	1.9
11-X54-216-0002	11.4	1.78
11-X54-217-0003	18.2	1.57

Dimensional Tolerance

	Dimension(mm)	Tolerance(mm)
Cross-section	0-2.5	±0.1
	2.5-50	±0.15
Inner Diameter	5-10	±0.3
	38-64	±0.4
	64-114	±0.5
	114-178	±0.6
	178-	±0.35%

CSM Conductive Elastomer—Molded Products

Product Description

As a professional supplier of conductive elastomer gaskets, Jones supports its customers by producing molded conductive elastomer EMI gaskets in special shapes besides the standard products. These parts of highly complex designs could be made of conductive silicone or silicone that meet specialized shielding or environmental sealing requirements. Custom molded elastomer gaskets include tight corners, retention bumps, and other special geometries. In addition, Jones is equipped with metal/elastomer co-molded technology to design complex parts. The following pictures are some representative examples of our customization capabilities.

