Miniature Bellows Electrical Contacts

Servometer

Flexible Electrical Continuity

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Servometer

Introducing Servometer® Gold Plated Bellows Contacts

Servometer, an MW Industries company, flexible bellows contacts are ideal for diodes, delay lines, wave guide components, printed circuit boards or any application that depends on one or more spring contacts for reliable electrical connection.

Our bellows contacts are manufactured from our proprietary FlexNickel®, a Nickel-Cobalt alloy, then gold plated to ASTM B488 to enhance their conductivity. In critical assemblies they are able to easily overcome tolerance buildup, vibration and thermal expansion.

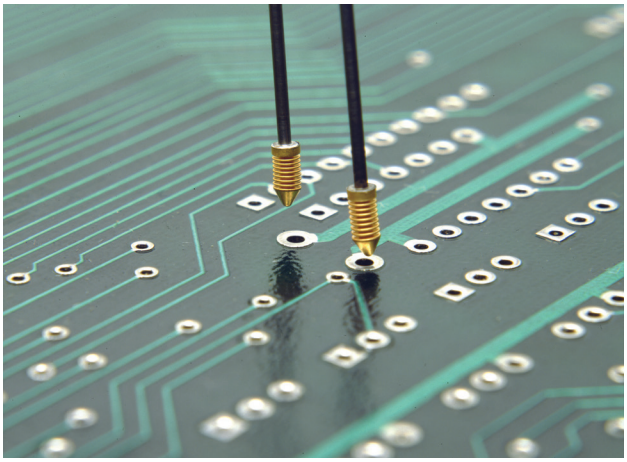
Other advantages include:

- **Minimum of self-inductance**
- **Extremely low DC resistance**
- **Minimum of insertion loss**
- **Good electrical contact between two mating parts with moderate forces**
- **Lifetime spring reliability (100 cycles to infinity)**
- **Miniature size capability**
- **Seamless and non-porous with no permeability to dust, dirt or moisture**
- **Reduce tolerance build-up**
- **Maximum current rating of 4 amps**
- **Operating temperature -423 °F to 260 °F with no loss of spring rate**
- **Superior conductivity at higher frequencies (gigahertz (GHz) range and higher)**
- **Available from stock**

Applications

No Hassle Mounting and Installation

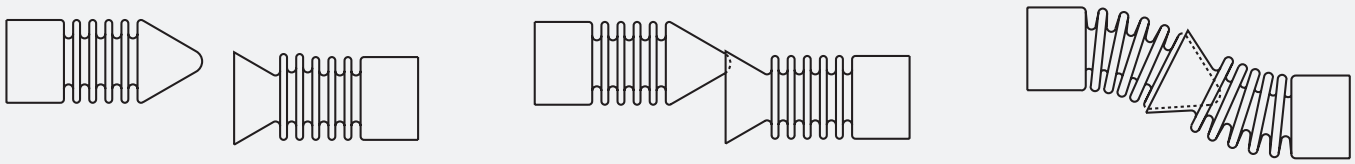
Bellows contacts can be easily mounted to a properly dimensioned pin or shaft with either solder or conductive adhesives or spot welded into place.



Interconnectric® Flexible Contacts

These highly versatile contacts feature all the same great benefits of our spring contacts but with a flexible interconnection advantage. The pairing of one contact with a convex conical tip to a contact with a concave conical receptacle tip allows them to self-align. This flexible construction allows them to compensate for angular and parallel misalignments as they connect. They are a low cost solution to expensive alternative assemblies and components.

Paired Flexible Interconnectric® Contacts

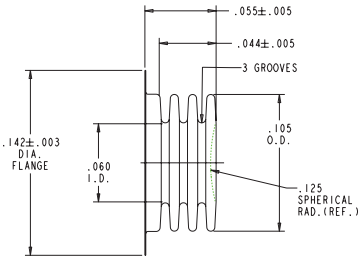


Ordering Information

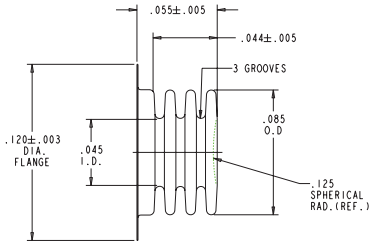
Find a spring contact from stock to meet your requirement in the charts below. If you can't find what you're looking for, our team of engineers will work with you to design a custom solution.

Standard Contact Springs Available From Stock*

1571-1



1571-2



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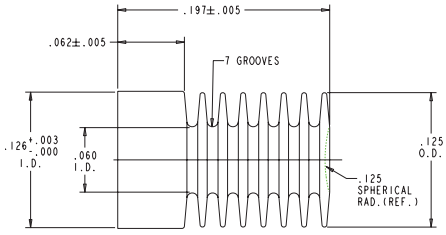

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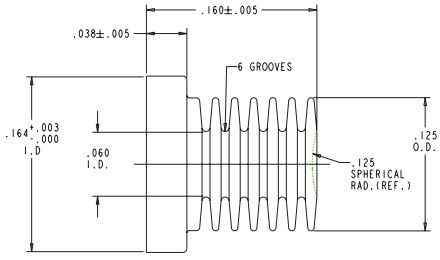

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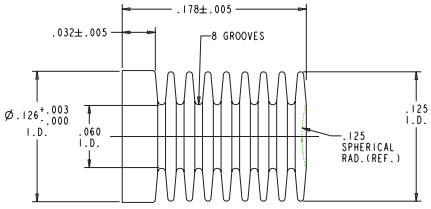

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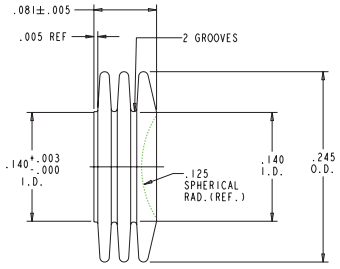

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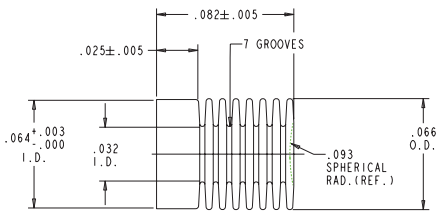

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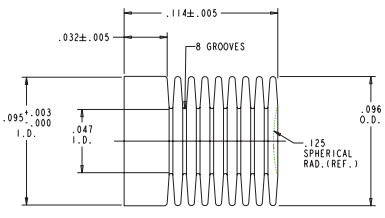

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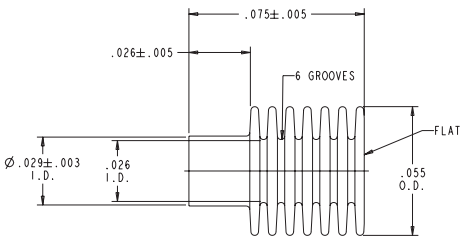

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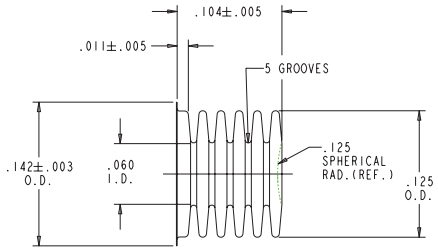

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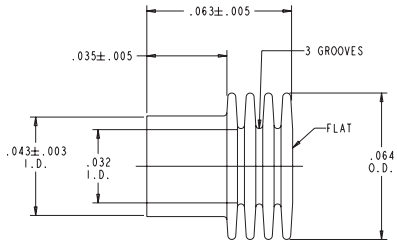

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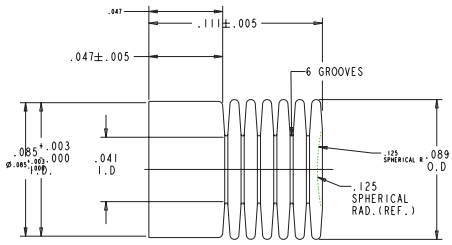

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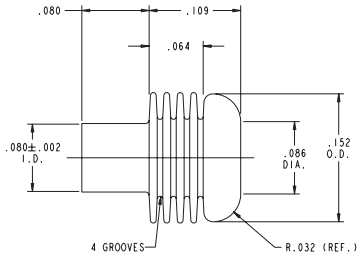

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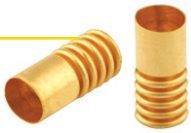
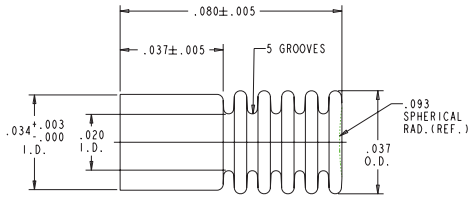




Part Number	Outside Diameter (inches)	Overall Length (inches)	Convolution Length (inches)	Maximum Compression Stroke (inches)	Minimum Force @ Full Compression (oz.)	Metallic OHMS D.C. Resistance	Surface Finish
1571-1	.105	.055	.044	.015	3.0	.005	.00005" gold
1571-2	.085	.055	.044	.015	4.0	.005	.00005" gold
2012	.125	.197	.135	.065	4.0	.009	.00005" gold
2013	.125	.160	.122	.060	4.0	.008	.00005" gold
2014	.125	.178	.146	.072	3.5	.010	.00005" gold
2023	.245	.081	.076	.035	6.0	.004	.00005" gold
2146	.066	.082	.057	.030	1.1	.013	.00005" gold
2156	.096	.114	.082	.047	2.4	.011	.00005" gold
2159	.055	.075	.049	.022	1.37	.048	.00005" gold
2173	.125	.104	.093	.041	2.3	.019	.00005" gold
2185	.064	.063	.028	.012	1.79	.026	.00005" gold
2223	.089	.111	.064	.028	4.91	.027	.00005" gold
2392	.155	.188	.064	.025	3.5	.007	.00005" gold
2510	.037	.080	.043	.012	.22	.030	.00005" gold

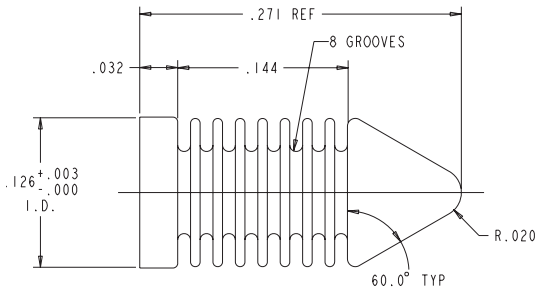
*Note: Maximum compressions indicated in the charts above are for 1,000 cycle life. The maximum amount of compression is reduced by 33% for 100,000 cycles and by 50% for 100 million cycles.

Ordering Information

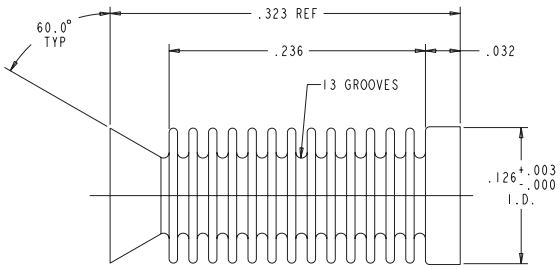
Find a spring contact from stock to meet your requirement in the charts below. If you can't find what you're looking for, our team of engineers will work with you to design a custom solution.

Interconnectric® Contact Springs Available From Stock*

SK-18636



SK-18637



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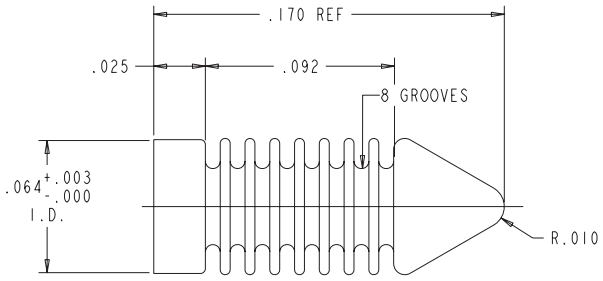

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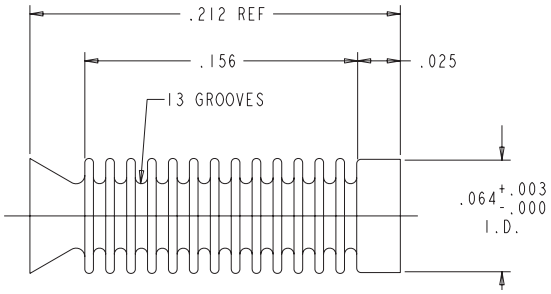

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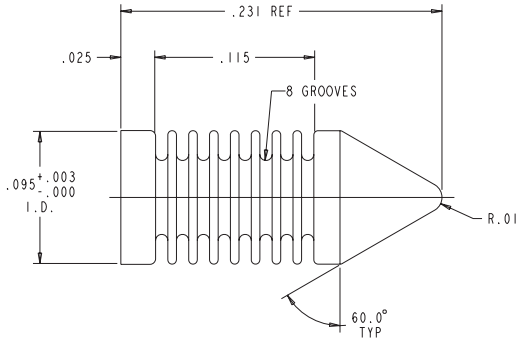

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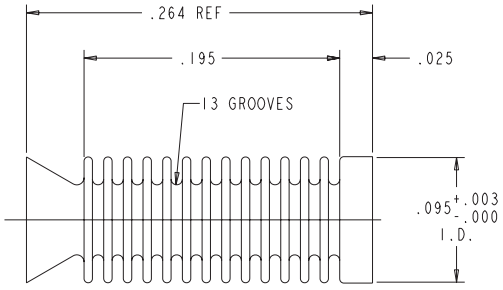

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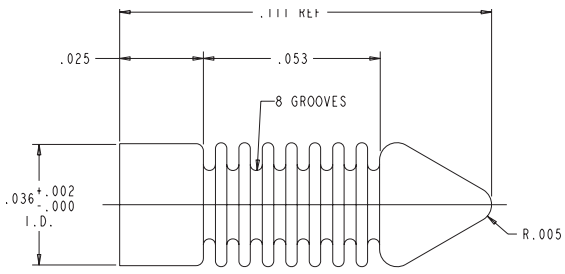

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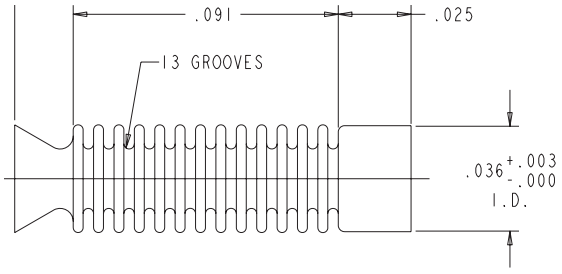

Part Number	Outside Diameter (inches)	Overall Length (inches)	Convolution Length (inches)	TYPE	Maximum Compression Stroke (inches)	Maximum Angular Misalignment degrees (°)	Maximum Parallel Misalignment (inches)	Minimum Force @ Full Compression (oz.)	Metallic OHMS D.C. Resistance
SK-18636	.125	.271	.144	IIIII>	.037	21	.010	1.616	.020
SK-18637	.125	.322	.236	>IIIII	.053	30	.025	2.315	.015
SK-18642	.066	.170	.092	IIIII>	.020	22	.007	0.755	.019
SK-18643	.066	.212	.156	>IIIII	.030	32	.017	1.132	.028
SK-18646	.096	.231	.115	IIIII>	.029	21	.008	1.786	.015
SK-18647	.096	.264	.195	>IIIII	.042	31	.021	2.587	.022
SK-18648	.037	.111	.053	IIIII>	.013	25	.005	0.187	.028
SK-18649	.037	.136	.091	>IIIII	.019	36	.011	0.275	.040

*Note: The maximum compression is reduced by 33% for 100,000 cycles, 50% for 100 million cycles.
Compression, angular, and parallel misalignment are mutually exclusive.

MW Components

About MW Components

MW Components is focused on accelerating the entire process of delivering custom, stock, and standard parts to virtually any volume and against demanding deadlines. We work to highly complex tolerances. We help simplify the management of any number of different components. And we take a no-compromise approach to quality. With MW Components, you can be sure you'll get the right part to the right specification when and where you need it.

MW Components. Whatever it takes.

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