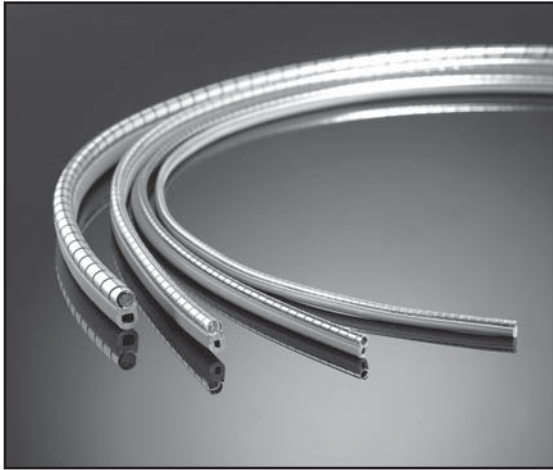
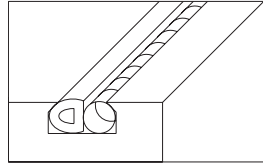


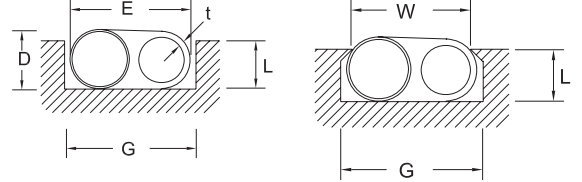
# “D” Multi-Seal



“D” Multi-Seal is a groove-mounted gasket with a bulbous silicone elastomer for an excellent environmental seal. It comes standard with the Spira-Shield for superior shielding quality or can be ordered with any other spiral material.



See page 47 for groove mounting techniques.



You can use either a dovetail or conventional o-ring groove.

Gasket Dimensions			“D” Multi-Seal Part Numbers (Spira-Shield Gasket)			Recommended Mounting Dimensions		
Width of Gasket (E)	Spiral Diameter (D)	Thickness of Wall (t)	Standard Force*	Moderate Force	Low Force	Depth (L) +.002”- .000”	Width (G) +.007”- .005”	Width (W) +.000”- .002”
.141”	.063” ± .003”	N/A**	DSS-0421	DMS-0421	--	.046”	.187”	.138”
.187”	.094” ± .004”	N/A**	DSS-0632	DMS-0632	--	.070”	.250”	.180”
.250”	.125” ± .004”	.031”	DSS-0842	DMS-0842	DLS-0842	.094”	.313”	.240”
.375”	.187” ± .006”	.047”	DSS-1263	DMS-1263	DLS-1263	.140”	.500”	.367”
.500”	.250” ± .007”	.047”	DSS-1684	DMS-1684	DLS-1684	.188”	.625”	.485”

Moderate and low force gaskets come with a cord unless specified otherwise. (See Options).  
\*All standard force gaskets come without a cord. \*\*These sizes come with a solid elastomer.

See page 47 for groove mounting techniques.  
Dovetail Groove Cutters detailed on page 32.

## Application Information

This combination EMI and environmental gasket is ideal for applications that need excellent sealing and have somewhat limited space or want to utilize a groove-mount solution. (For surface mount applications, see the Basic Multi-Seal data sheet, page 15).

### Materials

See page 55 for material specifications.

**Spiral:** Spira-Shield, Tin/lead plated beryllium copper.

**Elastomer:** Solid silicone rubber, 40 durometer on -0421 & -0632; 60 durometer on all other sizes. (See Options for RoHS compliance or other material choices).

### Shielding Quality

This gasket offers shielding quality from 86 dB to 165 dB. The shielding quality may vary depending on your specific application. Refer to page 44 for more complete performance data.

### Compression Force

“D” Multi-Seal gaskets come in three different resiliencies (as shown below). Optimal compression of the gasket is 25% of the diameter of the spiral. Since the force to compress the gasket is a function of the cube of the thickness of the beryllium copper ribbon, the compression forces shown are approximate.

**Standard Force:** ~33 pounds per linear inch compression.

**Moderate Force:** ~13 pounds per linear inch compression.

**Low Force:** ~5 pounds per linear inch compression.

## Mounting

This gasket is groove mounted. Refer to Groove Mounting Techniques on page 47 for detailed mounting information.

## Available Options

### Spiral Material

See page 56 for material compatibility information.

“D” Multi-Seal comes standard with a tin/lead plated Spira-Shield gasket. Other spiral materials or plating may be specified by choosing a different prefix from the following table. See pages 1-10 for more information on the Spiral materials.

1. Choose the desired gasket from the table on page 13 based on size and force.  
Example: **DMS-1263**, moderate force, E=.375”, D=.187”
2. Substitute the prefix from the table below based on spiral material and plating.  
Example: **DEMT-1263**, moderate force Flexi-Shield, edge tin/lead plated BC.

Specify a different spiral material by choosing the desired prefix from the table.

Example:  
**DEIWSS-1263**  
“D” Multi-Seal  
RoHS edge plated  
Spira-Shield gasket  
Standard force  
(No cord by default)

	Spira-Shield	Quick & Ultra Quick-Shield	Enduro-Shield		Flexi-Shield	
Spiral:	Tin Plated BC	St. Steel	Tin Plated BC	St. Steel	Tin Plated BC	St. Steel
<b>Standard: Tin/Lead or No Plating</b>	DSS (default) DMS DLS	DNI DNM DNL	DSISS DSIMS DSILS	DSINI DSINM DSINL	DST DMT DLT	DSQ DMQ DLQ
<b>Tin/Lead or Edge Plating Option (T or E)</b>	DESS DEMS DELS	DTNI DTNM DTNL	DESISS DESIMS DESILS	DSITNI DSITNM DSITNL	DEST DEMT DELT	DTSQ DTMQ DTLQ
<b>RoHS Tin Plating Option (IW)</b>	DIWSS DIWMS DIWLS	DIWNI DIWNM DIWNL	DIWSISS DIWSIMS DIWSILS	DIWSINI DIWSINM DIWSINL	DIWST DIWMT DIWLT	DIWSQ DIWMQ DIWLQ
<b>RoHS Edge Tin Plating Option (EIW)</b>	DEIWSS DEIWMS DEIWLS	--	DEIWSISS DEIWSIMS DEIWSILS	--	DEIWST DEIWMT DEIWLT	--

### Cord Insert

Standard Force gaskets come without a cord. Moderate and low force gaskets come standard with PVC cord to protect the spiral from over-compression. Specify “no cord” in moderate and low force gaskets as follows:

**NC:** No Cord (Example: **DMS-1263 NC**)

### Special Cord

Special cords including solid fluorosilicone, solid silicone and thermal plastic rubber are available in some sizes. Please contact us for details.

### Special Elastomer

The standard elastomer is solid silicone. A special elastomer can be specified as shown below (available in certain sizes only).

/E: EPDM (Example: **DMS-1263 /E**)

/F: Fluorosilicone

/O: Space Qualified Silicone (non-outgassing)

## Ordering Information

“D” Multi-Seal is sold by the foot in 10 foot lengths. The pieces can be spliced together to make longer lengths for a small charge. Custom o-rings are also available. (See page 33).