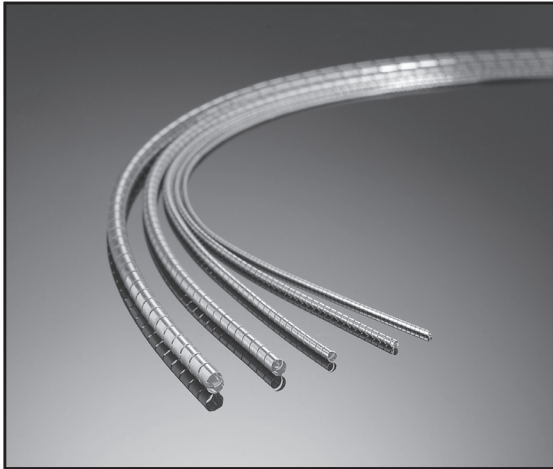
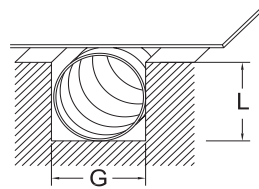


Ultra Quick-Shield

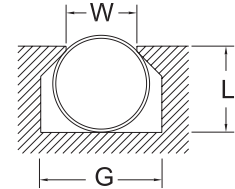


Ultra Quick-Shield offers excellent shielding at an affordable price. The spiral is wound out of low cost spring temper stainless steel for excellent spring memory and compression set resistance. The spiral is tin plated for superior conductivity and shielding properties.



standard o-ring groove

See page 47 for groove mounting techniques.



dovetail groove

Ultra Quick-Shield Part Numbers (Tin Plated Stainless Steel)				Recommended Groove Dimensions		
Diameter	Standard Force*	Moderate Force	Low Force	Depth (L) +.002"-.000"	Width (G) +.007"-.005"	Width (W) +.000"-.002"
.034" ± .002"	TNI-02	TNM-02 NC**/**	--	.023"	.046"	.033"
.047" ± .002"	TNI-03	TNM-03 NC**/**	--	.035"	.063"	.045"
.063" ± .003"	TNI-04	TNM-04 NC	TNL-04 NC***	.046"	.094"	.060"
.070" ± .003"	TNI-.070	TNM-.070 NC	TNL-.070 NC	.053"	.094"	.067"
.078" ± .003"	TNI-05	TNM-05 NC	TNL-05 NC***	.059"	.109"	.075"
.094" ± .004"	TNI-06	TNM-06 NC	TNL-06 NC***	.070"	.125"	.090"
.103" ± .004"	TNI-.103	TNM-.103 NC	TNL-.103 NC***	.077"	.141"	.099"
.109" ± .004"	TNI-07***	TNM-07 NC	TNL-07 NC	.082"	.156"	.105"
.125" ± .004"	TNI-08***	TNM-08 NC	TNL-08 NC	.094"	.171"	.121"
.139" ± .005"	TNI-.139	TNM-.139 NC	TNL-.139 NC	.104"	.187"	.134"
.141" ± .005"	TNI-09	TNM-09 NC	TNL-09 NC	.105"	.187"	.136"
.172" ± .005"	TNI-11	TNM-11 NC	TNL-11 NC	.128"	.234"	.165"
.187" ± .006"	TNI-12***	TNM-12 NC***	TNL-12 NC	.140"	.250"	.181"
.250" ± .007"	TNI-16***	TNM-16 NC	TNL-16 NC	.185"	.343"	.240"
.312" ± .009"	TNI-20***	TNM-20 NC***	TNL-20 NC	.234"	.422"	.300"

Moderate and low force gaskets may be ordered with cord insert. (See Options).

*All standard force gaskets come without a cord. **These gaskets cannot come with a cord.

*** These sizes are non-stock items and may include additional plating fees.

See page 47 for groove mounting techniques.

Dovetail Groove Cutters detailed on page 32.

Application Information

The affordable cost and superior shielding of this gasket makes it an excellent choice for high end commercial applications. Combining it with a die-cast or molded "pinch boss" groove gives you the optimal price/performance combination. See page 49 for more information.

Materials

See page 55 for material specifications.

Spiral: Tin/lead plated stainless steel. (See Options for RoHS compliance).
Electroplated, 90% tin, 10% lead per AMS-P-81728 (edges unplated).



Shielding Quality

These gaskets can offer shielding quality in excess of 150 dB at frequencies between 100 kHz and 1 GHz. The shielding quality may vary depending on the specific application. Refer to page 45 for complete performance data.

Compression Force

Ultra Quick-Shield 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 stainless steel ribbon, the compression forces shown are approximate.

Standard Force: ~30 pounds per linear inch compression.

Moderate Force: ~10 pounds per linear inch compression.

Low Force: ~1.5 pounds per linear inch compression.

Mounting

This gasket is groove mounted.

Available Options

Plating

See page 56 for material compatibility information.

To specify tin plating for RoHS compliance, replace the “T” with “IW” at the beginning of the part number. Additional plating charges may apply.

IW: RoHS compliant tin plating (Example: IWNL-06 NC)

Material	Force	No Plating	Tin/lead Plating	RoHS Tin Plating	Edge Tin Plating
Stainless Steel	Standard Moderate Low	<i>See Quick-Shield page 3</i>	TNI (default) TNM TNL	IWNI IWNM IWNL	<i>See Spira-Shield page 1</i>

This gasket is not recommended for high humidity or salt-fog applications because the edges of the gasket are not plated. If high humidity or salt-fog environments are to be encountered, the edge plated version of our Spira-Shield gasket is recommended.

Cord Insert

To keep costs low, we recommend you omit the cord usually used in the spiral. However, if over-compression of the gasket is a concern or problem, remove the “NC” from the part number on the moderate and low force series gaskets.

Example: TNL-06 NC will come without a cord. TNL-06 will include cord.

All Standard Force gaskets come without cord (no NC required).

Custom Sizes

We can manufacture Ultra Quick-Shield gaskets in any size diameter, from .034” up to approximately 1.5”. There are no special tooling charges involved, but the functional length of the part may be short at very large diameters. Please contact us with your requirements.

Ordering Information

Ultra Quick-Shield is sold by the foot and typically packaged on spools except in small quantities. It can also be ordered cut-to-length in specific sizes at a low cost, or you can cut it yourself using a sharp pair of scissors. Custom o-rings are also available. (See page 33).