Reinforced Conductive Seals

DESCRIPTION:

Often times standard conductive particle filled elastomers do not have the inherent strength required for demanding hatch, access panel, and door seal applications. The strength can be greatly increased by the addition of a reinforcing fabric such as dacron or fiberglass. As you can see in the above diagram of a bulb seal, the fabric can be imbedded into the seal so environmental sealing and shielding effectiveness remain unaffected.

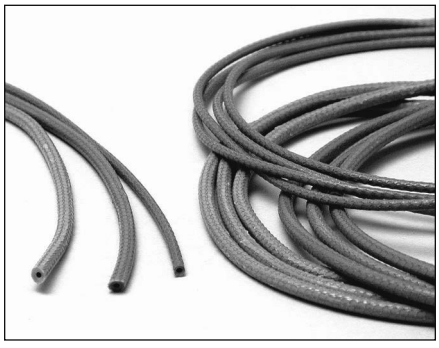
APPLICATION:

Our reinforced electrically conductive seals are mostly used in applications where there is high vibration which can wear down a gaskets resilience and where closing forces create shear forces to high for standard gasketing to withstand.

SPECIFICATIONS:

All of our reinforced electrically conductive seals are manufactured with the same military grade compounds as our non- reinforced materials, and are certified to meet Mil-DTL-83528 where applicable.

Coated Mesh Knit-over Elastomer



DESCRIPTION:

Coated-Mesh Knit-over Elastomers is a new addition to our shielding materials. It is manufactured with a core of silicone (solid, solid tube, or sponge) and a single layer of knitted wire mesh. We then co-extrude a fine layer of silicone based coating to the exterior which adheres the wire to the core, yet allows for the electrical properties to be maintained.

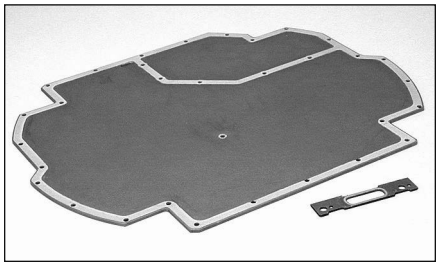
APPLICATION:

Used most commonly in electronic packaging where cost efficiency is critical, but standard wire mesh or knitted wire mesh over elastomers are unusable due to the possibility of dislodged and fraying wires interfering with the electronics.

Due to the “Self-Terminating” capability, our coated knit-overs may be purchased in continuous lengths on spools, and cut to length on your factory floor while being installed. Or if you would rather, Nolato Jabar can supply cut to length or vulcanized into ring gaskets meeting your specific requirements.

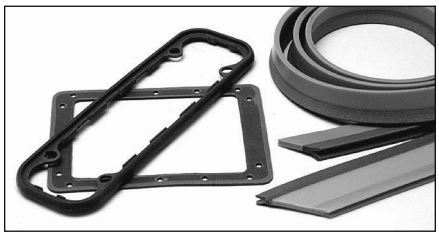
Standard dimensions and ordering information can be found in our SERIES 500 section of this catalog. Custom dimensions are available upon request.

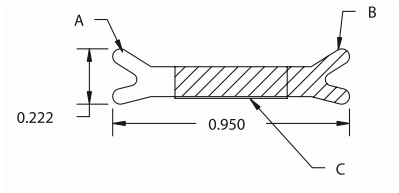
Mold-in-Place Conductive Seals

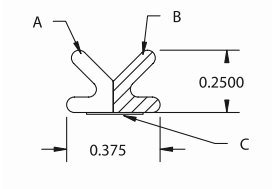


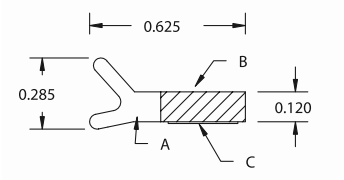
Certain applications require the technology of molding the conductive gasket directly to an Access Panel or Housing. This manufacturing technique permits the use of much smaller and tighter toleranced cross-sections, while eliminating the need for machined grooves or mounting adhesives. The same compounds depicted in the 800 Series Conductive Particle Elastomer section can be specified for this direct molding operation.

Co-Molded Conductive Seals









SHIELDING GASKET "A"	UNITS	PROPERTIES
Mil-DTL Type	—	Type B
Elastomer Binder	—	Silicone
Conductive Filler	—	Silver Plated Aluminum
Color	—	Blue
Temperature Range	C	-55 / +160
Volume Resistivity	ohm-cm max	0.008
Hardness	Shore A	65 +/- 7
Specific Gravity	gms/cc	2.0 +/- 13%
Tensile Strength	# / sq. in.	200
Elongation	% max/min	100 / 300
Compression Set	%	32.0
Tear Strength	# / in.	30.0
Shielding Effectiveness	dB Min	
	200 KHz	100 min
	100 MHz	100 min
	500 MHz	100 min
	2 GHz	100 min
	10 GHz	100 min
SEALING GASKET "B"	UNITS	
Temperature Range	C	-55 / +160
Hardness	Shore A	40 +/- 5
Specific Gravity	gms/cc	1.2 +/- 3%
Tensile Strength	# / sq. in.	700
Elongation	% min	240
Compression Set	% max	25.0
Tear Strength	# / in.	30.0
PSA	UNITS	
Type	—	3M 9473
Peel Adhesion	lb/in.	9
Fungus Resistant	Mil-Std-810	yes
Temperature Range	C	-65 / +150