

GEMINI™ COEXTRUSIONS

MULTI-EXTRUSION, BI-FUNCTIONAL ELASTOMER GASKET

Laird' Gemini™ product line is a high-performance gasket solution that combines a reliable environmental silicone elastomer seal with an electrically conductive elastomer. Conductive particle filler results in a product with lower material cost and an improved environmental seal against water, moisture, dust and mildly corrosive atmospheric conditions due to smog.

Our conductive extrusions offer a wide choice of profiles to fit a large range of applications. The cross-sections shown on the following pages are offered as standard. Custom dies can be built to accommodate your specific design.



FEATURES

- Combines the strength of silicone rubber with Laird' proprietary conductive elastomer EMI shielding materials and knowledge
- Improved environmental seal
- Improved EMI performance over lifetime
- Cost-effective
- Available in both standard and custom profiles
- Ability to use finite element analysis to design the best custom gasket for your application

MARKETS

- Wireless infrastructure
- Remote radio units
- Telecom cabinets
- Radar
- IT cabinets
- All electronic cabinets or electronic chassis that require both an environmental seal and EMI shielding

		TYPICAL COEXTRUSION GASKET DESIGN						
		NONCONDUCTIVE ELASTOMER			CONDUCTIVE ELASTOMER			
PARAMETER	TEST METHOD	NCE220	NCE251	NCE250	ECE72	ECE93	ECE116	ECE115
Polymer matrix		Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
Filler					Ni/Graphite	Ni/graphite	Ag/Al	Ag/Glass
Color	Visual Inspection	Blue	Grey	Orange	Grey	Black	Tan	Tan
Hardness, Shore A	ASTM D2240	70	45	60	75	65	65	65
Density, g/cm3	ASTM D792	1.2	1.2	1.2	2.3	1.9	2	1.9
Tensile strength, psi, min.	ASTM D412	400	700	800	280	150	200	200
Elongation to break	ASTM D412	100-300%	100-300%	100-300%	150%	100-300%	100-301%	100-302%
Tear Strength, ppi, min.	ASTM D624, die C	30	60	60	50	30	30	30
Compression set, %, max.	ASTM D395	35%	10%	10%	30%	30%	32%	30%
Working Temperature								
Maximum, oC	"MIL-DTL-83528C (4.5.15)"	160	160	160	160	160	160	160
Minimum, oC	ASTM D1329	-55	-55	-55	-55	-55	-55	-55
Flame Retardance	UL94	NA	V0	V0	V0	HB	V0	V0

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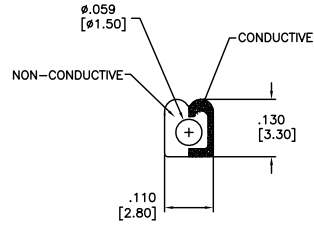
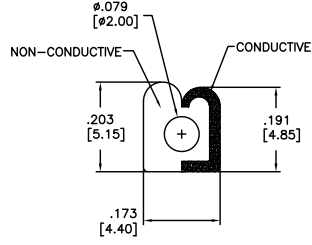
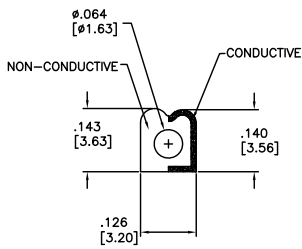
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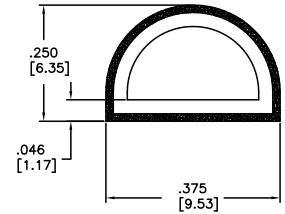
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