



WEATHER GUARD LIGHTNING TECH
SPECIAL-ORDER

SPECIFICATIONS

SEGMENTED LIGHTNING DIVERTERS



**ISO 9001:2015 • AS9100D
CERTIFIED COMPANY**

 **PRI Registrar**
PERFORMANCE REVIEW INSTITUTE

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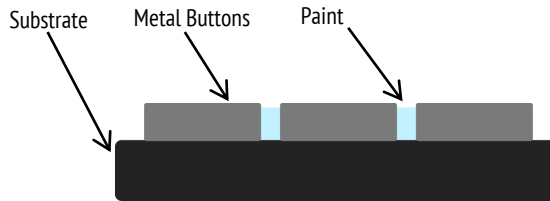
FEATURES OVERVIEW

Weather Guard Lightning Tech is a certified ISO9001:2015 & AS9100D company, adhering to the strictest quality assurance standards.

DIVERTER FEATURES

- Substrate (strip) thickness: 5 mils
- Metal Button thickness: 5 mils
- Nickel-plated copper buttons
- Custom paint available
- 3M VHB adhesive backing available
- Integral anti-static available

CROSS SECTION OF A DIVERTER



CROSS SECTION OF A DIVERTER



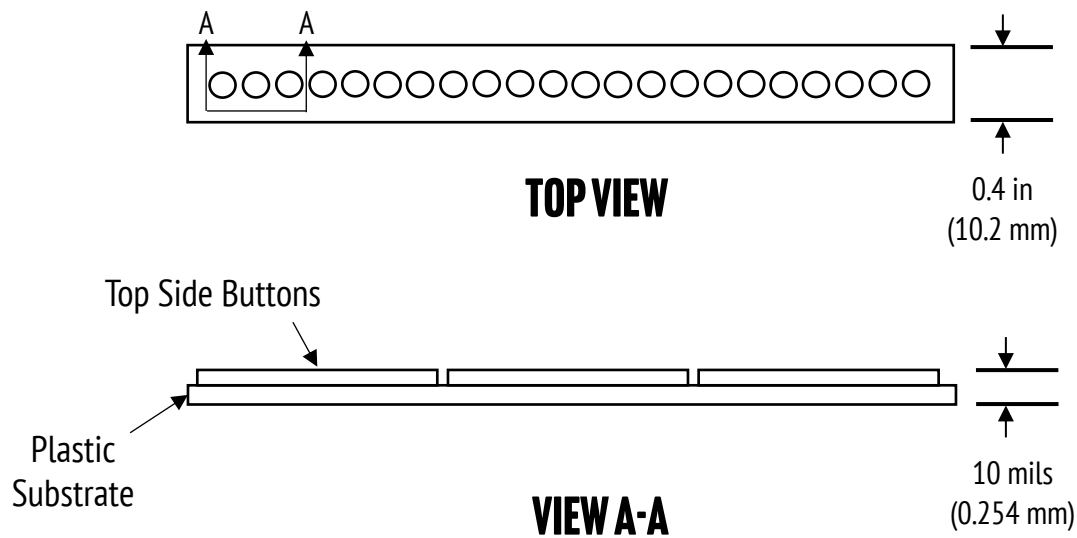
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WEIGHT & DIMENSIONS

TOP AND SIDE VIEW DRAWINGS



FULL SPECIFICATIONS

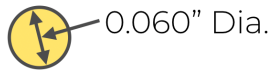
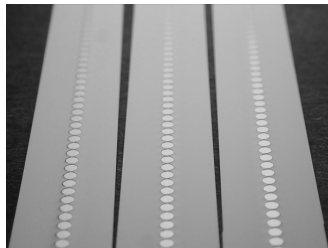
Button Shape	Substrate Width	Top Side Button Size	Button Thickness	Substrate Thickness	Overall Thickness	Diverter Weight
Large Round (LR)	0.40 (10mm)	0.125 (3.17mm) Dia.	0.005 (0.127mm)	0.005 (0.127mm)	0.01 (0.254mm)	0.06 oz/ft
Small Round (SR)	0.40 (10mm)	0.060 (1.52mm) Dia.	0.005 (0.127mm)	0.005 (0.127mm)	0.01 (0.254mm)	0.05 oz/ft
Oval (OV)	0.40 (10mm)	0.2x0.6 (5.08x1.52mm)	0.005 (0.127mm)	0.005 (0.127mm)	0.01 (0.254mm)	0.06 oz/ft

BUTTON & TERMINATION STYLES

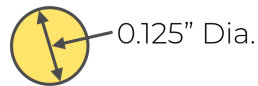
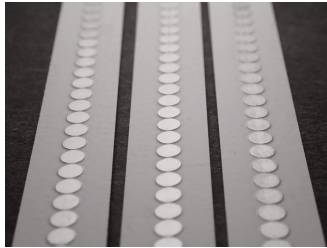
BUTTON TYPES

We offer three button types for aerospace applications:

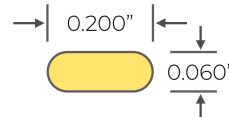
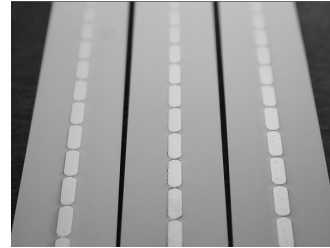
SMALL ROUND (SR)



LARGE ROUND (LR)



OVAL (OV)

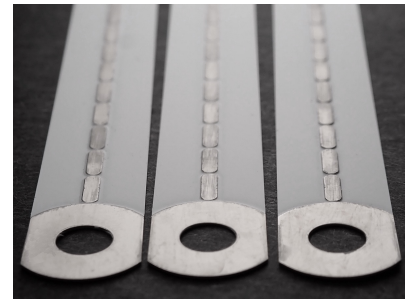
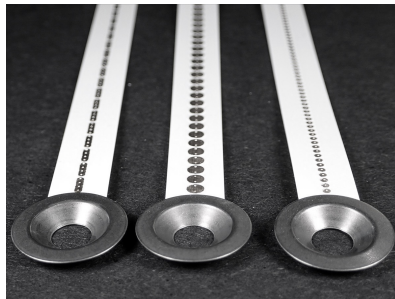


TERMINATION STYLES

The following terminations are available for any button type:

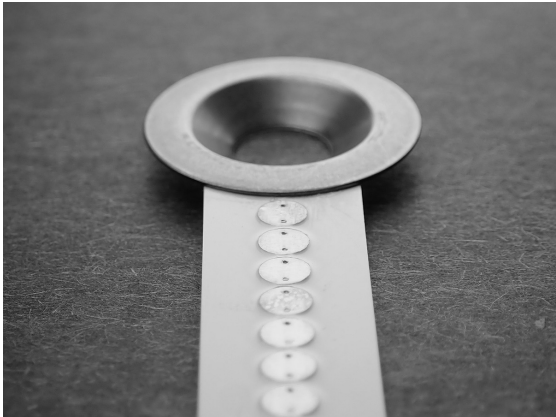
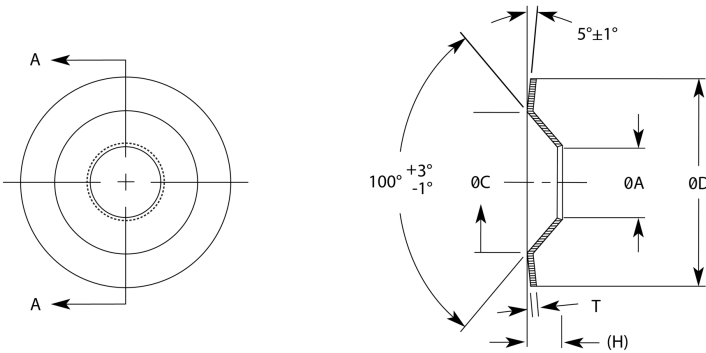
FOUR STYLES:

- Edge cut (most popular)
- 14D dimpled washer
- 10D dimpled washer
- 10F Flat washer



TERMINATION SPECS - DIMPLED WASHER

DIMPLED WASHER DRAWINGS

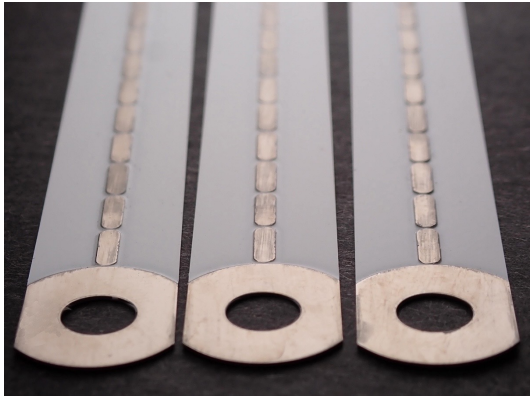
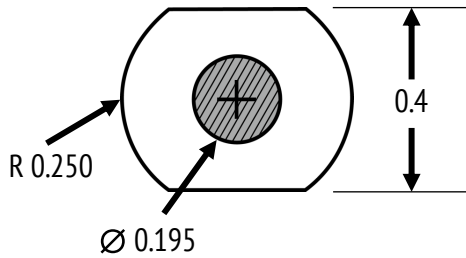


10D & 14D DIMPLED WASHER SPECIFICATIONS

Washer Type	Material	Bolt Size	ØA +0.30-.000	ØD +0.020-.005	ØC +0.010-.000	(H)	T
DD10L (10D)	Clad Aluminum 2024	10	0.192 (4.876 mm)	0.625 (15.875 mm)	0.385 (9.779 mm)	.099 (2.514 mm)	0.016 (0.416 mm)
DD416L (14D)	Clad Aluminum 2024	1/4	0.252 (6.400 mm)	0.750 (19.05 mm)	0.507 (12.877 mm)	0.125 (3.175 mm)	0.016 (0.416 mm)

TERMINATION SPECS - FLAT WASHER

FLAT WASHER DRAWINGS



FLAT WASHER SPECIFICATIONS

Washer Type	Material	Bolt Size	ID +/- 0.005	OD +/- 0.005	Width +/- 0.03
10F	Nickel-plated copper	10	0.195 (4.876 mm)	0.5 (12.7 mm)	0.40 (10 mm)



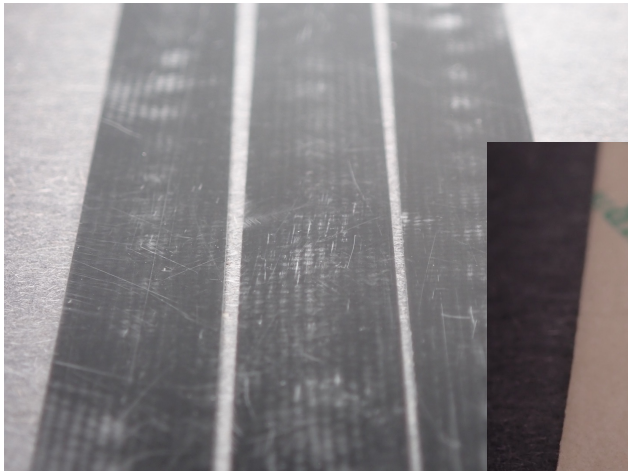
INTEGRAL ANTI-STATIC & 3M ADHESIVE BACKING

We offer integral anti-static if your project requires it.

Additionally, all of our segmented lightning diverters can be ordered with 3M VHB adhesive backing for easy installation.

Note: Base part number for integral anti-static is 100-100340.

INTEGRAL ANTI-STATIC



OPTIONAL 3M ADHESIVE BACKING



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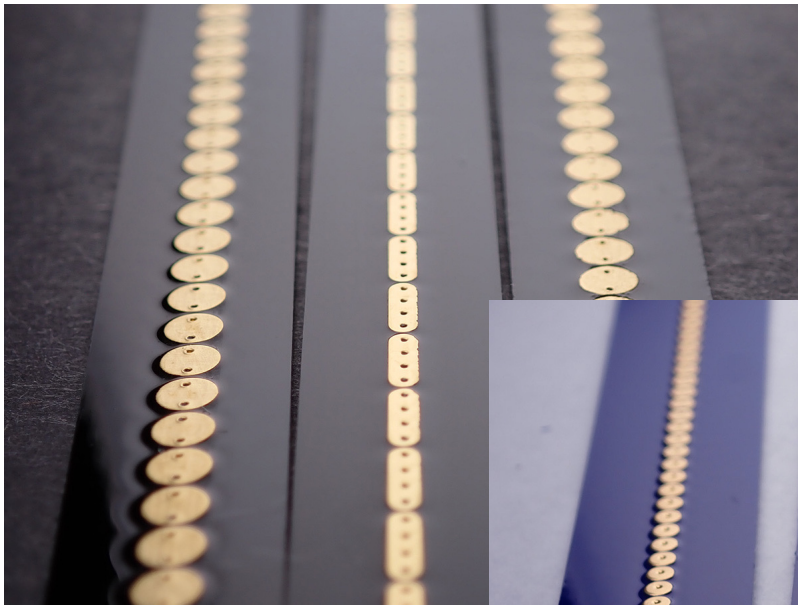
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CUSTOM PAINT

WE CAN PAINT TO YOUR SPECIFICATIONS.

Contact us about color requirements.



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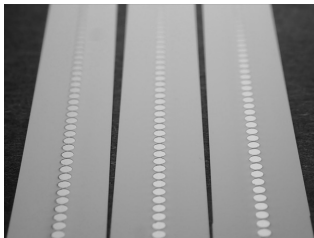


PART NUMBER BUILDER

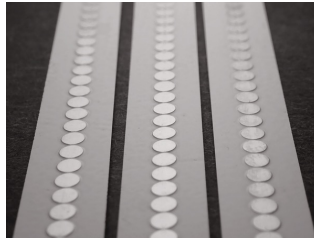
SPECIAL-ORDER PART NUMBERS

Integral Anti-Static?	Base Part Number	3M Adhesive Tape	Button Style	Termination	Paint	Length* (inches)
Yes	100-100340	1 = Yes 0 = No	LR, SR, OV	EDG, 10D, 14D, 10F	NC	Up to 450
No	100-100220	1 = Yes 0 = No	LR, SR, OV	EDG, 10D, 14D, 10F	NC	Up to 450

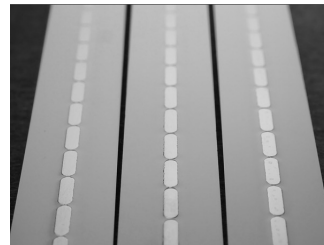
SMALL ROUND (SR)



LARGE ROUND (LR)



OVAL (OV)



PART # KEY: 100-100340-(Tape)-(Button)-(Termination)-(Color)-(Length).

Example: 1P/N 100-100340-1-OV-10D-450=Legacy Series lightning diverter with Integral anti-static, 3M tape, oval button shape, 10D washer termination, at a length of 45 inches.

*Length is expressed in inches; final digit is a decimal.

Ex: 270 = 27.0 inches. Note: Full diverter strips are 45 inches; can be cut to custom lengths or butted together with EDG termination for longer than 45" strips.

ALL PARTS ARE TESTED TO:

- RTCA/DO-160G Section 23
- SAE ARP5416B



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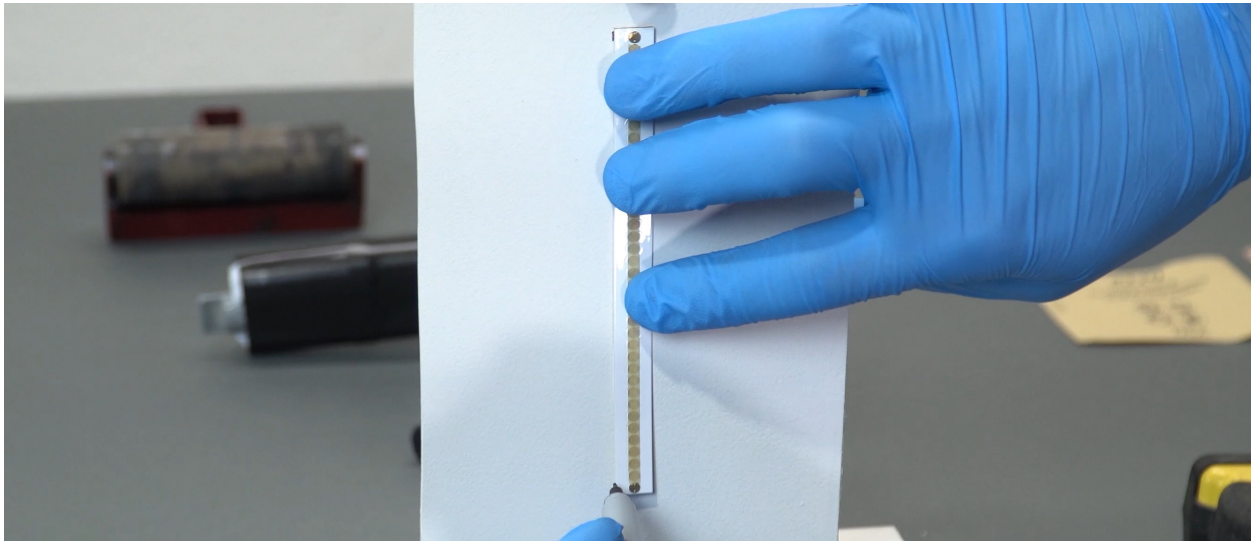
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INSTALLATION PROCESS

INSTALLATION IS EASY. WE PROVIDE:

1. Detailed PDF Installation guide with photos.
2. Installation video available in six languages - English, Portuguese, Japanese, Spanish, French and German.
3. Customer support throughout the process.



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