THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS





Molded Parts Insulation

The Gund Company utilizes a consultative approach to assist engineering teams with designing new equipment or servicing existing equipment. Our team of application engineers works with customers in these markets to understand their needs and develop solutions that meet their most demanding electrical and mechanical requirements.

VALUE THROUGH TRUSTED PERFORMANCE

www.thegundcompany.com



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GINS STANDOFF INSULATORS

Gund Insulators Description	02-03
GINS Line Card	04-05

PINS STANDOFF INSULATORS

Powermat Insulators Description	06
PINS Line Card	07-10

ISO-TP STANDOFF INSULATORS

Polyamide Insulators (Thermoplastic) Description	11
ISO-TP Line Card	12

CUSTOM COMPRESSION MOLDED COMPONENTS

Custom Molded Parts Description	13
a. Bus Clamps	
b. Housings	
c. Molded bus supports	

MATERIAL SELECTION SPECIFICATIONS & DATA SHEETS

Technical Data Sheet	14
Standoff Insulator Application Considerations	15-16

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UL Gund Standoff Insulators (GINS)

Bus Bar and Live Electrical Support You Can Rely On

THE GUND COMPANY GENERAL LINE

The Gund Company is an ISO 9001:2015 certified manufacturer and fabricator of electrical insulation materials. Our products create solutions. Our Standoff Insulators are made from UL-recognized flame-resistant fiberglass reinforced with thermoset polyester molding compounds (UL File: E354884).

Standoff Insulators from The Gund Company are ideal for supporting bus bars or other live electrical components. Our products are manufactured from UL-recognized fiberglass-reinforced, flame-resistant, thermoset polyester molding compounds, and exhibit strong mechanical and electrical insulating properties.

UL RECOGNITION

Many of our Standoff Insulators are UL-recognized panel board and switchboard accessories, compliant with the brace and support requirements of UL 891, Annex G. That listing can be found in UL File E354884.

LAB-TESTED ASSURANCE

Our Standoff Insulators are molded from a UL-recognized polymeric composite material composed of unsaturated polymer resin, cross-linked catalyst, shrink control polyester, fire retardant agent, color pigments, and glass strands. The production process is controlled in an ISO 9001:2015 manufacturing environment. Each lot is mechanically and electrically tested to ensure consistent performance and reliability for even the most demanding electrical applications.



BMC STANDOFF INSULATORS

APPLICATIONS & PERFORMANCE RATINGS

Standoff Insulators from The Gund Company are designed for indoor applications. When mounted inside a suitable electrical cabinet, the installation is considered indoors, even though the cabinet may be outdoors.

The mechanical and electrical performance ratings in this brochure and online serve as general application guidelines. Each application may require conformance to an industry standard or unique performance criteria. Our insulators are engineered to continuously withstand their rated voltage, but specific environmental conditions (such as ambient humidity and dirt) could require the de-rating of the insulator. If your engineers require specialized requirements, we welcome the opportunity to collaborate. We specialize in problem-solving and are ready to deliver tailored solutions to meet your needs.

AVAILABLE INSERT MATERIALS

The Gund Company offers a variety of threaded insert material options to suit your application. Please refer to the suffix designations in the adjacent column for guidance on selecting the appropriate material. For more information on our materials or to request a quote tailored to your requirements, contact one of our standoff insulator experts today.

PART NUMBER NOTE

Threaded insert materials are distinguished by these suffixes:

S = Steel

B = Brass

If the suffix is blank, the standard insert material is Aluminum.



ALUMINUM

GINS-XXX-XX



STEEL

GINS-XXX-XX-**S**



BRASS

GINS-XXX-XX-**B**

The Gund Company fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type. Additional data and samples are available on request.

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

GINS 3061



GINS 4610



GINS 4640



GINS 1461





GINS 2165



GINS 1603



GINS 1872

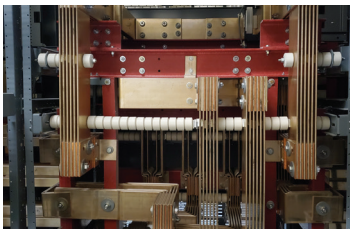


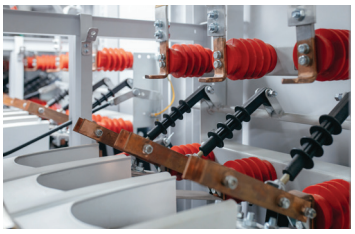
GINS 2015/2017

		ASTM		TYPICAL VALUES							
PROPERTIES		Test Method	Units	GINS 1461	GINS 1603	GINS 1872	GINS 2015/17	GINS 2165	GINS 3061	GINS 4610	GINS 4640
MECHANICAL	Tensile Strength	UL 891	lbs	4,500	2,500	4,500 - 5,500*	2,300 - 3,800*	1,200	2,300 - 4,000*	6,500	6,000
	Cantilever Strength	UL 891	lbs	2,000	800	900 - 1,300*	900 - 1,000*	300**	800 - 1,000*	2,000	1,300
	Compression Strength	ASTM D695	lbs	45,000	17,000	20,000 - 30,000*	14,000 - 15,000*	8,000	15,000 - 20,000*	30,000	30,000
	Torque Strength		ft·lbs	35	30	45	45	12	30	30	30
	Height Tolerance		in	±0.015	±0.015	±0.015	±0.015	±0.015	±0.015	±0.015	±0.015
ELECTRICAL	Dielectric Strength	ASTM D149	kV	>40	>40	>35	>25	>20	>30	>40	>60
	Arc Resistance	ASTM D495	seconds	>180	>180	>180	>180	>180	>180	>180	>180
	Flammability Index	UL 94		V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0
	Track Resistance	ASTM D2303	minutes	>600	>600	>600	>600	>600	>600	>600	>600
	Creep Distance		in	H+1.125	H+1.625	H+0.312	H+0.250	H	H+0.250	3.687	7
	Basic Impulse Level		kV	-	-	-	-	-	-	60	95

***Mechanical performance varies with height.**
****GINS 2165 products are UL recognized for support of live parts only. Its cantilever strength is below the 675 ft·lbs threshold (UL 891 Annex G) for braces. For bracing applications, please consult a TGC Sales Representative to select other models.**









The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

PRODUCT PERFORMANCE THAT KEEPS THE POWER ON

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

TGC STANDOFF INSULATORS						COMPETITOR PART NO. CROSS REFERENCE		
PART NO.	Height (in)	Diameter (in)	Thread Size (in)	Voltage	Box Quantity	Glastic®	Mar-Bal®	Penn®
GINS-2015-1A	1.500	2.000	1/4-20	1,500	150	2015-1A	4150-S2	
GINS-2015-2A	1.500	2.000	5/16-18	1,500	150	2015-2A	4150-A3/S3	
GINS-2015-3A	1.500	2.000	3/8-16	1,500	150	2015-3A	4150-A4/S4	
GINS-2015-2B	1.750	2.000	5/16-18	2,000	150	2015-2B	4175-A3	
GINS-2015-3B	1.750	2.000	3/8-16	2,000	150	2015-3B	4175-A4/S4/S5	
GINS-2015-2C	2.000	2.000	5/16-18	2,300	150	2015-2C	4200-A3	
GINS-2015-3C	2.000	2.000	3/8-16	2,300	150	2015-3C	4200-A5/S5	
GINS-2015-4C	2.000	2.000	1/2-13	2,300	150	2015-4C	4200-A6/S6	
GINS-2015-3D	2.250	2.000	3/8-16	2,700	150	2015-3D	4225-A5	
GINS-2015-4D	2.250	2.000	1/2-13	2,700	150	2015-4D	4225-A6	
GINS-2165-1A	1.000	1.130	1/4-20	600	500	2165-1A	1100-A1	
GINS-2165-1B	1.250	1.130	1/4-20	600	400	2165-18	1125-A1	
GINS-1461-1A	2.125	2.500	3/8-16	2 500	100	1461-1A	3213-A5/S5	
GINS-1461-18	2.125	2.500	1/2-13	2,500	100	1461-1B	3213-A6/S5	
GINS-1461-1C	2.125	2.500	5/8-11	2,500	100	1461-1C	3213-A8	
GINS-1461-2C	2.625	2.500	5/8-11	3,000	80			
GINS-1461-3A	5,000	2.750	3/8-16	7 500	30		6500-S10	
GINS-1461-4A	6,000	2.750	3/8-16	13,500	24		6375-S10	
GINS-1461-5A	7,000	2.750	3/8-16	13,500	24		7000-S10	
GINS-1603-2A	1.375	1.750	3/8-16	600	200	1603-2A	2138-A4	
GINS-1603-2D	1.500	1.750	3/8-16	1,500	200	1603-2D		
GINS-2035-1A	3.500	-	2.0 Bolt Hole Circle	5,000	36	2035-1		
GINS-3061-1A	1.375	1.750	1/4-20	600	200			AR3061-20A
GINS-3061-3A	1.375	1.750	3/8-16	600	200		R2137-A4/S4	AR3061-16A
GINS-3061-1B	1.500	1.750	1/4-20	1,500	200			AR3061-20B
GINS-3061-2B	1.500	1.750	5/16-18	1,500	200		R4150-A3/S3	AR3061-18B
GINS-3061-3B	1.500	1.750	3/8-16	1,500	200		R4150-A4/S4	AR3061-16B
GINS-3061-3C	1.750	1.750	3/8-16	2,000	150		R4175-A4/S4	AR3061-16C
GINS-3061-4C	1.750	1.750	1/2-13	2,000	150			AR3061-13C
GINS-3061-3D	2.000	1.750	3/8-16	2,300	150		R4200-A4/S4/S5	AR3061-16D
GINS-3061-4D	2.000	1.750	1/2-13	2,300	125			AR3061-13D
GINS-3061-3E	2.125	1.750	3/8-16	2,300	150			
GINS-3061-3F	2.250	1.750	3/8-16	2,700	100		R4225-A5/S5	AR3061-16E
GINS-3061-4F	2.250	1.750	1/2-13	2,700	100			AR3061-13E
GINS-3061-5F	2.250	1.750	5/8-11	2,700	100			AR3061-11E
GINS-3061-3G	2.500	1.750	3/8-16	2,700	100			
GINS-3061-3H	2.750	1.750	3/8-16	2,700	100			AR3061-16G
GINS-4610-15*	3.500	3.500	3/8-16	5,000	36	4610-15	6350-S10 4x2	
GINS-4610-81*	3.500	3.500	3/8-16	5,000	36		6350-S10 4x4	AR5405-16A
GINS-1872-1A	2.500	2.500	3/8-16	3,200	100	1872-1A	5250-A5/S5/S10	AR2781-16A
GINS-1872-2A	2.500	2.500	1/2-13	3,200	100	1872-2A	5250-A6/S6	AR2781-13A
GINS-1872-3F	2.625	2.500	5/8-11	3,400	100	1872-3F	5263-A8/S8	AR2781-11S
GINS-1872-1B	2.750	2.500	3/8-16	3,600	100	1872-1B	5275-A5/S5/S10	AR2781-16B
GINS-1872-2B	2.750	2.500	1/2-13	3,600	100	1872-2B	5275-A6	AR2781-13B
GINS-1872-1C	3.000	2.500	3/8-16	4,100	100	1872-1C	5300-A5/S5	AR2781-16C
GINS-1872-2C	3.000	2.500	1/2-13	4,100	100	1872-2C	5300-A6/S6	AR2781-13C
GINS-1872-1D	3.250	2.500	3/8-16	4,500	50	1872-1D	5325-A5/S5/S10	AR2781-16D
GINS-1872-2D	3.250	2.500	1/2-13	4,500	50	1872-2D	5325-A6	
GINS-1872-1E	3.500	2.500	3/8-16	5,000	50	1872-1E	5350-A5/S5/S10	AR2781-16E
GINS-1872-2E	3.500	2.500	1/2-13	5,000	50	1872-2E	5350-A6	
GINS-1872-3E	3.500	2.500	5/8-11	5,000	50	1872-3E	3550-A8/S8	
GINS-4640-15*	6.000	3.500	3/8-16	15,000	20	4640-15	600-S10 4x2	
GINS-4640-81*	6.000	3.500	3/8-16	15,000	20	4640-81	600-S10 4x4	AR5420-16A

STANDOFF INSULATOR LINE CARD

TGC STANDOFF INSULATORS						COMPETITOR PART NO. CROSS REFERENCE		
PART NO.	Height (mm)	Diameter (mm)	Thread Size (mm)	Voltage	Box Quantity	Glastic®	Mar-Bal®	Penn®
GINS-2015-M1A	38.1	50.8	M6-1.00	1,500	150		4150-A6/S6	
GINS-2015-M2A	38.1	50.8	M8-1.25	1,500	150		4150-A3/S3/M8	
GINS-2015-M3A	38.1	50.8	M10-1.50	1,500	150		4150-A4/S4/M10	
GINS-2015-M2B	44.5	50.8	M8-1.25	2,000	150		4175-A3/S3/M8	
GINS-2015-M3B	44.5	50.8	M10-1.50	2,000	150		4175-A4/S4/S5/M10	
GINS-2015-M2C	50.8	50.8	M8-1.25	2,300	150		4200-A3/S3/M8	
GINS-2015-M3C	50.8	50.8	M10-1.50	2,300	150		4200-A5/S5/M10	
GINS-2015-M4C	50.8	50.8	M12-1.75	2,300	150		4200-A6/S6/M12	
GINS-2015-M3D	57.2	50.8	M10-1.50	2,700	150		4225-A5/S5/M10	
GINS-2015-M4D	57.2	50.8	M12-1.75	2,700	150		4225-A6/S6/M12	
GINS-2165-M1A	25.0	28.6	M6-1.00	600	500	2165-3A	1100-A1/M6	AR5612-6MA
GINS-2165-M1B	32.0	28.6	M6-1.00	600	400	2165-3B	1125-A1/M6	
GINS-1461-M1A	54.0	63.5	M10-1.50	2 500	100	1463-1A	3213-A5/S5/M10	
GINS-1461-M1B	54.0	63.5	M12-1.75	2,500	100	1463-1B	3213-A6/S6/M12	
GINS-1461-M1C	54.0	63.5	M16 -2.00	2,500	100	1463-1C	3213-A8/S8/M16	
GINS-1461-M2C	66.7	63.5	M16-2.00	3,000	80			
GINS-1603-M2A	34.9	44.5	M10-1.50	600	200	1603-410		
GINS-1603-M2D	38.1	44.5	M10-1.50	1,500	200			
GINS-3061-M1A	34.9	44.5	M6-1.00	600	200			
GINS-3061-M3A	34.9	44.5	M10-1.50	600	200		R2137/A4/M10	AR3061-10MA
GINS-3061-M1B	38.1	44.5	M6-1.00	1,500	200			
GINS-3061-M2B	38.1	44.5	M8-1.25	1,500	200		R4150-A3/S3/M8	AR3061-8MB
GINS-3061-M3B	38.1	44.5	M10-1.50	1,500	200		R4150-A4/S4/M10	
GINS-3061-M3C	44.5	44.5	M10-1.50	2,000	150		R4175-A4/S4/M10	AR3061-10MC
GINS-3061-M4C	44.5	44.5	M12-1.75	2,000	150			
GINS-3061-M3D	50.8	44.5	M10-1.50	2,300	150		R4200-A4/S4/M10	
GINS-3061-M4D	50.8	44.5	M12-1.75	2,300	125			
GINS-3061-M3E	54.0	44.5	M10-1.50	2,300	150			
GINS-3061-M3F	57.2	44.5	M10-1.50	2,700	100		R4200-A4/S4/S5/M10	
GINS-3061-M4F	57.2	44.5	M12-1.75	2,700	100			
GINS-3061-M5F	57.2	44.5	M16-2.00	2,700	100			
GINS-3061-M3G	63.5	44.5	M10-1.50	2,700	100			
GINS-3061-M3H	69.9	44.5	M10-1.50	2,700	100			
GINS-2017-M2A	38.0	50.8	M8-1.25	1,500	150	2017-1C		
GINS-2017-M2C	50.0	50.8	M8-1.25	2,300	150	2017-2C		
GINS-2017-M3C	50.0	50.8	M10-1.50	2,300	150	2017-3C		
GINS-4610-M15*	88.9	88.9	M10-1.50	5,000	36			
GINS-4610-M81*	88.9	88.9	M10-1.50	5,000	36		6350-S81-M10	
GINS-1872-M1A	63.5	63.5	M10-1.50	3,200	100	1874-1A	5250-A5/S5/S10/M10	
GINS-1872-M2A	63.5	63.5	M12-1.75	3,200	100	1874-2A	5250-A6/S6/M12	
GINS-1872-M3F	66.7	63.5	M16-2.00	3,400	100	1874-3F	5263-A8/S8/M16	
GINS-1872-M1B	69.9	63.5	M10-1.50	3,600	100	1874-1B	5275-A5/S5/S10/M10	
GINS-1872-M2B	69.9	63.5	M12-1.75	3,600	100	1874-2B	5275-A6/M12	
GINS-1872-M1C	76.2	63.5	M10-1.50	4,100	100	1874-1C	5300-A5/S5/M10	
GINS-1872-M2C	76.2	63.5	M12-1.75	4,100	100	1874-2C	5300-A6/S6/M12	
GINS-1872-M1D	82.6	63.5	M10-1.50	4,500	50	1874-1D	5325-A5/S5/S10/M10	
GINS-1872-M2D	82.6	63.5	M12-1.75	4,500	50	1874-2D	5325-A6/M12	
GINS-1872-M1E	88.9	63.5	M10-1.50	5,000	50	1874-1E	5350-A5/S5/S10/M10	
GINS-1872-M2E	88.9	63.5	M12-1.75	5,000	50	1874-2E	5350-A6/S6/M12	
GINS-1872-M3E	88.9	63.5	M16-2.00	5,000	50	1874-3E	5350-A8/58/M16	
GINS-4640-M1S*	152.5	88.9	M10-1.50	15,000	20			
GINS-4640-M81*	152.5	88.9	M10-1.50	15,000	20			

***Indicates that these part numbers are currently only available with steel inserts. Part comparisons are assumed correct based on competitor literature.**

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MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

IEC Powermat Insulators (PINS)

Expanded Standard Offerings for UL and IEC Electrical Systems



H SERIES



HH SERIES



RH SERIES



D SERIES



C SERIES

The Gund Company offers an expanded range of standard standoff insulators designed to support a wide variety of electrical insulation and mechanical support applications. These solutions provide reliable performance, consistent quality, and a broad selection of sizes, materials, and configurations to meet common industry requirements.

Manufactured using high-performance thermoset and thermoplastic materials, these insulators offer excellent electrical properties, dimensional stability, and cost efficiency for high-volume applications.



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Gund P/N	Powermat P/N	Height (mm)	AF (mm)	Nominal Voltage (AC/DC)	Insulator Family	Material	Insert Length (mm)	R (mm)	Thread Size
PINS-14HH415 (M4)	14HH 415 (M4)	15	14	600/800	FULL HEX	BMC	3.5		M4
PINS-14HH420 (M4)	14HH 420 (M4)	20	14	800/1100	FULL HEX	BMC	5		M4
PINS-14HH425 (M4)	14HH 425 (M4)	25	14	1000/1400	FULL HEX	BMC	5		M4
PINS-14HH515 (M5)	14HH 515 (M5)	15	14	600/800	FULL HEX	BMC	3.5		M5
PINS-14HH520 (M5)	14HH 520 (M5)	20	14	800/1100	FULL HEX	BMC	5		M5
PINS-14HH525 (M5)	14HH 525 (M5)	25	14	1000/1400	FULL HEX	BMC	7		M5
PINS-14HH527 (M5)	14HH 527 (M5)	27	14	1000/1400	FULL HEX	BMC	7		M5
PINS-20HH520 (M5)	20HH 520 (M5)	20	20	800/1100	FULL HEX	BMC	5		M5
PINS-20HH525 (M5)	20HH 525 (M5)	25	20	1000/1400	FULL HEX	BMC	7		M5
PINS-20HH530 (M5)	20HH 530 (M5)	30	20	1200/1600	FULL HEX	BMC	7		M5
PINS-20HH535 (M5)	20HH 535 (M5)	35	20	1400/1900	FULL HEX	BMC	12		M5
PINS-20HH540 (M5)	20HH 540 (M5)	40	20	1600/2200	FULL HEX	BMC	12		M5
PINS-20HH545 (M5)	20HH 545 (M5)	45	20	1800/2500	FULL HEX	BMC	12		M5
PINS-20HH550 (M5)	20HH 550 (M5)	50	20	2000/2800	FULL HEX	BMC	12		M5
PINS-20HH555 (M5)	20HH 555 (M5)	55	20	2200/3000	FULL HEX	BMC	12		M5
PINS-20HH560 (M5)	20HH 560 (M5)	60	20	2400/3300	FULL HEX	BMC	12		M5
PINS-20HH620 (M6)	20HH 620 (M6)	20	20	800/1100	FULL HEX	BMC	5		M6
PINS-20HH625 (M6)	20HH 625 (M6)	25	20	1000/1400	FULL HEX	BMC	7		M6
PINS-20HH630 (M6)	20HH 630 (M6)	30	20	1200/1600	FULL HEX	BMC	7		M6
PINS-20HH635 (M6)	20HH 635 (M6)	35	20	1400/1900	FULL HEX	BMC	12		M6
PINS-20HH640 (M6)	20HH 640 (M6)	40	20	1600/2200	FULL HEX	BMC	12		M6
PINS-20HH645 (M6)	20HH 645 (M6)	45	20	1800/2500	FULL HEX	BMC	12		M6
PINS-20HH650 (M6)	20HH 650 (M6)	50	20	2000/2800	FULL HEX	BMC	12		M6
PINS-20HH655 (M6)	20HH 655 (M6)	55	20	2200/3000	FULL HEX	BMC	12		M6
PINS-20HH660 (M6)	20HH 660 (M6)	60	20	2400/3300	FULL HEX	BMC	12		M6
PINS-20HH820 (M8)	20HH 820 (M8)	20	20	800/1100	FULL HEX	BMC	5		M8
PINS-20HH825 (M8)	20HH 825 (M8)	25	20	1000/1400	FULL HEX	BMC	7		M8
PINS-20HH830 (M8)	20HH 830 (M8)	30	20	1200/1600	FULL HEX	BMC	9		M8
PINS-20HH835 (M8)	20HH 835 (M8)	35	20	1400/1900	FULL HEX	BMC	12		M8
PINS-20HH845 (M8)	20HH 845 (M8)	45	20	1800/2500	FULL HEX	BMC	12		M8
PINS-20HH850 (M8)	20HH 850 (M8)	50	20	2000/2800	FULL HEX	BMC	17		M8
PINS-20HH860 (M8)	20HH 860 (M8)	60	20	2400/3300	FULL HEX	BMC	17		M8
PINS-25HH625 (M6)	25HH 625 (M6)	25	25	1000/1400	FULL HEX	BMC	7		M6
PINS-25HH630 (M6)	25HH 630 (M6)	30	25	1200/1600	FULL HEX	BMC	9		M6
PINS-25HH635 (M6)	25HH 635 (M6)	35	25	1400/1900	FULL HEX	BMC	12		M6
PINS-25HH640 (M6)	25HH 640 (M6)	40	25	1600/2200	FULL HEX	BMC	12		M6
PINS-25HH645 (M6)	25HH 645 (M6)	45	25	1800/2500	FULL HEX	BMC	12		M6
PINS-25HH650 (M6)	25HH 650 (M6)	50	25	2000/2800	FULL HEX	BMC	12		M6
PINS-25HH655 (M6)	25HH 655 (M6)	55	25	2200/3000	FULL HEX	BMC	12		M6
PINS-25HH660 (M6)	25HH 660 (M6)	60	25	2400/3300	FULL HEX	BMC	12		M6
PINS-25HH680 (M6)	25HH 680 (M6)	80	25	3200/4400	FULL HEX	BMC	12		M6
PINS-25HH6100 (M6)	25HH 6100 (M6)	100	25	4000/5600	FULL HEX	BMC	12		M6
PINS-25HH825 (M8)	25HH 825 (M8)	25	25	1000/1400	FULL HEX	BMC	7		M8
PINS-25HH830 (M8)	25HH 830 (M8)	30	25	1200/1600	FULL HEX	BMC	9		M8
PINS-25HH835 (M8)	25HH 835 (M8)	35	25	1400/1900	FULL HEX	BMC	12		M8
PINS-25HH840 (M8)	25HH 840 (M8)	40	25	1600/2200	FULL HEX	BMC	12		M8
PINS-25HH845 (M8)	25HH 845 (M8)	45	25	1800/2500	FULL HEX	BMC	12		M8
PINS-25HH850 (M8)	25HH 850 (M8)	50	25	2000/2800	FULL HEX	BMC	17		M8
PINS-25HH855 (M8)	25HH 855 (M8)	55	25	2200/3000	FULL HEX	BMC	17		M8
PINS-25HH860 (M8)	25HH 860 (M8)	60	25	2400/3300	FULL HEX	BMC	17		M8
PINS-25HH1030 (M10)	25HH 1030 (M10)	30	25	1200/1600	FULL HEX	BMC	9		M10
PINS-35HH830 (M8)	35HH 830 (M8)	30	35	1200/1600	FULL HEX	BMC	9		M8
PINS-35HH835 (M8)	35HH 835 (M8)	35	35	1400/1900	FULL HEX	BMC	12		M8
PINS-35HH840 (M8)	35HH 840 (M8)	40	35	1600/2200	FULL HEX	BMC	12		M8
PINS-35HH845 (M8)	35HH 845 (M8)	45	35	1800/2500	FULL HEX	BMC	12		M8
PINS-35HH850 (M8)	35HH 850 (M8)	50	35	2000/2800	FULL HEX	BMC	17		M8
PINS-35HH855 (M8)	35HH 855 (M8)	55	35	2200/3000	FULL HEX	BMC	17		M8

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Gund P/N	Powermat P/N	Height (mm)	AF (mm)	Nominal Voltage (AC/DC)	Insulator Family	Material	Insert Length (mm)	R (mm)	Thread Size
PINS-35HH860 (M8)	35HH 860 (M8)	60	35	2400/3300	FULL HEX	BMC	17		M8
PINS-35HH1030 (M10)	35HH 1030 (M10)	30	35	1200/1600	FULL HEX	BMC	9		M10
PINS-35HH1035 (M10)	35HH 1035 (M10)	35	35	1400/1900	FULL HEX	BMC	12		M10
PINS-35HH1040 (M10)	35HH 1040 (M10)	40	35	1600/2200	FULL HEX	BMC	12		M10
PINS-35HH1045 (M10)	35HH 1045 (M10)	45	35	1800/2500	FULL HEX	BMC	12		M10
PINS-35HH1050 (M10)	35HH 1050 (M10)	50	35	2000/2800	FULL HEX	BMC	17		M10
PINS-35HH1055 (M10)	35HH 1055 (M10)	55	35	2200/3000	FULL HEX	BMC	17		M10
PINS-35HH1060 (M10)	35HH 1060 (M10)	60	35	2400/3300	FULL HEX	BMC	17		M10
PINS-45HH1035 (M10)	45HH 1035 (M10)	35	45	1400/1900	FULL HEX	BMC	12		M10
PINS-45HH1040 (M10)	45HH 1040 (M10)	40	45	1600/2200	FULL HEX	BMC	12		M10
PINS-45HH1045 (M10)	45HH 1045 (M10)	45	45	1800/2500	FULL HEX	BMC	12		M10
PINS-45HH1050 (M10)	45HH 1050 (M10)	50	45	2000/2800	FULL HEX	BMC	17		M10
PINS-45HH1055 (M10)	45HH 1055 (M10)	55	45	2200/3000	FULL HEX	BMC	17		M10
PINS-45HH1060 (M10)	45HH 1060 (M10)	60	45	2400/3300	FULL HEX	BMC	17		M10
PINS-45HH1070 (M10)	45HH 1070 (M10)	70	45	2800/3900	FULL HEX	BMC	22		M10
PINS-45HH1080 (M10)	45HH 1080 (M10)	80	45	3200/4400	FULL HEX	BMC	22		M10
PINS-45HH1090 (M10)	45HH 1090 (M10)	90	45	3600/5000	FULL HEX	BMC	22		M10
PINS-45HH10100 (M10)	45HH 10100 (M10)	100	45	4000/5600	FULL HEX	BMC	22		M10
PINS-45HH1235 (M12)	45HH 1235 (M12)	35	45	1400/1900	FULL HEX	BMC	12		M12
PINS-45HH1240 (M12)	45HH 1240 (M12)	40	45	1600/2200	FULL HEX	BMC	12		M12
PINS-45HH1245 (M12)	45HH 1245 (M12)	45	45	1800/2500	FULL HEX	BMC	12		M12
PINS-45HH1250 (M12)	45HH 1250 (M12)	50	45	2000/2800	FULL HEX	BMC	17		M12
PINS-45HH1255 (M12)	45HH 1255 (M12)	55	45	2200/3000	FULL HEX	BMC	17		M12
PINS-45HH1260 (M12)	45HH 1260 (M12)	60	45	2400/3300	FULL HEX	BMC	17		M12
PINS-45HH1270 (M12)	45HH 1270 (M12)	70	45	2800/3900	FULL HEX	BMC	22		M12
PINS-45HH1280 (M12)	45HH 1280 (M12)	80	45	3200/4400	FULL HEX	BMC	22		M12
PINS-45HH1290 (M12)	45HH 1290 (M12)	90	45	3600/5000	FULL HEX	BMC	22		M12
PINS-45HH12100 (M12)	45HH 12100 (M12)	100	45	4000/5600	FULL HEX	BMC	22		M12
PINS-55HH1050 (M10)	55HH 1050 (M10)	50	55	2000/2800	FULL HEX	BMC	17		M10
PINS-55HH1060 (M10)	55HH 1060 (M10)	60	55	2400/3300	FULL HEX	BMC	17		M10
PINS-20RH520 (M5)	20RH 520 (M5)	20	20	800/1100	ROUND HEX	BMC	5		M5
PINS-20RH525 (M5)	20RH 525 (M5)	25	20	1000/1400	ROUND HEX	BMC	7		M5
PINS-20RH616 (M6)	20RH 616 (M6)	16	20	600/800	ROUND HEX	BMC	5		M6
PINS-20RH620 (M6)	20RH 620 (M6)	20	20	800/1100	ROUND HEX	BMC	5		M6
PINS-20RH625 (M6)	20RH 625 (M6)	25	20	1000/1400	ROUND HEX	BMC	7		M6
PINS-20RH630 (M6)	20RH 630 (M6)	30	20	1200/1600	ROUND HEX	BMC	7		M6
PINS-20RH635 (M6)	20RH 635 (M6)	35	20	1400/1900	ROUND HEX	BMC	12		M6
PINS-20RH640 (M6)	20RH 640 (M6)	40	20	1600/2200	ROUND HEX	BMC	12		M6
PINS-20RH645 (M6)	20RH 645 (M6)	45	20	1800/2500	ROUND HEX	BMC	12		M6
PINS-20RH650 (M6)	20RH 650 (M6)	50	20	2000/2800	ROUND HEX	BMC	12		M6
PINS-20RH830 (M8)	20RH 830 (M8)	30	20	1200/1600	ROUND HEX	BMC	9		M8
PINS-20RH835 (M8)	20RH 835 (M8)	35	20	1400/1900	ROUND HEX	BMC	12		M8
PINS-20RH840 (M8)	20RH 840 (M8)	40	20	1600/2200	ROUND HEX	BMC	12		M8
PINS-20RH845 (M8)	20RH 845 (M8)	45	20	1800/2500	ROUND HEX	BMC	12		M8
PINS-20RH850 (M8)	20RH 850 (M8)	50	20	2000/2800	ROUND HEX	BMC	17		M8
PINS-30RH830 (M8)	30RH 830 (M8)	30	30	1200/1600	ROUND HEX	BMC	9		M8
PINS-30RH835 (M8)	30RH 835 (M8)	35	30	1400/1900	ROUND HEX	BMC	12		M8
PINS-30RH840 (M8)	30RH 840 (M8)	40	30	1600/2200	ROUND HEX	BMC	12		M8
PINS-30RH1030 (M10)	30RH 1030 (M10)	30	30	1200/1600	ROUND HEX	BMC	9		M10
PINS-30RH1035 (M10)	30RH 1035 (M10)	35	30	1400/1900	ROUND HEX	BMC	12		M10
PINS-30RH1040 (M10)	30RH 1040 (M10)	40	30	1600/2200	ROUND HEX	BMC	12		M10
PINS-40RH830 (M8)	40RH 830 (M8)	30	40	1200/1600	ROUND HEX	BMC	12		M8
PINS-40RH835 (M8)	40RH 835 (M8)	35	40	1400/1900	ROUND HEX	BMC	12		M8
PINS-40RH840 (M8)	40RH 840 (M8)	40	40	1600/2200	ROUND HEX	BMC	12		M8
PINS-40RH850 (M8)	40RH 850 (M8)	50	40	2000/2800	ROUND HEX	BMC	12		M8
PINS-40RH855 (M8)	40RH 855 (M8)	55	40	2200/3000	ROUND HEX	BMC	12		M8
PINS-40RH1030 (M10)	40RH 1030 (M10)	30	40	1200/1600	ROUND HEX	BMC	9		M10

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Gund P/N	Powermat P/N	Height (mm)	AF (mm)	Nominal Voltage (AC/DC)	Insulator Family	Material	Insert Length (mm)	R (mm)	Thread Size
PINS-40RH1035 (M10)	40RH 1035 (M10)	35	40	1400/1900	ROUND HEX	BMC	12		M10
PINS-40RH1040 (M10)	40RH 1040 (M10)	40	40	1600/2200	ROUND HEX	BMC	12		M10
PINS-40RH1045 (M10)	40RH 1045 (M10)	45	40	1800/2500	ROUND HEX	BMC	12		M10
PINS-40RH1050 (M10)	40RH 1050 (M10)	50	40	2000/2800	ROUND HEX	BMC	17		M10
PINS-40RH1055 (M10)	40RH 1055 (M10)	55	40	2200/3000	ROUND HEX	BMC	17		M10
PINS-40RH1060 (M10)	40RH 1060 (M10)	60	40	2400/3300	ROUND HEX	BMC	17		M10
PINS-40RH1065 (M10)	40RH 1065 (M10)	65	40	2600/3600	ROUND HEX	BMC	17		M10
PINS-40RH1070 (M10)	40RH 1070 (M10)	70	40	2800/3900	ROUND HEX	BMC	22		M10
PINS-40RH1240 (M12)	40RH 1240 (M12)	40	40	1600/2200	ROUND HEX	BMC	12		M12
PINS-40RH1245 (M12)	40RH 1245 (M12)	45	40	1800/2500	ROUND HEX	BMC	12		M12
PINS-40RH1250 (M12)	40RH 1250 (M12)	50	40	2000/2800	ROUND HEX	BMC	17		M12
PINS-40RH1255 (M12)	40RH 1255 (M12)	55	40	2200/3000	ROUND HEX	BMC	17		M12
PINS-40RH1260 (M12)	40RH 1260 (M12)	60	40	2400/3300	ROUND HEX	BMC	17		M12
PINS-40RH1265 (M12)	40RH 1265 (M12)	65	40	2600/3600	ROUND HEX	BMC	17		M12
PINS-40RH1270 (M12)	40RH 1270 (M12)	70	40	2800/3900	ROUND HEX	BMC	22		M12
PINS-60RH1040 (M10)	60RH 1040 (M10)	40	60	1600/2200	ROUND HEX	BMC	12		M10
PINS-60RH1050 (M10)	60RH 1050 (M10)	50	60	2000/2800	ROUND HEX	BMC	17		M10
PINS-60RH1060 (M10)	60RH 1060 (M10)	60	60	2400/3300	ROUND HEX	BMC	17		M10
PINS-60RH1070 (M10)	60RH 1070 (M10)	70	60	2800/3900	ROUND HEX	BMC	22		M10
PINS-60RH1650 (M16)	60RH 1650 (M16)	50	60	2000/2800	ROUND HEX	BMC	17		M16
PINS-60RH1660 (M16)	60RH 1660 (M16)	60	60	2400/3300	ROUND HEX	BMC	17		M16
PINS-60RH1670 (M16)	60RH 1670 (M16)	70	60	2800/3900	ROUND HEX	BMC	22		M16
PINS-60RH1680 (M16)	60RH 1680 (M16)	80	60	3200/4400	ROUND HEX	BMC	26		M16
PINS-60RH1240 (M12)	60RH 1240 (M12)	40	60	1600/2200	ROUND HEX	BMC	12		M12
PINS-60RH1250 (M12)	60RH 1250 (M12)	50	60	2000/2800	ROUND HEX	BMC	17		M12
PINS-60RH1260 (M12)	60RH 1260 (M12)	60	60	2400/3300	ROUND HEX	BMC	17		M12
PINS-60RH1270 (M12)	60RH 1270 (M12)	70	60	2800/3900	ROUND HEX	BMC	22		M12
PINS-60RH1280 (M12)	60RH 1280 (M12)	80	60	3200/4400	ROUND HEX	BMC	22		M12
PINS-H1035 (M10)	H 1035 (M10)	35	32	1400/1900	HEXAGONAL	BMC	12	26	M10
PINS-MH1035 (M10)	MH 1035 (M10)	35	40	1400/1900	HEXAGONAL	BMC	12	33	M10
PINS-H640 (M6)	H 640 (M6)	40	38	1600/2200	HEXAGONAL	BMC	12	30	M6
PINS-H840 (M8)	H 840 (M8)	40	39	1600/2200	HEXAGONAL	BMC	12	31	M8
PINS-H1040 (M10)	H 1040 (M10)	40	38	1600/2200	HEXAGONAL	BMC	12	30	M10
PINS-H645 (M6)	H 645 (M6)	45	40	1800/2500	HEXAGONAL	BMC	12	32	M6
PINS-H845 (M8)	H 845 (M8)	45	40	1800/2500	HEXAGONAL	BMC	12	32	M8
PINS-H1045 (M10)	H 1045 (M10)	45	40	1800/2500	HEXAGONAL	BMC	12	32	M10
PINS-H650 (M6)	H 650 (M6)	50	46	2000/2800	HEXAGONAL	BMC	12	35	M6
PINS-H850 (M8)	H 850 (M8)	50	46	2000/2800	HEXAGONAL	BMC	17	35	M8
PINS-1050	H 1050 (M10)	50	46	2000/2800	HEXAGONAL	BMC	17	35	M10
PINS-1050	ENH 1050 (M10)	50	50	2000/2800	HEXAGONAL	BMC	17	44	M10
PINS-1250	H 1250 (M12)	50	46	2000/2800	HEXAGONAL	BMC	17	35	M12
PINS-H860 (M8)	H 860 (M8)	60	50	2400/3300	HEXAGONAL	BMC	17	38	M8
PINS-1060	H 1060 (M10)	60	50	2400/3300	HEXAGONAL	BMC	17	38	M10
PINS-H1260 (M12)	H 1260 (M12)	60	50	2400/3300	HEXAGONAL	BMC	17	38	M12
PINS-ENH1660 (M16)	ENH 1660 (M16)	60	60	2400/3300	HEXAGONAL	BMC	22	55	M16
PINS-H865 (M8)	H 865 (M8)	65	55	2600/3600	HEXAGONAL	BMC	17	41	M8
PINS-H1065 (M10)	H 1065 (M10)	65	55	2600/3600	HEXAGONAL	BMC	17	41	M10
PINS-H1265 (M12)	H 1265 (M12)	65	55	2600/3600	HEXAGONAL	BMC	17	41	M12
PINS-H1070 (M10)	H 1070 (M10)	70	55	2800/3900	HEXAGONAL	BMC	22	41	M10
PINS-H1270 (M12)	H 1270 (M12)	70	55	2800/3900	HEXAGONAL	BMC	22	41	M12
PINS-1670	H 1670 (M16)	70	55	2800/3900	HEXAGONAL	BMC	22	41	M16
PINS-1075	H 1075 (M10)	75	53	3000/4200	HEXAGONAL	BMC	22	42	M10
PINS-1275	H 1275 (M12)	75	53	3000/4200	HEXAGONAL	BMC	22	42	M12
PINS-H1076E (M10)	H 1076E (M10)	76	50	3000/4200	HEXAGONAL	BMC	22	34	M10
PINS-H1276E (M12)	H 1276E (M12)	76	50	3000/4200	HEXAGONAL	BMC	22	34	M12

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Gund P/N	Powermat P/N	Height (mm)	AF (mm)	Nominal Voltage (AC/DC)	Insulator Family	Material	Insert Length (mm)	R (mm)	Thread Size
PINS-D420 (M4)	D 420 (M4)	20	18	800/1100	DRUM	BMC	5	14	M4
PINS-D620 (M4)	D 620 (M4)	20	18	800/1100	DRUM	BMC	5	14.5	M4
PINS-D425 (M4)	D 425 (M4)	25	21	1000/1400	DRUM	BMC	7	16	M4
PINS-D625 (M6)	D 625 (M6)	25	21	1000/1400	DRUM	BMC	7	16	M6
PINS-D630 (M6)	D 630 (M6)	30	33	1200/1600	DRUM	BMC	9	25	M6
PINS-D830 (M8)	D 830 (M8)	30	33	1200/1600	DRUM	BMC	9	26	M8
PINS-D635 (M6)	D 635 (M6)	35	32	1400/1900	DRUM	BMC	12	26	M6
PINS-D835 (M8)	D 835 (M8)	35	32	1400/1900	DRUM	BMC	12	26	M8
PINS-D1035 (M10)	D 1035 (M10)	35	32	1400/1900	DRUM	BMC	12	26	M10
PINS-D840 (M8)	D 840 (M8)	40	39	1600/2200	DRUM	BMC	12	30	M8
PINS-D1040 (M10)	D 1040 (M10)	40	39	1600/2200	DRUM	BMC	12	31	M10
PINS-D845 (M8)	D 845 (M8)	45	40	1800/2500	DRUM	BMC	12	31	M8
PINS-D1045 (M10)	D 1045 (M10)	45	41	1800/2500	DRUM	BMC	12	32	M10
PINS-D1245 (M12)	D 1245 (M12)	45	41	1800/2500	DRUM	BMC	12	32	M12
PINS-D850 (M8)	D 850 (M8)	50	48	2000/2800	DRUM	BMC	17	36	M8
PINS-D1050 (M10)	D 1050 (M10)	50	48	2000/2800	DRUM	BMC	17	35	M10
PINS-D1250 (M12)	D 1250 (M12)	50	48	2000/2800	DRUM	BMC	17	35	M12
PINS-D851E (M8)	D 851E (M8)	51	35	2040/2800	DRUM	BMC	17	27	M8
PINS-D1051E (M10)	D 1051E (M10)	51	35	2040/2800	DRUM	BMC	17	27	M10
PINS-D860 (M8)	D 860 (M8)	60	52	2400/3300	DRUM	BMC	17	38	M8
PINS-D1060 (M10)	D 1060 (M10)	60	52	2400/3300	DRUM	BMC	17	37	M10
PINS-D1260 (M12)	D 1260 (M12)	60	52	2400/3300	DRUM	BMC	17	37	M12
PINS-D865 (M8)	D 865 (M8)	65	55	2600/3600	DRUM	BMC	22	41	M8
PINS-D1065 (M10)	D 1065 (M10)	65	55	2600/3600	DRUM	BMC	22	41	M10
PINS-D1265 (M12)	D 1265 (M12)	65	55	2600/3600	DRUM	BMC	22	41	M12
PINS-D1070 (M10)	D 1070 (M10)	70	55	2800/3900	DRUM	BMC	22	42	M10
PINS-D1270 (M12)	D 1270 (M12)	70	55	2800/3900	DRUM	BMC	22	42	M12
PINS-D1075 (M10)	D 1075 (M10)	75	55	3000/4200	DRUM	BMC	22	42	M10
PINS-D1275 (M12)	D 1275 (M12)	75	55	3000/4200	DRUM	BMC	22	42	M12
PINS-D1276 (M12)	D 1276 (M12)	76	50	3000/4200	DRUM	BMC	22	34	M12
PINS-C520 (M5)	C 520 (M5)	20		800/1100	CYLINDRICAL	BMC	5	20	M5
PINS-C620 (M6)	C 620 (M6)	20		800/1100	CYLINDRICAL	BMC	5	20	M6
PINS-C625 (M6)	C 625 (M6)	25		1000/1400	CYLINDRICAL	BMC	7	25	M6
PINS-C630 (M6)	C 630 (M6)	30		1200/1600	CYLINDRICAL	BMC	9	30	M6
PINS-C830 (M8)	C 830 (M8)	30		1200/1600	CYLINDRICAL	BMC	9	30	M8
PINS-C635 (M6)	C 635 (M6)	35		1400/1900	CYLINDRICAL	BMC	12	35	M6
PINS-C835 (M8)	C 835 (M8)	35		1400/1900	CYLINDRICAL	BMC	12	35	M8
PINS-C640 (M6)	C 640 (M6)	40		1600/2200	CYLINDRICAL	BMC	12	40	M6
PINS-C840 (M8)	C 840 (M8)	40		1600/2200	CYLINDRICAL	BMC	12	40	M8
PINS-C1040 (M10)	C 1040 (M10)	40		1600/2200	CYLINDRICAL	BMC	12	40	M10
PINS-C645 (M6)	C 645 (M6)	45		1800/2500	CYLINDRICAL	BMC	12	45	M6
PINS-C845 (M8)	C 845 (M8)	45		1800/2500	CYLINDRICAL	BMC	12	45	M8
PINS-C850 (M8)	C 850 (M8)	50		2000/2800	CYLINDRICAL	BMC	17	50	M8
PINS-C1050 (M10)	C 1050 (M10)	50		2000/2800	CYLINDRICAL	BMC	17	50	M10
PINS-C1250 (M12)	C 1250 (M12)	50		2000/2800	CYLINDRICAL	BMC	17	50	M12
PINS-C1060 (M10)	C 1060 (M10)	60		2400/3300	CYLINDRICAL	BMC	17	50	M10
PINS-C1260 (M12)	C 1260 (M12)	60		2400/3300	CYLINDRICAL	BMC	17	50	M12
PINS-C1070 (M10)	C 1070 (M10)	70		2800/3900	CYLINDRICAL	BMC	22	50	M10
PINS-C1270 (M12)	C 1270 (M12)	70		2800/3900	CYLINDRICAL	BMC	22	50	M12

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

ISO-TP Standoff Insulators

Glass Fiber-Reinforced Polyamide 66 Resin

ISO-TP Standoff Insulators are a glass fiber-reinforced polyamide 66 resin. It's a more robust material, both mechanically and electrically, compared to sheet molding and dough molding compounds. The flammability index of this material is V0 as per UL 94. Polyamide 66 has high abrasive resistance, good insulating properties, and resistance to organic chemicals like alkalies.



UL RECOGNITION

ISO-TP Standoff Insulators from The Gund Company are UL recognized panelboard and switchboard accessories that comply with the brace and support requirements of UL 891 Annex G. The listing can be found in the UL file E314972.

LAB TESTED ASSURANCE

ISO-TP Standoff Insulators are molded from a UL recognized Polyamide 66. The production process is controlled in an ISO 9001:2015 manufacturing environment. Each lot is mechanically and electrically tested to ensure performance and reliability for the most demanding electrical applications.

The advantage of the ISO-TP Standoffs relies on their durability, lightweight design, compatibility, and electrical insulation properties. They are an excellent choice for UL and IEC designs.

The Gund Company offers a wide range of ISO-TP Standoffs for your UL or IEC designs requirements. The Gund Company supports finding the ideal standoff before and during your design process. The Gund Company has the expertise and flexibility to have a quick response on delivery actual and new designs to guarantee customer satisfaction.

PROPERTIES

- **Hexagonal Shape**
- **Flammability Grade V0 (UL94)**
- **Cantilever & Tensile Strength Compliance with UL 891**
- **Working Temperatures -40°C to 135°C**



AVAILABLE INSERT MATERIALS

The Gund Company offers a variety of threaded insert material options to suit your application. For more information on these materials or to request a quote for your requirements, contact one of our standoff insulator experts today.

At the Gund Company, we understand that threaded insert material preferences can vary. That's why we offer the flexibility to indicate your preference by adding a "-S" for steel or a "-B" for brass to the end of any standoff insulator part ID number. If no indication is made, the standard insert material is aluminum.

Always Overperforming
Since 1951
www.thegundcompany.com

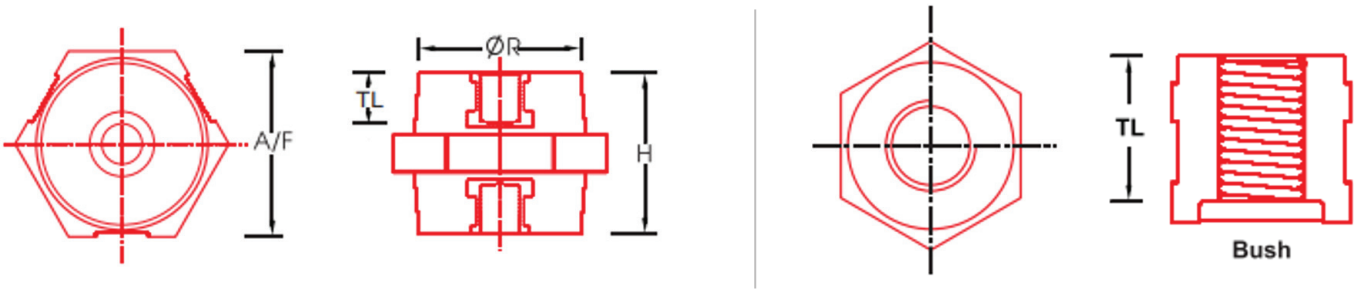
The Gund Company fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Additional thicknesses are available upon request.

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MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

ISO-TP Standoff Insulators (cont.)



PART NO.	H (in)	AF (in)	ØR (in)	TL (in)	Nominal Voltage (AC/DC)	Box Quantity	REF (Erico)
ISOTP-PH 420 (M4)	0.79	0.71	0.59	0.20	1100/1500	2000	548400
ISOTP-PH 620 (M6)	0.79	0.71	0.63	0.20	1100/1500	1600	548400
ISOTP-PH 6(7)20(M6)	0.79	0.71	0.63	0.28	1100/1500	1600	548400
ISOTP-PH 525 (M5)	0.98	0.79	0.63	0.28	1400/1900	1000	548700
ISOTP-PH 625 (M6)	0.98	0.79	0.63	0.28	1400/1900	1000	548430
ISOTP-PH 630 (M6)	1.18	1.18	1.02	0.35	1600/2200	500	548440
ISOTP-PH 830 (M8)	1.18	1.18	1.02	0.35	1600/2200	500	548450
ISOTP-PH 635(M6)	1.38	1.57	1.34	0.47	1900/2600	300	548470
ISOTP-PH 835 (M8)	1.38	1.57	1.34	0.47	1900/2600	300	548480
ISOTP-PH1035 (M10)	1.38	1.57	1.34	0.47	1900/2600	300	548490
ISOTP-PH 640 (M6)	1.57	1.77	1.57	0.47	2200/3000	200	548500
ISOTP-PH 840 (M8)	1.57	1.77	1.57	0.47	2200/3000	200	548510
ISOTP-PH1040 (M10)	1.57	1.77	1.57	0.47	2200/3000	200	548520
ISOTP-PH1240(M12)	1.57	1.77	1.57	0.47	2200/3000	200	548511
ISOTP-PH645L(M6)	1.77	1.61	1.34	0.47	2500/3500	120	548530
ISOTP-PH845L(M8)	1.77	1.61	1.34	0.47	2500/3500	120	548540
ISOTP-PH 845 (M8)	1.77	1.97	1.57	0.47	2500/3500	120	548550
ISOTP-PH1045 (M10)	1.77	1.97	1.57	0.47	2500/3500	120	548560
ISOTP-PH 650 (M6)	1.97	1.97	1.57	0.67	2800/3900	120	548570
ISOTP-PH 850 (M8)	1.97	1.97	1.57	0.67	2800/3900	120	548580
ISOTP-PH1050 (M10)	1.97	1.97	1.57	0.67	2800/3900	120	548590
ISOTP-PH 860 (M8)	2.36	2.13	1.77	0.67	3300/4600	100	548600
ISOTP-PH1060 (M10)	2.36	2.13	1.77	0.67	3300/4600	100	548610
ISOTP-PH1260 (M12)	2.36	2.13	1.77	0.67	3300/4600	100	548610
ISOTP-PH1270 (M12)	2.76	2.56	1.97	0.83	3900/5400	50	
ISOTP-PH1670 (M16)	2.76	2.56	1.97	0.83	3900/5400	50	
ISOTP-PH-1075(M10)	2.95	2.56	1.97	0.83	4200/5800	40	
ISOTP-PH1275 (M12)	2.95	2.56	1.97	0.83	4200/5800	40	
ISOTP-PH1675 (M16)	2.95	2.56	1.97	0.83	4200/5800	40	
ISOTP-PH1280 (M12)	3.15	2.56	1.97	0.98	4500/6300	40	
ISOTP-PH1680 (M16)	3.15	2.56	1.97	0.98	4500/6300	40	
ISOTP-PH12100 (M12)	3.94	2.56	1.97	0.98	5600/7800	36	
ISOTP-PH16100 (M16)	3.94	2.56	1.97	0.98	5600/7800	36	

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THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Custom Compression Molded Components

Reliable Electrical Insulation and Structural Support Solutions

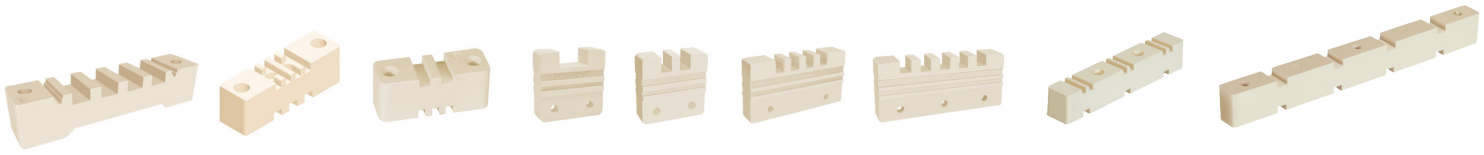






The Gund Company offers engineered compression molded components designed to provide both electrical insulation and structural support in demanding applications. These solutions enable the production of complex geometries while maintaining the strength, thermal stability, and dielectric performance required in modern electrical systems.

Compression molded components can utilize BMC but are typically produced using thermoset composite materials, with **Sheet Molding Compound (SMC)** serving as a primary solution for structural and electrical applications. SMC combines glass fiber reinforcement with a polyester resin system to deliver consistent performance, dimensional stability, and long-term reliability.



SMC MATERIAL PERFORMANCE

SMC materials are designed to provide a balance of mechanical strength, electrical insulation, and thermal stability. The use of continuous and semi-continuous glass reinforcement allows SMC to achieve higher tensile and flexural strength compared to other molding compounds, making it well suited for structural electrical components.

Typical performance benefits include:

- High mechanical strength for load-bearing applications
- Strong dielectric and tracking resistance for electrical insulation
- Continuous operating temperature capability beginning around 130°C
- Consistent thickness and improved surface finish in molded parts

SMC is commonly used in applications such as busbar supports, housings, barriers, and structural insulating components where strength and reliability are critical.

DESIGN AND MANUFACTURING CONSIDERATIONS

Compression molding enables efficient production of complex geometries; however, part design considerations differ from injection molded materials.

TOLERANCES

Compression molded components typically have less precise tolerances compared to injection molded plastics, but are well suited for applications where mechanical strength and electrical performance are prioritized over tight dimensional control.

GEOMETRY AND WALL THICKNESS

SMC materials are best suited for:

- Flat or moderately contoured geometries
- Structural components requiring consistent wall thickness
- Designs where strength and insulation performance are more critical than fine detail features
- For smaller or highly detailed features, alternative molding approaches may be considered depending on design requirements.

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THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Molded Insulation Material Platforms

Comparing SMC, BMC, and Polyamide Solutions

Standoff insulator performance begins with material selection. The Gund Company offers molded solutions in Bulk Molding Compound (BMC), Sheet Molding Compound (SMC), and glass fiber-reinforced Polyamide to satisfy a wide range of electrical, mechanical, and environmental requirements. Each material platform provides unique advantages, allowing designers to balance strength, dielectric performance, dimensional stability, weight, cost, and manufacturing flexibility for the specific demands of the application.

BMC materials provide a proven solution for standard electrical insulation applications, offering excellent dielectric properties, flame resistance, and cost-effective manufacturing. SMC materials deliver enhanced structural performance through higher glass reinforcement levels, making them well suited for larger load-bearing components and custom molded electrical supports.

Glass fiber-reinforced Polyamide combines excellent mechanical strength, impact resistance, and electrical insulation with the flexibility of thermoplastic molding, providing engineers with additional options for both UL and IEC-based designs.

		ASTM/IEC		TYPICAL VALUES		
	PROPERTIES	Test Method	Units	SMC	DMC	Polyamide
PHYSICAL	Specific Gravity	ASTM D792		1.70	1.90	1.39
	Water Absorption	ASTM D570	%	0.20	0.15	1.20
	Glass Content		%	25	15	33
MECHANICAL	Tensile Strength	ASTM D638	Kgf/cm^2	700	400	1,200 - 1,300
	Flexural Strength	ASTM D790	Kgf/cm^2	1,550	900	2,500 - 2,800
	Compressive Strength	ASTM D695	Kgf/cm^2	1,800	1,500	N/A
	IZOD Impact Strength	ASTM D256	(J/m)	600	250	117
ELECTRICAL	Dielectric Strength	ASTM D149	kV/mm	12	10	20
	Comparative Tracking Index (CTI)	BS-5901	Volts	>600	>600	>600
	ARC Resistance	ASTM D495	Seconds	180	180	200
	Flammability Index			V-0	V-0	HB / V-0
	Glow Wire Ignition Test: >3 mm	IEC-60695-2-13	°C	960	960	746 / 930
	Hot Wire Ignition Test (HWI)	ASTM D3874	Seconds	>120	>120	15-Jul
	RTI Strength: 3 mm	UL-746B	°C	130	130	130
	RTI, Elect.: 3 mm	UL-746B	°C	105	105	130
	High Voltage Arc Tracking Rate	UL-746A	mm/min	0 - 10	0 - 10	10 - 25.4
	High Amp Arc Ignition	UL-746A	Mean # of arcs	>120	>120	>120
	Material Group	IEC-60112		1	1	1
	Pollution Degree	IEC-60950		3	3	3
	Insulation Class	JIS C 4003		B	B	B
	Working Temp		°C	-40°C to 135°C	-40°C to 135°C	-40°C to 135°C
GEN. TOLERANCES	6 to 30	Linear Dimension	mm	± 0.3	± 0.3	± 0.2
	30 to 120	Linear Dimension	mm	± 0.8	± 0.8	± 0.3
	120 to 140	Linear Dimension	mm	± 1.5	± 1.5	± 1.2
	400 to 1,000	Linear Dimension	mm	± 2.5	± 2.5	± 2.0

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Simplifying Standoff Substitution

UL 891 Annex G Design Guidance



Standoff insulators are UL recognized as panelboard and switchboard accessories according to the requirements in UL 891 Annex G. Annex G of UL 891 allows switchboard sections and current transformer compartments to achieve a high Short-Circuit Current Rating (SCCR) without having to test each configuration. The advantage for the switchboard manufacturer is that they can have numerous, custom bus bar configurations without having to test each one to achieve up to a 100 kA SCCR. It also allows the manufacturer to use a wide variety of standoff insulators, provided they comply with the brace and support requirements of UL 891 Annex G. The manufacturer may substitute standoff insulators without performing SCCR testing **when the replacement standoff is UL recognized for the applicable UL 891 Annex G brace and support requirements and the required bus bar construction, spacing, attachment, and hardware conditions remain unchanged.** To achieve the SCCRs shown in Table G3.1 below, customers need to follow the bus bar construction requirements in UL 891 Annex G. For the support requirements of the bus bars, customers can use standoff insulators recognized to UL 891 Annex G. Section G4 covers the required performance of the standoff insulators.

TABLE G3.1

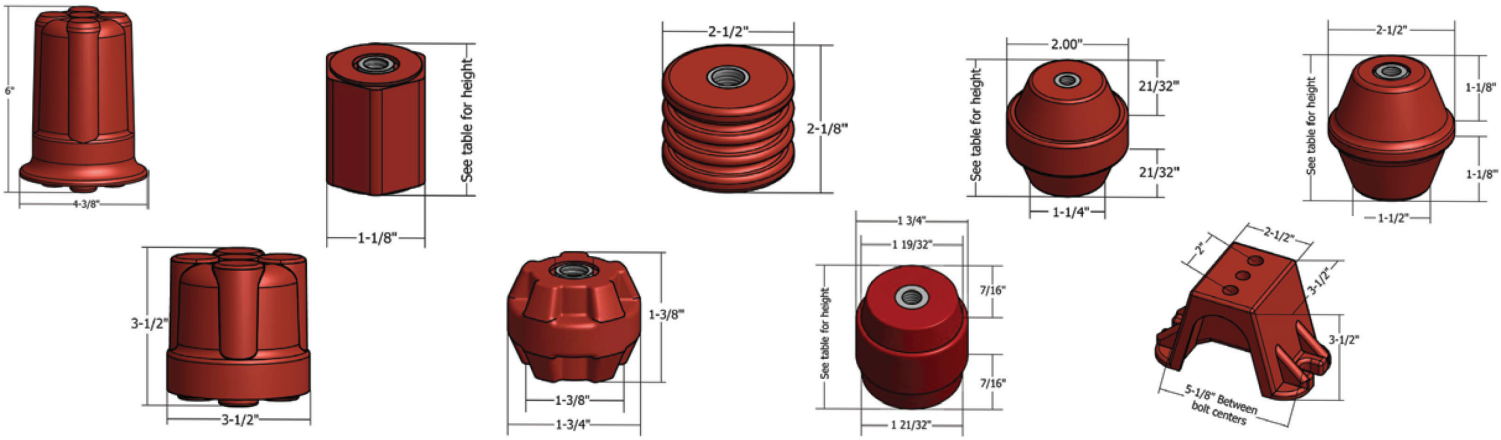
Max. RMS Sym. Short Circuit Current	Min. Ampere Rating	Max. Ampere Rating	Max. Voltage Rating: Single or Three Phase	Min. Bus Bar Width		Max. Bus Bar Width		Bus Bars: EE or FF	Number of Phases	Min. Distance Between Opposite Polarity Bus Bars				Max. Distance Between Supports or Fraction Thereof	
										Closest Point		Center to Center			
AMPS	AMPS	AMPS	VOLTS	IN.	MM	IN.	MM			IN.	MM	IN.	MM	IN.	MM
100,000	800	4,000	480	4	102	7	178	EE	3 1	1 2	25.4 50.8	5 6	127 152	21	533
100,000	800	4,000	480	4	102	7	178	FF	3 1	4 5	102 127	6 7	152 178	13	330
65,000	800	4,000	480	4	102	7	178	EE	3 1	1 2	25.4 50.8	5 6	127 152	21	533
50,000	800	4,000	480	2	51	4	102	EE	3 1	1-1/2 2	38.1 50.8	3-1/2 6	88.9 152	14	356
50,000	800	4,000	480	2	51	4	102	FF	3 1	4 5	102 127	6 7	152 178	21	533
42,000	200	1,500	480	2	51	4	102	EE	1,3	5	127	9	229	21	533

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Simplifying Standoff Substitution (cont.)



The standard is written to protect bus bar systems from mechanical failures during short-circuit events. **For standoffs used as bus bar braces or supports under the UL 891 Annex G high-SCCR construction method,** standoff insulators are required to meet minimum tensile-strength and cantilever-strength requirements. Standoffs used for this purpose need to withstand a minimum tensile force of 1,850 lbs and a minimum cantilever force of 675 lbs.

By establishing minimum mechanical strength characteristics and minimum spacing requirements, the UL 891 standard is written to ensure that bus bars and supports are able to withstand the high mechanical stresses during a short-circuit. Standoff insulators UL recognized to meet the requirements of UL 891 Annex G under UL Category Code QEUY2 have been tested to meet the minimum tensile and cantilever force requirements. Therefore, substitution of standoffs that comply with the applicable brace and support requirements of UL 891 Annex G **may be allowable** without having to perform SCCR testing, provided the required spacings, bus bar construction, attachment conditions, and other applicable Annex G requirements remain the same.

The attachment of the support of bus bars is covered in Annex G Section 3.3. The bolts used to secure the bus bar to a standoff insulator must be 3/8-16 steel or larger and torqued to 20 pound-feet. Standoff insulators that have inserts smaller than 3/8-16 may be used for support of live parts, but the assembly would have to be tested to achieve the high SCCR ratings. Any substitution of those standoffs insulators would likely require a new SCCR test.

The Gund Company offers a wide variety of standoff insulators UL recognized to UL 891 Annex G. The standoff insulators can be used in accordance with the requirements in UL 891 Annex G to achieve high short-circuit current ratings without having to perform tests. For more information on our product offering see our data sheet.

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THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

OUR EXPERTISE IS OUR COMPETITIVE ADVANTAGE

At The Gund Company, we're not just about materials; we're about empowering our clients innovations with a diverse array of solutions, from resilient glass epoxy composites to high-performance silicone sponges. Our consultative approach ensures that we dive deep into their unique needs, collaborating closely with your engineers and buyers to identify the perfect materials that match your projects.

We understand that selecting the right material can be a daunting task, which is why our experienced Application Engineering Teams are here to help navigate these challenges. By focusing on the key material properties, we often uncover valuable opportunities for cost reduction, enhancing the overall success of your project.

Our Material Specialists are dedicated to reviewing customer specifications and providing insightful recommendations that could save you money while still meeting all your requirements. Together, we're not just solving problems; we're innovating for the future.

We believe that asking the right questions is the first step towards delivering tailored solutions. At The Gund Company, continuous improvement is at the core of our ethos. We are committed to optimizing production for material yield and fabrication efficiency, constantly adapting our capabilities based on what our customers need.

Today, we proudly stand as an industry-leading manufacturer and fabricator of engineered material solutions, and we're excited to evolve alongside our employees. Let's embark on this journey together and redefine what's possible for tomorrow!

WE LISTEN, LEARN, RESPOND, AND SERVE.

OUR CURRENT FABRICATION FACILITIES



LOS ANGELES - CA
- 80 employees
- 46,480 square feet



CEDAR LAKE - IN
- 30 employees
- 30,000 square feet



MILWAUKEE - WI
- 50 employees
- 75,000 square feet



ST. LOUIS - MO
- 120 employees
- 62,000 square feet



ALBANY - NY
- 150 employees
- 100,000 square feet



DALLAS - TX
- 30 employees
- 54,000 square feet



TORONTO - CANADA
- 45 employees
- 55,000 square feet



QUERETARO - MEXICO
- 200 employees
- 55,000 square feet



XIAMEN - CHINA
- 70 employees
- 60,000 square feet



HUZHOU - CHINA
- 100 employees
- 52,000 square feet



AUGSBURG - GERMANY
- 180 employees
- 320,000 square feet



BRADFORD - UK
- 39 employees
- 32,000 square feet

1,200+
TEAM MEMBERS

17
MANUFACTURING LOCATIONS*

8
COUNTRIES WITH OFFICES

*12 of the 17 shown above

GLOBALLY-KNOWN AND GROWING

Established in 1951 | Fourth-generation family business | **One of the largest insulation component fabricators in North America**
Unique supplier of thermoset composites specializing in rigid and flexible laminates | Vertical integration on key materials
Partners with many major Electrical/Electronic OEMs

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

MARKETS


Switchgear


Electronics


Power Generators


Motor Applications


Transformers


Metals Processing


Electric Vehicles


Military/Aerospace


Oil & Gas


Medical


Space

OUR EXPERTISE IS YOUR COMPETITIVE ADVANTAGE

We manufacture and fabricate a complete line of components for market-specific applications (left column). As TGC better understands these markets – we can expand into other applications for our products.

As an employer, we are one family, acting in accordance with our Core Values: respect, trust, growth, passion, connection, teamwork, integrity, and performance. Collectively, we recognize and serve others so that lives are transformed!

Material Families:

- Thermoset Rigid Laminates & Composites
- Flexible Laminates, Papers, Films & Felts
- Thermoplastic Materials
- Elastomeric Materials

Engineering Capabilities:

- Custom Material Development
- Resin Formulation
- Laboratory Testing
- Comparative Materials Evaluation

Manufacturing Capabilities:

- Compression Molding
- Autoclave & Light RTM Molding
- Pultrusion / Extrusion of Rods & Shapes
- Filament, Convolute & Wet Winding Tubes
- Additive & Injection Molding
- Infusion & B-Stage Composites Lay-Up
- Hand Lay-Up & Spray-Up Molding

Conversion Capabilities:

- Die, Laser & Knife Cutting
- Waterjet Cutting
- Rotary Die Cutting
- Slitting
- Thermoforming

Fabrication Capabilities:

- 5-Axis Machining
- CNC Milling
- Routing
- Turning & Lathe Cutting
- Punching
- Bending

THE GUND COMPANY GLOBAL FOOTPRINT

