

STANDOFF INSULATORS

All Mar-Bal Standoff Insulators are molded from a flame retardant and track resistant glass reinforced thermoset polyester molding compound recognized for current carrying devices under UL Material Recognition Number E 80533 (N). They combine high mechanical strength with high arc resistance and dielectric properties at elevated temperatures and humidity. These shatter resistant insulators meet the most exacting standards for a variety of applications.



- Panel and Switchboard Insulators
- Round 600-Volt
- Round 4000 Series Insulators
- Center Post 4000 Series Insulators
- Center Post 5000 Series Insulators
- Aparatus
- 13.5 Insulators
- 5 KV Insulators
- 15 KV Insulators

PANEL AND SWITCHBOARD INSULATORS

UL E84767 

	Physical and Electrical Properties	
	Tensile Strength (lbs.)	1200
	Cantilever Strength (lbs)	600
	Compression Strength (lbs.)	8000
	Thread Stripping Torque (ft. lbs.)	10
	Dielectric Strength (volts S.T.)	10000 Min.
	Arc Resistance (sec. ASTM D495)	180 +
	Flame Retardance	UL E84767
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Height Tolerance(in.)	±.015

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size*	Type
1100-A1	600	500	UL E84767	Hex	1-1/8	1	1/4-20 x 5/16	Aluminum
1125-A1	600	500	UL E84767	Hex	1-1/8	1-1/4	1/4-20 x 5/16	Aluminum
1125-A1X	600	500	UL E84767	Hex	1-1/8	1-1/4	1/4-20 x 5/16	Aluminum
R1100-A1	600	500	UL E84767	Round	1	1	1/4-20 x 5/16	Aluminum
R1125-A1	600	500	UL E84767	Round	1	1-1/4	1/4-20 x 5/16	Aluminum

+ All Insulators Listed Can Also Be Molded Using MAR-BAL High Track Resistant-Supertrack MB4000 Compound

+ Metric Insulators available upon request

+ 25 KV Insulator available upon request

ROUND 600 VOLT INSULATORS



	Physical and Electrical Properties	
	Tensile Strength (lbs.)	2500-2700
	Cantilever Strength (in. lbs)	2500-3750
	Compression Strength (lbs.)	17000
	Thread Stripping Torque (ft. lbs.)	30
	Dielectric Strength (volts S.T.)	15000
	Arc Resistance (sec. ASTM D495)	180 +
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Height Tolerance(in.)	±.015
	Creep Distance (in.)	1/4"+Ht.
	Flame Retardance	UL E84767

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size	Type
2138-A4	600	300	UL E84767	Hex	1-3/4	1-3/8	3/8-16 x 3/8	Aluminum
R2137-A4	600	225	UL E84767	Round	1-3/4	1-3/8	3/8-16 x 3/8	Aluminum
R2137-S4	600	225	UL E84767	Round	1-3/4	1-3/8	3/8-16 x 3/8	Steel
R2137-A3	600	225	UL E84767	Round	1-3/4	1-3/8	5/16-18 x 3/8	Aluminum
R2137-S3	600	225	UL E84767	Round	1-3/4	1-3/8	5/16-18 x 3/8	Steel

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ROUND 4000 SERIES INSULATORS

UL E84767 

	Physical and Electrical Properties	
	Tensile Strength (lbs.)	2500-2700
	Cantilever Strength (in. lbs)	2500-3750
	Compression Strength (lbs.)	17000
	Thread Stripping Torque (ft. lbs.)	30
	Dielectric Strength (volts S.T.)	15000
	Arc Resistance (sec. ASTM D495)	180 +
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Height Tolerance(in.)	±.015
	Creep Distance (in.)	1/4"+Ht.
	Flame Retardance	UL E84767

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size	Type
R4150-A3	1500	200	UL E84767	Round	1-3/4	1-1/2	5/16-18 x 3/8	Aluminum
R4150-S3	1500	200	UL E84767	Round	1-3/4	1-1/2	5/16-18 x 3/8	Steel
R4150-A4	1500	200	UL E84767	Round	1-3/4	1-1/2	3/8-16 x 3/8	Aluminum
R4150-S4	1500	200	UL E84767	Round	1-3/4	1-1/2	3/8-16 x 3/8	Steel
R4162-A4	1600	175	UL E84767	Round	1-3/4		3/8-16 x 3/8	Aluminum
R4175-A3	2000	175	UL E84767	Round	1-3/4	1-3/4	5/16-18 x 3/8	Aluminum
R4175-A4	2000	175	UL E84767	Round	1-3/4	1-3/4	3/8-16 x 3/8	Aluminum
R4175-S4	2000	175	UL E84767	Round	1-3/4	1-3/4	3/8-16 x 3/8	Steel
R4187-A5	2000	175	UL E84767	Round	1-3/4	1-7/8	3/8-16 x 9/16	Aluminum
R4200-A3	2500	150	UL E84767	Round	1-3/4	2	5/16-18 x 3/8	Aluminum
R4200-A4	2500	150	UL E84767	Round	1-3/4	2	3/8-16 x 3/8	Aluminum
R4200-S4	2500	150	UL E84767	Round	1-3/4	2	3/8-16 x 3/8	Steel

R4200-A5	2500	150	UL E84767	Round	1-3/4	2	3/8-16 x 9/16	Aluminum
R4200-S5	2500	150	UL E84767	Round	1-3/4	2	3/8-16 x 9/16	Steel
R4225-A5	2700	150	UL E84767	Round	1-3/4	2-1/4	3/8-16 x 9/16	Steel

- + All Insulators Listed Can Also Be Molded Using MAR-BAL High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

OCTAGON CENTER POST 4000 SERIES INSULATORS

UL E84767 

	Physical and Electrical Properties	
	Tensile Strength (lbs.)	3000-4500
	Cantilever Strength (in. lbs)	2400-5000
	Compression Strength (lbs.)	15000-18000
	Thread Stripping Torque (ft. lbs.)	42-50
	Dielectric Strength (volts S.T.)	15000-16000
	Arc Resistance (sec. ASTM D495)	180 +
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Height Tolerance(in.)	±.015
	Creep Distance (in.)	1/4"+Ht.
	Flame Retardance	UL E84767

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size	Type
4150-S2	1500	169	UL E84767	Octagon	2	1-1/2	1/4-20 x 1/2	Steel
4150-A3	1500	169	UL E84767	Octagon	2	1-1/2	5/16-18 x 3/8	Aluminum

4150-S3	1500	169	UL E84767	Octagon	2	1-1/2	5/16-18 x 3/8	Steel
4150-A4	1500	169	UL E84767	Octagon	2	1-1/2	3/8-16 x 3/8	Aluminum
4150-S4	1500	169	UL E84767	Octagon	2	1-1/2	3/8-16 x 3/8	Steel
4175-A3	2000	144	UL E84767	Octagon	2	1-3/4	5/16-18 x 3/8	Aluminum
4175-A4	2000	144	UL E84767	Octagon	2	1-3/4	3/8-16 x 3/8	Aluminum
4175-S4	2000	144	UL E84767	Octagon	2	1-3/4	3/8-16 x 3/8	Steel
4175-S5	2000	144	UL E84767	Octagon	2	1-3/4	3/8-16 x 9/16	Steel
4175-A5	2000	144	UL E84767	Octagon	2	1-3/4	3/8-16 x 9/16	Aluminum
4200-A3	2500	133	UL E84767	Octagon	2	2	5/16-18 x 3/8	Aluminum
4200-A5	2500	133	UL E84767	Octagon	2	2	3/8-16 x 9/16	Aluminum
4200-S5	2500	133	UL E84767	Octagon	2	2	3/8-16 x 9/16	Steel
4200-A6	2500	133	UL E84767	Octagon	2	2	1/2-13 x 5/8	Aluminum
4200-S6	2500	133	UL E84767	Octagon	2	2	1/2-13 x 5/8	Steel
4225-A5	2700	108	UL E84767	Octagon	2	2-1/4	3/8-16 x 9/16	Aluminum
4225-S5	2700	108	UL E84767	Octagon	2	2-1/4	3/8-16 x 9/16	Steel
4225-A6	2700	108	UL E84767	Octagon	2	2-1/4	1/2-13 x 5/8	Aluminum
4225-S6 Red	2700	108	UL E84767	Octagon	2	2-1/4	1/2-13 x 5/8	Steel
4225-S6 Gray	2700	108	UL E84767	Octagon	2	2-1/4	1/2-13 x 5/8	Steel

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OCTAGON CENTER POST 5000 SERIES INSULATORS

UL E84767 

	Physical and Electrical Properties	
	Tensile Strength (lbs.)	5000-5700
	Cantilever Strength (in. lbs)	5000-5600
	Compression Strength (lbs.)	23000-27000
	Thread Stripping Torque (ft. lbs.)	42-50
	Dielectric Strength (volts S.T.)	19000-21000
	Arc Resistance (sec. ASTM D495)	180 +
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Height Tolerance(in.)	±.015
	Creep Distance (in.)	5/16" + Ht.
	Flame Retardance	UL E84767

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size	Type
5250-A5	3200	75	UL E84767	Octagon	2-1/2	2-1/2	3/8-16 x 9/16	Aluminum
5250-S5	3200	75	UL E84767	Octagon	2-1/2	2-1/2	3/8-16 x 9/16	Steel
5250-A6	3200	75	UL E84767	Octagon	2-1/2	2-1/2	1/2-13 x 5/8	Aluminum
5250-S6	3200	75	UL E84767	Octagon	2-1/2	2-1/2	1/2-13 x 5/8	Steel
5263-A6	3400	66	UL E84767	Octagon	2-1/2	2-5/8	1/2-13 x 5/8	Aluminum
5263-S6	3400	66	UL E84767	Octagon	2-1/2	2-5/8	1/2-13 x 5/8	Steel
5263-A8	3400	66	UL E84767	Octagon	2-1/2	2-5/8	5/8-11 x 3/4	Aluminum
5263-S8	3400	66	UL E84767	Octagon	2-1/2	2-5/8	5/8-11 x 3/4	Steel
5275-A5	3600	66	UL E84767	Octagon	2-1/2	2-3/4	3/8-16 x 9/16	Aluminum
5275-S5	3600	66	UL E84767	Octagon	2-1/2	2-3/4	3/8-16 x 9/16	Steel
5275-A6	3600	66	UL E84767	Octagon	2-1/2	2-3/4	1/2-13 x 5/8	Aluminum
5275-A8	3600	66	UL E84767	Octagon	2-1/2	2-3/4	5/8-11 x 3/4	Aluminum
5275-S8	3600	66	UL E84767	Octagon	2-1/2	2-3/4	5/8-11 x 3/4	Steel
5275-S10	3600	66	UL E84767	Octagon	2-1/2	2-3/4	3/8-16 x 5/8	Steel
5300-A5	4100	50	UL E84767	Octagon	2-1/2	3	3/8-16 x 9/16	Aluminum
5300-S5	4100	50	UL E84767	Octagon	2-1/2	3	3/8-16 x 9/16	Steel
5300-A6	4100	50	UL E84767	Octagon	2-1/2	3	1/2-13 x 5/8	Aluminum
5300-S6	4100	50	UL E84767	Octagon	2-1/2	3	1/2-13 x 5/8	Steel

5300-S8	4100	50	UL E84767	Octagon	2-1/2	3	5/8-11 x 3/4	Steel
5325-A5	4500	50	UL E84767	Octagon	2-1/2	3-1/4	3/8-16 x 9/16	Aluminum
5325-S5	4500	50	UL E84767	Octagon	2-1/2	3-1/4	3/8-16 x 9/16	Steel
5325-S10	4500	50	UL E84767	Octagon	2-1/2	3-1/4	3/8-16 x 5/8	Steel
5350-A5	5000	50	UL E84767	Octagon	2-1/2	3-1/2	3/8-16 x 9/16	Aluminum
5350-S5	5000	50	UL E84767	Octagon	2-1/2	3-1/2	3/8-16 x 9/16	Steel
5350-A6	5000	50	UL E84767	Octagon	2-1/2	3-1/2	1/2-13 x 5/8	Aluminum
5350-S10	5000	50	UL E84767	Octagon	2-1/2	3-1/2	1/2-13 x 5/8	Steel
5375-A5	5000	50	UL E84767	Octagon	2-1/2	3-3/4	3/8-16 x 9/16	Aluminum
5375-S8	5000	50	UL E84767	Octagon	2-1/2	3-3/4	5/8-11 x 3/4	Steel
5375-S10	5000	50	UL E84767	Octagon	2-1/2	3-3/4	3/8-16 x 5/8	Steel

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- + 25 KV Insulator available upon request

APPARATUS STANDOFF INSULATORS

UL E84767 

	Physical and Electrical Properties	
	Tensile Strength (lbs.)	6000
	Cantilever Strength (in. lbs)	5000
	Compression Strength (lbs.)	50000
	Thread Stripping Torque (ft. lbs.)	30
	Dielectric Strength (volts S.T.)	15000
	Arc Resistance (sec. ASTM D495)	180 +
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Creep Distance (in.)	3-1/4
	Flame Retardance	UL E84767

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size	Type
3213-A5	2500	75	UL E84767	Round	2-1/2	2-1/8	3/8-16 x 9/16	Aluminum
3213-S5	2500	75	UL E84767	Round	2-1/2	2-1/8	3/8-16 x 9/16	Steel
3213-A6	2500	75	UL E84767	Round	2-1/2	2-1/8	1/2-13 x 5/8	Aluminum

3213-S6	2500	75	UL E84767	Round	2-1/2	2-1/8	1/2-13 x 5/8	Steel
3213-S8	2500	75	UL E84767	Round	2-1/2	2-1/8	5/8-11 x 3/4	Steel

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13.5 KV INSULATORS

UL E84767

	Physical and Electrical Properties	
	Tensile Strength (lbs.)	3000
	Cantilever Strength (in. lbs)	3200
	Compression Strength (lbs.)	30000
	Thread Stripping Torque (ft. lbs.)	55
	Dielectric Strength (volts S.T.)	15000
	Arc Resistance (sec. ASTM D495)	180 +
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Height Tolerance(in.)	±.015
	Creep Distance (in.)	10
	Flame Retardance	UL E84767

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size	Type
6500-S10	7500	20	UL E84767	Round	2-3/4	5	3/8-16 x 5/8	Steel
6500-S6	7500	20	UL E84767	Round	2-3/4	5	1/2-13 x 5/8	Steel
6375-S6	13500	20	UL E84767	Round	2-3/4	6	1/2-13 x 5/8	Steel
6375-S10	13500	20	UL E84767	Round	2-3/4	6	3/8-16 x 5/8	Steel
7000-S10	13500	20	UL E84767	Round	2-3/4	7	3/8-16 x 5/8	Steel

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5 KV INSULATORS

UL E84767 

	Physical and Electrical Properties	
	Tensile Strength (lbs.)	4500
	Cantilever Strength (in. lbs)	2500
	Compression Strength (lbs.)	22000
	Thread Stripping Torque (ft. lbs.)	30
	Arc Resistance (sec. ASTM D495)	180 +
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Flame Retardance	UL E84767
	3/8-16x.8 Deep Steel Inserts	
	4-On Top	
	2,4, or 5-On Bottom	

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size	Type
6350-S10 4x2 Red	5000	18	UL E84767	Round	3-3/4	3-1/2	3/8-16 x 5/8	Steel
6350-S10 4x2 Gray	5000	18	UL E84767	Round	3-3/4	3-1/2	3/8-16 x 5/8	Steel
6350-S10 4x4 Gray	5000	18	UL E84767	Round	3-3/4	3-1/2	3/8-16 x 5/8	Steel
6350-S10 4x4 Red	5000	18	UL E84767	Round	3-3/4	3-1/2	3/8-16 x 5/8	Steel
6350-S6/S10 4x4x1 Red	5000	18	UL E84767	Round	3-3/4	3-1/2	Call For Information	Steel
6350-S6/S10 4x4x1 Gray	5000	18	UL E84767	Round	3-3/4	3-1/2	Call For Information	Steel

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15 KV INSULATORS

UL E84767 

	Physical and Electrical Properties	
	Tensile Strength (lbs.)	4800
	Cantilever Strength (in. lbs)	1500
	Compression Strength (lbs.)	25000
	Thread Stripping Torque (ft. lbs.)	30
	Arc Resistance (sec. ASTM D495)	180 +
	Water Absorption (% in 24 hrs. @ 23°C)	0.15
	Flame Retardance	UL E84767
	3/8-16x.8 Deep Steel Inserts	
	4-On Top	
	2,4, or 5-On Bottom	

Part Number	Suggest Indoor Voltage	Carton Quantity	UL File Number	Shape	Diameter	Height	Insert Size*	Type
6600-S10 4x2 Red	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10 4x2 Gray	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10 4x4 Red	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10 4x4 Gray	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10 4x4 R20 Red	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10/81 4x4 Red	15000	9	UL E84767	Round	3-3/4	6	Call For Information	Steel
6600-S10/81 4x4x1 Red	15000	9	UL E84767	Round	3-3/4	6	Call For Information	Steel

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