

# General Specifications

## Electrical Capacity (Resistive Load)

- Power Level (silver):** 6A @ 125V AC & 3A @ 250V AC  
4A @ 30V DC for On-None-On & On-None-Off; 3A @ 30V DC for all other circuits
- Logic Level (gold):** 0.4VA maximum @ 28V AC/DC maximum (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
- Logic/Power Level (gold over silver):** Combines silver & gold ratings  
Note: Find additional explanation of dual rating & operating range in Supplement section.

## Other Ratings

- Contact Resistance:** 10 milliohms maximum for silver; 20 milliohms maximum for gold
- Insulation Resistance:** 1,000 megohms minimum @ 500V DC
- Dielectric Strength:** 1,000V AC minimum between contacts for 1 minute minimum;  
1,500V AC minimum between contacts and case for 1 minute minimum
- Mechanical Life:** 100,000 operations minimum; 50,000 operations minimum for flat, locking & splashproof devices
- Electrical Life:** 25,000 operations minimum for silver; 50,000 operations minimum for gold;  
50,000 operations minimum for silver at 3A @ 125V AC
- Angle of Throw:** 25°

## Materials & Finishes

- Toggle:** Brass with chrome plating
- Bushing:** Brass with nickel plating
- Case:** Diallyl phthalate resin (UL94V-0)
- Movable Contactor:** Phosphor bronze with silver or gold plating
- Movable Contacts:** Silver alloy (code W); copper with gold plating (code G); or silver alloy with gold plating (code A)
- Stationary Contacts:** Silver with silver plating (code W); copper or brass with gold plating (code G);  
or silver with gold plating (code A)
- Terminals:** Copper or brass with silver plating; or copper or brass with gold plating
- Frame:** Stainless steel
- Support Bracket:** Brass with tin plating

## Environmental Data

- Operating Temp Range:** -30°C through +85°C (-22°F through +185°F)
- Humidity:** 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
- Vibration:** 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
- Shock:** 50G (490m/s<sup>2</sup>) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
- Sealing:** Splashproof bushing options B3, D3, D8, L3, & L8, which have o-rings inside & outside the bushing, meet IP67 of IEC60529 Standards.

## Installation

- Mounting Torque:** 3.0Nm (26.55 lb•in) double nut for large bushing;  
1.5Nm (13 lb•in) double nut & 0.7Nm (6 lb•in) single nut for all other bushings

## Processing

- Soldering:** Wave Soldering (PC version) for Gold: See Profile A in Supplement section.  
Manual Soldering for Gold: See Profile A in Supplement section.  
Wave Soldering (PC version) for Silver: See Profile B in Supplement section.  
Manual Soldering for Silver: See Profile B in Supplement section.  
Note: Lever must be in OFF (center) position while soldering.
- Cleaning:** These devices are not process sealed. Hand clean locally using alcohol based solution.

## Standards & Certifications

- Flammability Standards:** UL94V-0 for case
- UL:** **File No. E44145 - Recognized only when ordered with marking on switch.**  
Add "/U" or "/CUL" before dash in part number to order UL recognized switch.  
All models recognized at 6A @ 125V AC, 3A @ 250V AC or 0.4VA maximum @ 28V DC maximum.
- CSA:** **File No. 023535\_0\_000 - Certified only when ordered with marking on switch.**  
Add "/C" before dash in part number to order CSA certified switch.  
All models certified at 6A @ 125V AC or 3A @ 250V AC or 0.4VA maximum @ 28V maximum.

# Distinctive Characteristics

Antirotation design, standard on noncylindrical levers, mates toggle and bushing; bottom of toggle has two flattened sides which fit into a complementary opening inside bushing.

Antijamming design protects contacts from damage due to excessive downward force on actuator.

High torque bushing construction prevents rotation or separation from frame during installation.

High insulating barriers increase isolation of circuits in multipole devices and provide added protection to contact points.

Molded diallyl phthalate case has a UL flammability rating of 94V-0.

Epoxy sealed terminals prevent entry of solder flux and other contaminants.

Prominent external insulating barriers increase insulation resistance and dielectric strength.

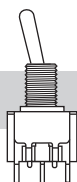
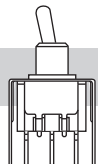
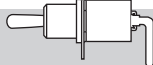
Interlocked actuator block, lever, and interior guide prevent switch failure due to biased lever movement.

Clinching of frame to case well above base and terminals provides 1,500V dielectric strength.



Actual Size



|   |                  |          |
|---|------------------|----------|
|  | Bushing Mount    | Page A48 |
|  | Bracket PC Mount | Page A60 |
|  | Angle PC Mount   | Page A66 |

A Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

**M20**

**1**

**3**

**S**

**S1**

| Poles |                      |
|-------|----------------------|
| 1     | SPST<br>SPDT         |
| 2     | DPST<br>DPDT<br>SP3T |
| 3     | 3PDT                 |
| 4     | 4PDT<br>DP3T         |

| Small Toggles |                                  |
|---------------|----------------------------------|
| <b>S</b>      | .413" (10.5mm) Bat               |
| <b>S2</b>     | .200" (5.08mm) Bat               |
| <b>S3</b>     | .256" (6.5mm) Bat                |
| <b>E</b>      | .450" (11.4mm) Flatted           |
| <b>* E2</b>   | .256" (6.5mm) Flatted            |
| <b>E4</b>     | .840" (21.3mm) Flatted           |
| <b>* Q</b>    | .550" (14.0mm) Cone              |
| <b>* Q2</b>   | .640" (16.26mm) Cone             |
| <b>* Q4</b>   | .840" (21.3mm) Cone              |
| <b>* C</b>    | .571" (14.5mm) Color Tipped Cone |
| <b>D</b>      | .840" (21.3mm) Color Capped Cone |

Specify cap color for toggles C & D at the end of the part number.  
\* Available on 1- and 2-pole only.

| Small Bushings |  |
|----------------|--|
| <b>S1</b>      | .350" (8.9mm) Threaded with Keyway   |
| <b>S4</b>      | 6mm .350" (8.9mm) Threaded with Keyway   |
| <b>S2</b>      | .350" (8.9mm) Smooth with Keyway   |
| <b>A1</b>      | .280" (7.1mm) Threaded with Keyway   |
| <b>A2</b>      | .280" (7.1mm) Smooth with Keyway   |
| <b>D1</b>      | .350" (8.9mm) Threaded with D Flat   |
| <b>D4</b>      | 6mm .350" (8.9mm) Threaded with D Flat   |
| <b>D3</b>      | .350" (8.9mm) Threaded Splashproof with D Flat (combines only with S, S2 & S3)     |
| <b>D8</b>      | 6mm .350" (8.9mm) Threaded Splashproof with D Flat (combines only with S, S2 & S3) |

| Circuits   |      |      |      |
|------------|------|------|------|
| <b>* 1</b> | ON   | NONE | OFF  |
| <b>2</b>   | ON   | NONE | ON   |
| <b>3</b>   | ON   | OFF  | ON   |
| <b>5</b>   | ON   | NONE | (ON) |
| <b>8</b>   | (ON) | OFF  | (ON) |
| <b>9</b>   | ON   | OFF  | (ON) |
| <b>**4</b> | ON   | ON   | ON   |
| <b>**6</b> | (ON) | ON   | (ON) |
| <b>**7</b> | ON   | ON   | (ON) |

( ) = Momentary

\* ON-NONE-OFF circuit available in 1- and 2-pole only.

\*\* 3-ON circuits

| Large Toggles |                              |
|---------------|------------------------------|
| <b>B</b>      | .453" (11.5mm) Large Bat     |
| <b>B2</b>     | .689" (17.5mm) Large Bat     |
| <b>R</b>      | .610" (15.5mm) Large Flatted |

| Large Bushings |   |
|----------------|---|
| <b>B1</b>      | Large .472" (12mm) Threaded with Keyway             |
| <b>B3</b>      | Large .472" (12mm) Threaded Splashproof with D Flat |

| Locking Lever |                                  |
|---------------|----------------------------------|
| <b>L</b>      | .201" (5.1mm) Dia. Locking Lever |

| Bushings For Locking Levers |   |
|-----------------------------|---|
| <b>L1</b>                   | .291" (7.4mm) Threaded with Keyway for Lever Lock                 |
| <b>L4</b>                   | 6mm .291" (7.4mm) Threaded with Keyway for Lever Lock             |
| <b>L2</b>                   | Smooth with Keyway for Lever Lock                                 |
| <b>L3</b>                   | .295" (7.5mm) Threaded Splashproof with D Flat for Lever Lock     |
| <b>L8</b>                   | 6mm .295" (7.5mm) Threaded Splashproof with D Flat for Lever Lock |

#### IMPORTANT:



Switches are supplied without UL, cULus & CSA marking unless specified.  
**UL, cULus & CSA recognized only when ordered with marking on the switch.**  
Specific models, ratings, & ordering instructions are noted on General Specifications page.

## ORDERING EXAMPLE

|  |  |                              |                                       |
|--|--|------------------------------|---------------------------------------|
| <b>W</b>                               | <b>01</b>  | <b>—</b>                     |                                       |
| <b>Contact Materials &amp; Ratings</b> |  | <b>Optional Caps</b>         |                                       |
| <b>W</b>                               | Silver; Rated<br>6A @ 125V AC & 3A @ 250V AC                           | <b>For Small Bat Toggles</b> |                                       |
| <b>G</b>                               | Gold; Rated<br>0.4VA max @ 28V AC/DC max                               | <b>B</b>                     | For S Bat Toggle                      |
| <b>A</b>                               | Gold over Silver; Rated<br>6A @ 125V AC & 0.4VA max @<br>28V AC/DC max | <b>C</b>                     | Conical Cap for S Bat Toggle          |
|  |  | <b>For Large Bat Toggles</b> |                                       |
|  |  | <b>R</b>                     | For B Toggle                          |
|  |  | <b>V</b>                     | For B2 Toggle                         |
| <b>Terminals</b>                       |  | <b>Cap for Locking Lever</b> |                                       |
| <b>01</b>                              | Solder Lug*  | <b>No Code</b>               | Nickel Plated Supplied<br>with Switch |
| <b>02</b>                              | Quick Connect  | <b>A</b>                     | Black                                 |
| <b>03</b>                              | .250" (6.35mm) Straight PC   | <b>C</b>                     | Red                                   |
| <b>05</b>                              | .425" (10.8mm) Wirewrap  | <b>G</b>                     | Blue                                  |
| <b>06</b>                              | .750" (19.05mm) Wirewrap   | <b>Cap Colors</b>            |                                       |
| <b>07</b>                              | .964" (24.5mm) Wirewrap  | <b>A</b>                     | Black                                 |
| <b>08</b>                              | 1.062" (27.0mm) Wirewrap   | <b>B</b>                     | White                                 |
|  |  | <b>C</b>                     | Red                                   |
|  |  | <b>E</b>                     | Yellow                                |
|  |  | <b>F</b>                     | Green                                 |
|  |  | <b>G</b>                     | Blue                                  |
|  |  | <b>H</b>                     | Gray (for K1<br>& K2 paddles)         |









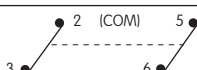



\* Wire harness & cable assemblies offered only in Americas

### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

**M2013SS1W01**

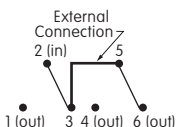
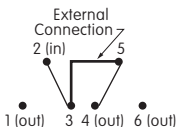
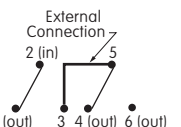
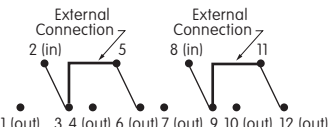
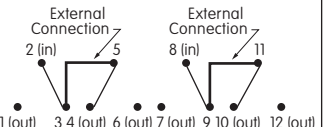
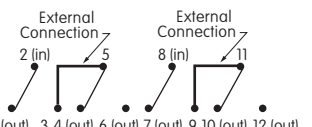


## POLES & CIRCUITS

| Pole | Model                                     | Toggle Position<br>( ) = Momentary  |   |   | Connected Terminals   |   |   | Throw & Schematics  |
|------|---|---|---|---|---|---|---|---|
|      |   | Down<br> | Center<br> | Up<br> | Down<br> | Center<br> | Up<br> |   |
| SP   | M2011                                     | ON  | NONE  | OFF   | 2-3   | OPEN  | OPEN  | SPST<br>   |
| SP   | M2012<br>M2013<br>M2015<br>M2018<br>M2019 | ON<br>ON<br>ON<br>(ON)<br>ON  | NONE<br>OFF<br>NONE<br>OFF<br>OFF   | ON<br>ON<br>(ON)<br>(ON)<br>(ON)  | 2-3   | OPEN  | 2-1   | SPDT<br>   |
| DP   | M2021                                     | ON  | NONE  | OFF   | 2-3 5-6   | OPEN  | OPEN  | DPST<br>   |
| DP   | M2022<br>M2023<br>M2025<br>M2028<br>M2029 | ON<br>ON<br>ON<br>(ON)<br>ON  | NONE<br>OFF<br>NONE<br>OFF<br>OFF   | ON<br>ON<br>(ON)<br>(ON)<br>(ON)  | 2-3 5-6   | OPEN  | 2-1 5-4   | DPDT<br>   |
| 3P   | M2032<br>M2033<br>M2035<br>M2038<br>M2039 | ON<br>ON<br>ON<br>(ON)<br>ON  | NONE<br>OFF<br>NONE<br>OFF<br>OFF   | ON<br>ON<br>(ON)<br>(ON)<br>(ON)  | 2-3 5-6<br>8-9  | OPEN  | 2-1 5-4<br>8-7  | 3PDT<br>   |
| 4P   | M2042<br>M2043<br>M2045<br>M2048<br>M2049 | ON<br>ON<br>ON<br>(ON)<br>ON  | NONE<br>OFF<br>NONE<br>OFF<br>OFF   | ON<br>ON<br>(ON)<br>(ON)<br>(ON)  | 2-3 5-6<br>8-9 11-12  | OPEN  | 2-1 5-4<br>8-7 11-10  | 4PDT<br> |

### For 3 Throw (3-On)

#### Connected Terminals & Schematic

| Pole | Model                   | Down             | Center         | Up                 | Down  | Center   | Up  |
|------|-------------------------|------------------|----------------|--------------------|---|--|---|
| SP   | M2024<br>M2026<br>M2027 | ON<br>(ON)<br>ON | ON<br>ON<br>ON | ON<br>(ON)<br>(ON) |  |  |  |
| DP   | M2044<br>M2046<br>M2047 | ON<br>(ON)<br>ON | ON<br>ON<br>ON | ON<br>(ON)<br>(ON) |  |  |  |

The SP3T model utilizes a double pole base.

External connection must be made during field installation.



The DP3T model utilizes a four pole base.

External connection must be made during field installation.



## SMALL TOGGLES

**S** .413" (10.5mm)  
Bat

**S2** .200" (5.08mm)  
Bat

**S3** .256" (6.5mm)  
Bat

**Important:**

Toggle length changes based on bushing selected. All illustrations are shown with .350" long bushing. When using a .280" long bushing, toggle length increases .070".



**Standard Material & Finish:** Brass with Bright Chrome  
Contact factory for optional finishes.

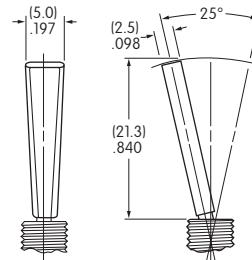
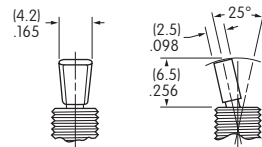
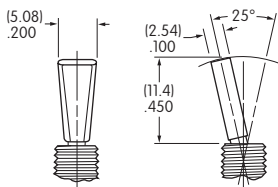
**E** .450" (11.4mm)  
Flatted

**E2** .256" (6.5mm)  
Flatted

**E4** .840" (21.3mm)  
Flatted

**C** .571" (14.5mm)  
Color Tipped Cone  
Supplied with Cap AT445

Material: Polycarbonate



Only Available in 1- & 2-Pole

Only Available in 1- & 2-Pole

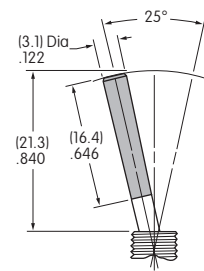
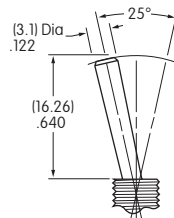
**Q** .550" (14.0mm)  
Cone

**Q2** .640" (16.26mm)  
Cone

**Q4** .840" (21.3mm)  
Cone

**D** .840" (21.3mm)  
Color Capped Cone  
Supplied with Cap AT460

Material: Polyethylene



Only Available in 1- & 2-Pole

Only Available in 1- & 2-Pole

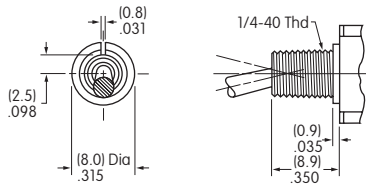
Only Available in 1- & 2-Pole

Cap Colors Available:

- A** Black
- B** White
- C** Red
- E** Yellow
- F** Green
- G** Blue
- H** Gray (For K1 & K2 only)

## SMALL BUSHINGS

**S1** 1/4-40 .350" (8.9mm)  
Threaded with Keyway



Maximum Panel Thickness with Standard Hardware: .102" (2.6mm)

**S4** 6mm/.350" (8.9mm)  
Threaded with Keyway



Maximum Panel Thickness with Standard Hardware: .102" (2.6mm)

**S2** .350" (8.9mm)  
Smooth with Keyway



**A1** 1/4-40 .280" (7.1mm)  
Threaded with Keyway



When using this bushing, toggle length is increased by .070". Maximum Panel Thickness with Standard Hardware: .031" (0.8mm)

**A2** .280" (7.1mm)  
Smooth with Keyway



When using this bushing, toggle length is increased by .070".

**D1** 1/4-40 .350" (8.9mm)  
Threaded with D Flat



Maximum Panel Thickness with Standard Hardware: .102" (2.6mm)

**D4** 6mm/.350" (8.9mm)  
Threaded with D Flat



Maximum Panel Thickness with Standard Hardware: .102" (2.6mm)

**D3** 1/4-40 .350" (8.9mm)  
Threaded Splashproof with D Flat



D3 combines only with S, S2 & S3 toggles. Maximum Panel Thickness with Standard Hardware: .193" (4.9mm)

**D8** 6mm/.350" (8.9mm)  
Threaded Splashproof with D Flat



D8 combines only with S, S2 & S3 toggles. Maximum Panel Thickness with Standard Hardware: .193" (4.9mm)

### Standard Hardware Supplied for Small Bushings

| Bushing Codes | S1/S4 | A1 | D1/D4 | D3/D8 | L1/L4 | L3/L8 |
|---------------|-------|----|-------|-------|-------|-------|
| Hex Nut       | 2     | 2  | 2     | 1     | 2     | 1     |
| Locking Ring  | 1     | 1  | 0     | 0     | 1     | 0     |
| Lockwasher    | 1     | 1  | 1     | 0     | 1     | 0     |
| O-ring        | 0     | 0  | 0     | 1     | 0     | 1     |

For S1, S2, A1, A2 or S4 Bushing with Keyway & for L1 or L4 Bushing



For S1, A1 or S4 Bushing with Locking Ring & for L1 or L4 Bushing



For D1, D4, D3 or D8 Bushing with D Flat & for L3 or L8 Bushing



## LARGE TOGGLES

**Toggle & Bushing Combinations:** These toggles combine with the 12mm bushings B1 & B3.

**B** .453" (11.5mm)  
Large Bat



**B2** .689" (17.5mm)  
Large Bat



**R** .610" (15.5mm)  
Large Flatted



**Standard Material & Finish:** Brass with Bright Chrome  
Optional Finishes: Contact factory for satin chrome or black.

## LARGE BUSHINGS

**B1** Large .472" (12.0mm)  
Threaded with Keyway



Maximum Panel Thickness with  
Standard Hardware: .216" (5.5mm)

**Standard Hardware for B1:**  
1 hex face nut AT503M, 1 locking ring AT506M,  
1 lockwasher AT508, and 1 hex backup nut AT527M

**B3** Large .472" (12.0mm)  
Threaded Splashproof with D Flat



Maximum Panel Thickness with  
Standard Hardware: .256" (6.5mm)

**Standard Hardware for B3:**  
1 hex face nut AT503M  
and 1 o-ring AT401P

### Panel Cutouts

**For B1 Bushing  
with Keyway**



**For B1 Bushing  
with Locking Ring**



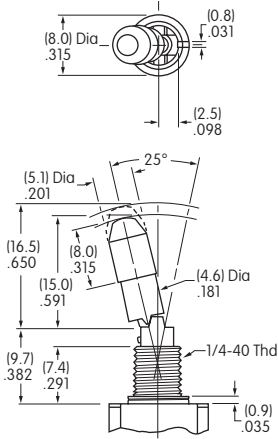
**For B3 Bushing  
with D Flat**



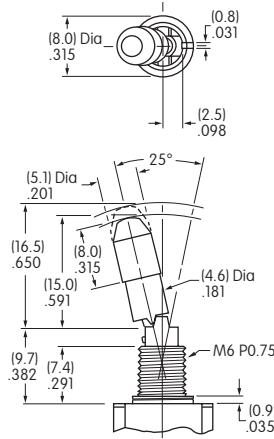


## LOCKING LEVER & BUSHINGS

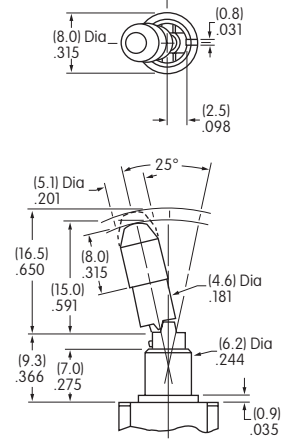
**LL1** 1/4-40 .291" (7.4mm)  
Threaded with Keyway



**LL4** 6mm/.291" (7.4mm)  
Threaded with Keyway



**LL2** Smooth with Keyway

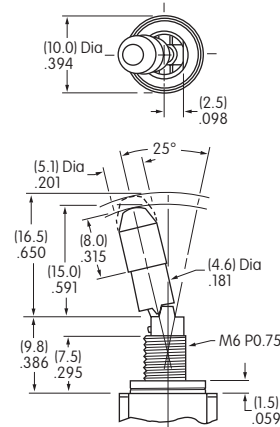


Maximum Panel Thickness with Standard Hardware: .047" (1.2mm)  
Standard Hardware for L1 & L4: 2 hex nuts AT513H or AT513M,  
1 locking ring AT507H or AT507M, and 1 lockwasher AT509

**LL3** 1/4-40 .295" (7.5mm)  
Threaded Splashproof with D Flat



**LL8** 6mm/.295" (7.5mm)  
Threaded Splashproof with D Flat



Maximum Panel Thickness with Standard Hardware: .047" (1.2mm)  
Standard Hardware for L3 and L8: 1 hex nut AT513H or AT513M and 1 o-ring AT516

Lever Material & Finish: Brass with Chrome Plating

### Locking Mechanism

on-none-on



2 positions lock

on-none-(on)



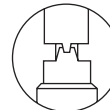
1 position locks

on-off-(on)  
on-on-(on)



2 positions lock

on-off-on  
on-on-on



3 positions lock

(on)-off-(on)  
(on)-on-(on)



1 position locks

**No Code**

Supplied with Cap AT427



Lever

Color Codes for Optional Anodized Aluminum Caps

Cap Material:  
Brass with Nickel Plating



Black



Red



Blue

## CONTACT MATERIALS & RATINGS

|   |                           |                               |  |
|---|---------------------------|-------------------------------|--|
| <b>W</b>  | Silver over Silver        | Power Level                   | 6A @ 125V AC & 3A @ 250V AC                          |
| <b>G</b>  | Gold over Brass or Copper | Logic Level                   | 6A @ 125V AC & 3A @ 250V AC                          |
| Note: See Supplement section to find complete explanation of operating range.   |                           |                               |  |
| <b>A</b>  | Gold over Silver          | Power Level<br>or Logic Level | 6A @ 125V AC<br>or 0.4VA maximum @ 28V AC/DC maximum |
| Note: This dual rated option is suitable when two or more identical switches are used in logic and in power circuits within the same application. See Supplement section to find complete explanation of dual rating and operating range. |                           |                               |  |

## TERMINALS

|  |  |           |  |                                   |           |   |           |   |  |
|--|--|-----------|--|-----------------------------------|-----------|---|-----------|---|--|
| <b>01</b>  | Solder Lug                             |           | <b>02</b>                              | .062" (1.57mm) Wide Quick Connect |           |   |           |   |  |
| <b>03</b>  | .250" (6.35mm) Straight PC             |           |  |                                   |           |   |           |   |  |
| <b>05</b>  | .425" (10.8mm) Wirewrap or Extended PC | <b>07</b> | .964" (24.5mm) Wirewrap or Extended PC |                                   | <b>06</b> | .750" (19.05mm) Wirewrap or Extended PC | <b>08</b> | 1.062" (27.0mm) Wirewrap or Extended PC | Dimension A = terminal lengths as shown beside the terminal codes at the left. |
| If using as extended PC terminal, refer to the above footprints. |  |           |  |                                   |           |   |           |   |  |

## OPTIONAL CAPS & CAP COLORS

|                        |                                  |                        |                                    |                              |                              |                              |                               |
|------------------------|----------------------------------|------------------------|------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| <b>B</b>               | AT415 Lever Cap for S Bat Toggle | <b>C</b>               | AT444 Conical Cap for S Bat Toggle | <b>R</b>                     | AT434 Lever Cap for B Toggle | <b>V</b>                     | AT406 Lever Cap for B2 Toggle |
| Material: Polyethylene |                                  | Material: Polyethylene |                                    | Material: Polyvinyl Chloride |                              | Material: Polyvinyl Chloride |                               |
|                        |                                  |                        |                                    |                              |                              |                              |                               |

Cap Colors Available: **A** Black **B** White **C** Red **E** Yellow **F** Green **G** Blue

## TYPICAL SWITCH DIMENSIONS

### Solder Lug

### Single Pole



**M2012SS1W01**

M2011 model does not have terminal 1.

### Solder Lug

### Double Pole

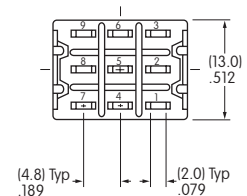


**M2022SS1W01**

M2021 model does not have terminals 1 & 4.

### Solder Lug

### Three Pole



**M2032SS1W01**

### Solder Lug

### Four Pole



**M2042SS1W01**

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

## STANDARD HARDWARE FOR SMALL & LARGE BUSHINGS

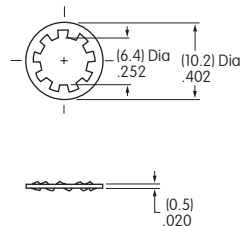
**AT513H for Inch**  
**AT513M for Metric**  
**Hex Nut**  
Brass/Nickel



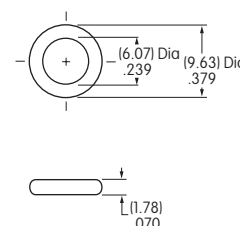
**AT507H for Inch**  
**AT507M for Metric**  
**Locking Ring**  
Steel with Zinc/Chrome



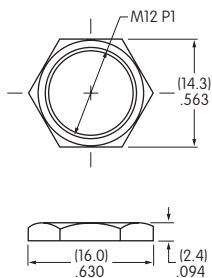
**AT509**  
**Lockwasher**  
Steel with Zinc/Chrome  
(not supplied with splashproof models)



**AT516**  
**O-ring for Splashproof Models**  
Nitrile Butadiene Rubber



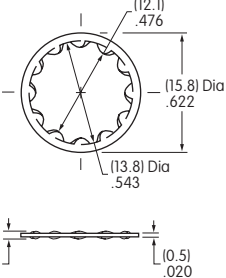
**AT503M**  
**Hex Face Nut**  
Brass/Chrome



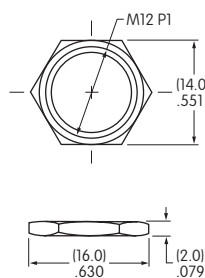
**AT506M**  
**Locking Ring**  
Steel with Zinc/Chrome



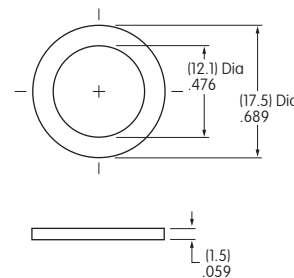
**AT508**  
**Lockwasher**  
Steel with Zinc/Chrome  
(not supplied with splashproof models)



**AT527M**  
**Hex Nut**  
Steel with Nickel Plating



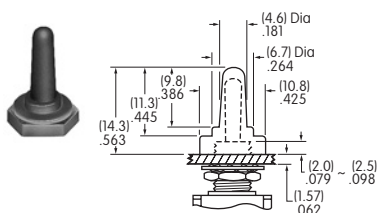
**AT401P**  
**O-ring for Splashproof Models**  
Nitrile butadiene rubber



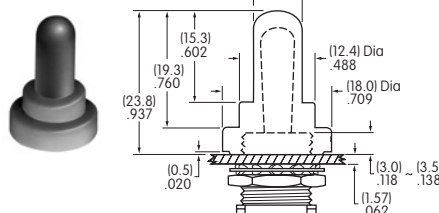
## OPTIONAL SPLASHPROOF BOOTS

Various optional nuts and ON-OFF plates are available; dimensions are shown in the Accessories & Hardware section.

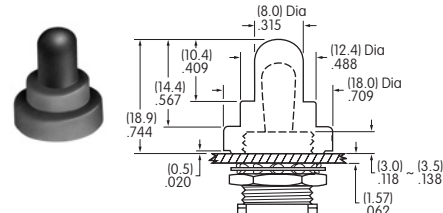
**AT428 (M-metric H-Inch)**  
**.445" (11.3mm)**  
**Boot for S Toggle**  
Silicon Rubber



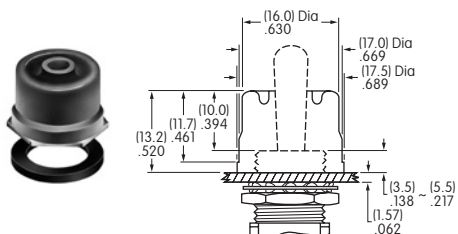
**AT402**  
**.760" (19.3mm)**  
**Boot for B2 Toggle**  
Silicon Rubber



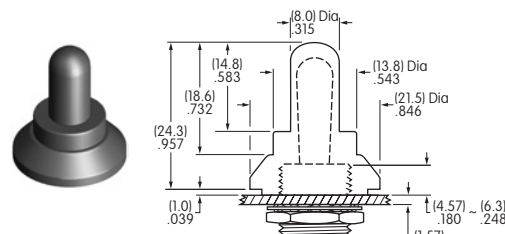
**AT402S**  
**.567" (14.4mm)**  
**Boot for B Toggle**  
Silicon Rubber



**AT401A/H/S**  
**.461" (11.7mm)**  
**Boot, Nut and O-ring for B2 Toggle**  
More details in Accessories section



**AT4181** ← NEW  
**.732" (18.6mm)**  
**Boot, Nut and O-ring for B2 Toggle**  
More details in Accessories section



A Toggles  
 Rockers  
 Pushbuttons  
 Illuminated PB  
 Programmable  
 Keylocks  
 Rotaries  
 Slides  
 Tactiles  
 Tilt  
 Touch  
 Indicators  
 Accessories  
 Supplement



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

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