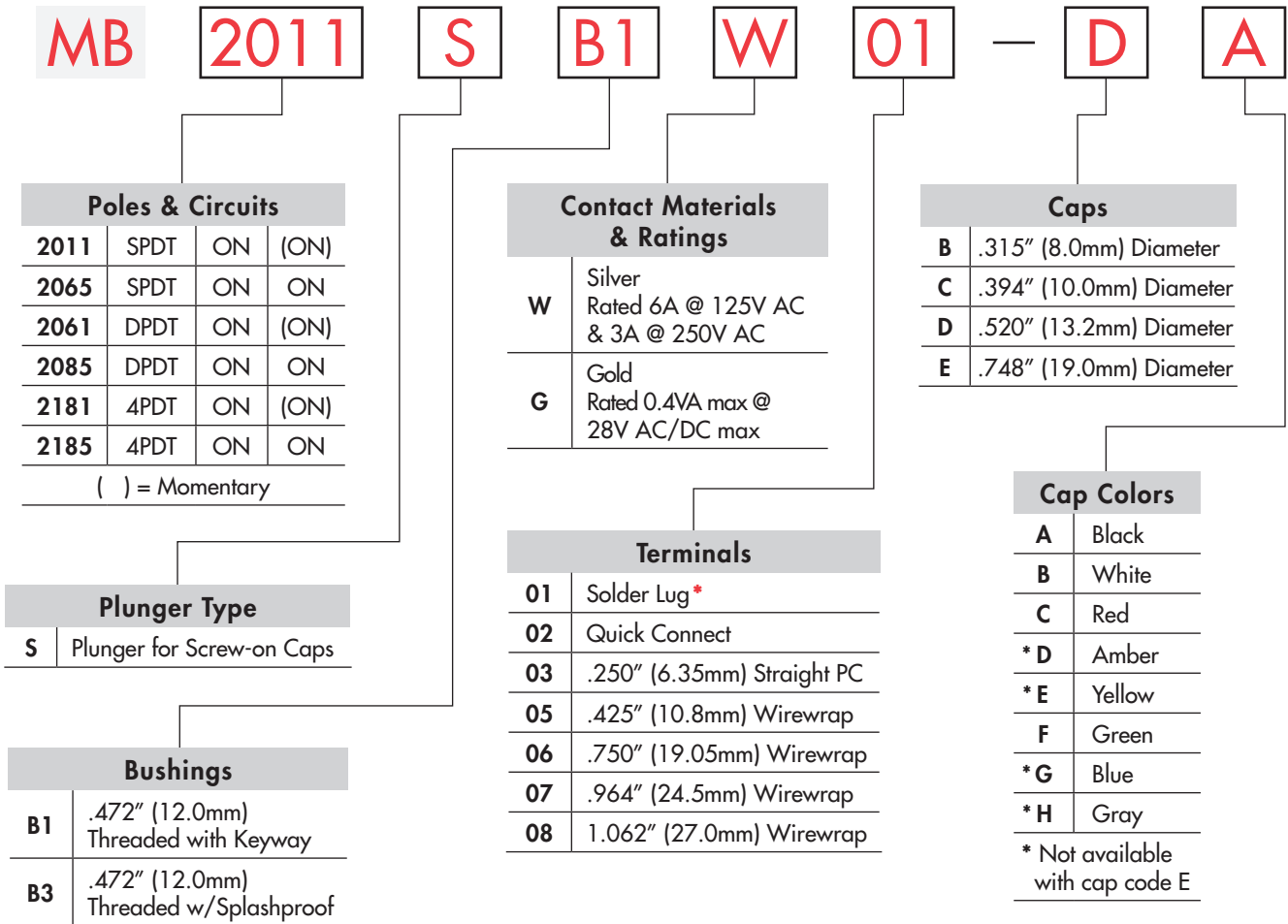


## TYPICAL SWITCH ORDERING EXAMPLE



\* Wire harness & cable assemblies offered only in Americas

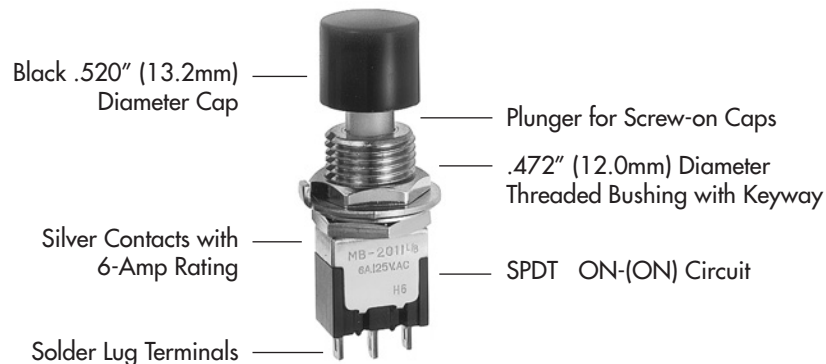
### IMPORTANT:



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.

### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

**MB2011SB1W01-DA**



Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt






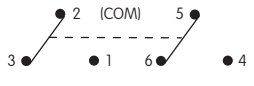
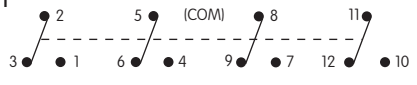
Touch

Indicators

Accessories

Supplement

## POLES & CIRCUITS

		Plunger Position ( ) = Momentary		Connected Terminals		Throw & Switch Schematics
Pole	Model	Normal 	Down 	Normal 	Down 	Note: Terminal numbers are not actually on the switch.
SP	MB2011 MB2065	ON	(ON)	2-3	2-1	SPDT 
DP	MB2061 MB2085	ON	(ON)	2-3 5-6	2-1 5-4	DPDT 
4P	MB2181 MB2185	ON	(ON)	2-3 5-6 8-9 11-12	2-1 5-4 8-7 11-10	4PDT 

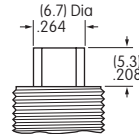
## PLUNGER TYPE

**S**

**Plunger for Screw-on Caps**  
Plunger is plastic for B1 bushing.



Plunger is metal for B3 bushing.



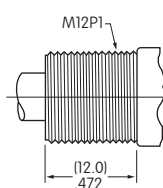
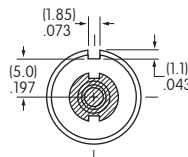
On alternate action models, after transferring circuit, the plunger returns to its original position, and does not latch down.

## BUSHINGS

**B1**

**.472" (12.0mm) Diameter Threaded with Keyway**

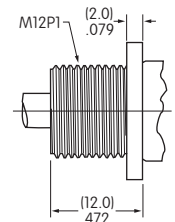
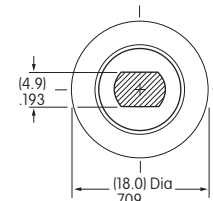
Maximum Panel Thickness with Standard Hardware: .217" (5.5mm)



**B3**

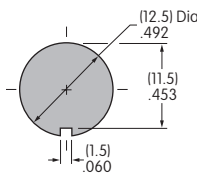
**.472" (12.0mm) Diameter Threaded Splashproof**

Maximum Panel Thickness with Standard Hardware: .217" (5.5mm)

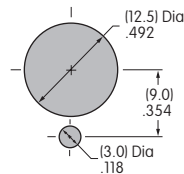


## Panel Cutouts

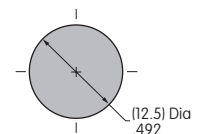
**For B1 Bushing with Keyway**



**For B1 Bushing with Locking Ring**



**For B3 Bushing without Keyway**



## CONTACT MATERIALS & RATINGS

**W**

Silver over Silver

Power Level

6A @ 125V AC & 3A @ 250V AC

**G**

Gold over Brass or Copper

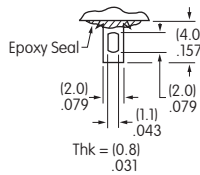
Logic Level

0.4VA maximum @ 28V AC/DC maximum

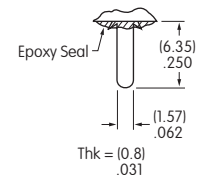
Note: Complete explanation of operating range in Supplement section.

## TERMINALS

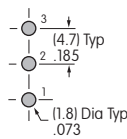
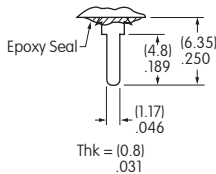
**01** Solder Lug



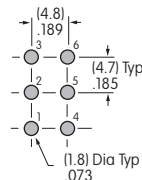
**02** .062" (1.57mm) Wide Quick Connect



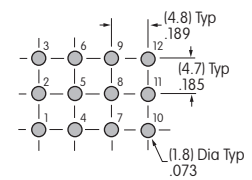
**03** .250" (6.35mm) Straight PC



Single Pole



Double Pole



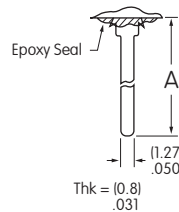
Four Pole

**05** .425" (10.8mm) Wirewrap or Extended PC

**06** .750" (19.05mm) Wirewrap or Extended PC

**07** .964" (24.5mm) Wirewrap or Extended PC

**08** 1.062" (27.0mm) Wirewrap or Extended PC



If using as extended PC terminal, refer to the above footprints.

Dimension A = terminal lengths as shown beside the terminal codes at the left.

## CAPS & CAP COLORS

**B** AT078  
.315" (8.0mm)  
Diameter Screw-on Cap

**C** AT079  
.394" (10.0mm)  
Diameter Screw-on Cap

**D** AT414  
.520" (13.2mm)  
Diameter Screw-on Cap

**E** AT412  
.748" (19.0mm)  
Diameter Screw-on Cap

Material:  
Polystyrene  
Finish:  
Glossy



Material:  
Polystyrene  
Finish:  
Glossy



Material:  
PBT  
Finish:  
Glossy



Material:  
Polystyrene  
Finish:  
Glossy

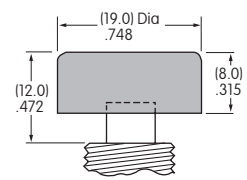
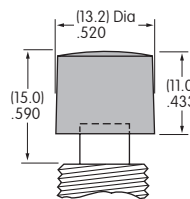
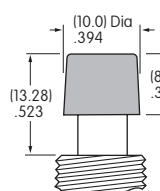
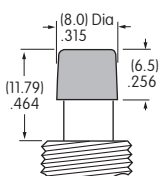


Colors Available:  
A B C E F G H

Colors Available:  
A B C E F G H

Colors Available:  
A B C D E F G H

Colors Available:  
A B C F



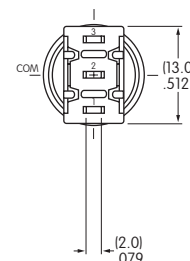
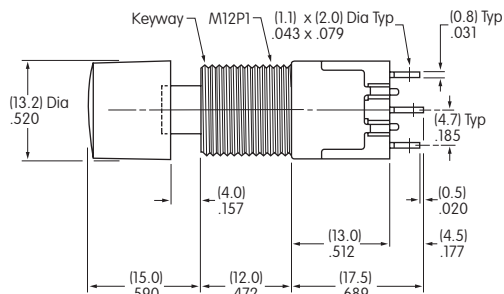
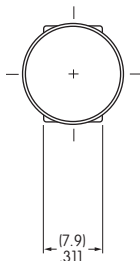
Cap Color  
Codes:

**A** Black **B** White **C** Red **D** Amber **E** Yellow **F** Green **G** Blue **H** Gray

## TYPICAL SWITCH DIMENSIONS

### Solder Lug

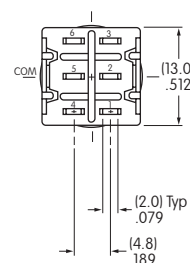
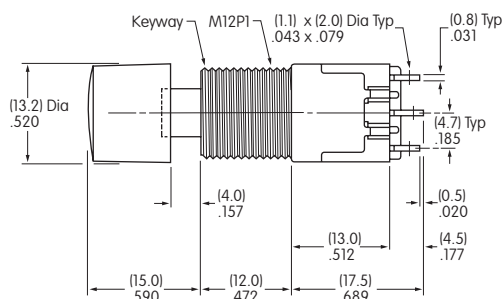
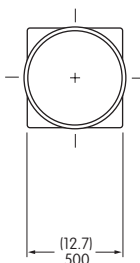
### Single Pole



**MB2011SB1W01-DA**

### Solder Lug

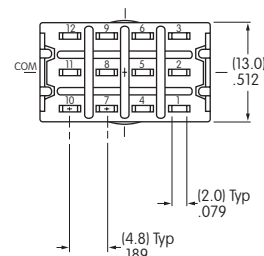
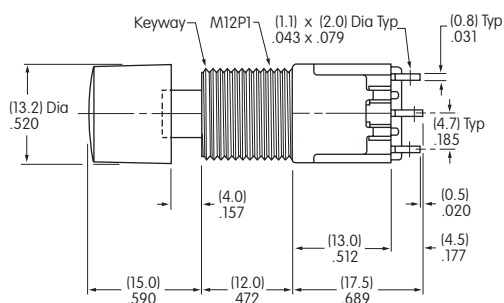
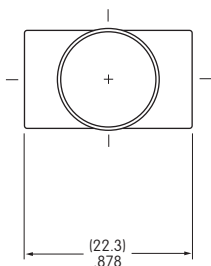
### Double Pole



**MB2061SB1W01-DA**

### Solder Lug

### Four Pole



**MB2181SB1W01-DA**

Toggle

Rockers

Pushbuttons

Programmable Illuminated PB

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

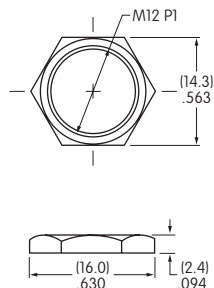
Supplement

## HARDWARE

### Standard Hardware for B1 Bushing

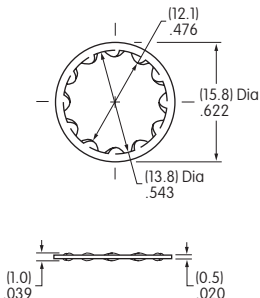
#### AT503M Hex Face Nut

Material:  
Brass with Chrome plating



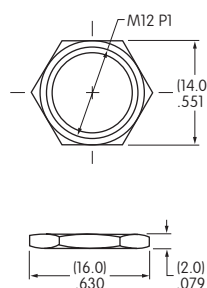
#### AT508 Lockwasher

Material:  
Steel with Zinc/Chromate



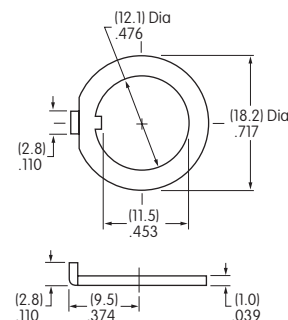
#### AT527M Hex Nut

Material:  
Steel with Nickel plating



#### AT506M Locking Ring

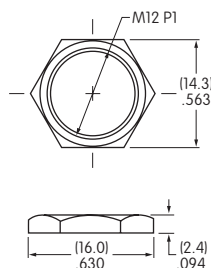
Material:  
Steel with Zinc/Chromate



### Standard Hardware for B3 Bushing

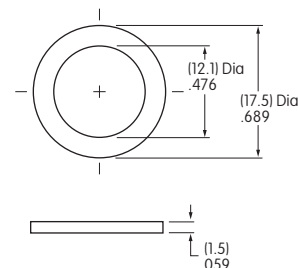
#### AT503M Hex Face Nut

Material:  
Brass with Chrome plating



#### AT401P O-ring

Material:  
Nitrile butadiene rubber

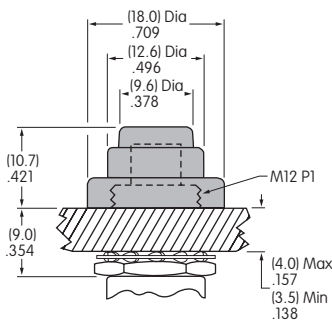


### Optional Splashproof Boot for B1 Bushing

#### AT4043 Splashproof Boot

Material: Silicone Rubber  
Operating Life: 10,000 for momentary  
30,000 for alternate action

When using a splashproof boot, no cap is required.



## CUSTOM ASSEMBLY ORDERING EXAMPLE

The MB2000 pushbutton series offers flexibility to accommodate a variety of applications. Using a basic large bushing model, different accessories can be assembled onto the switch to achieve the mounting variations shown on the following two pages.

- These switches have:
- 12mm diameter threaded bushing with keyway
  - Silver contacts
  - 6-Amp rating
  - Solder lug terminals

Other 12mm bushing options can be used; see details in preceding Large Bushing Ordering tables.

**MB2011**

**SB1W01**

**4**

**C**

**A**

Poles & Circuits			
<b>2011</b>	SPDT	ON	(ON)
<b>2065</b>	SPDT	ON	ON
<b>2061</b>	DPDT	ON	(ON)
<b>2085</b>	DPDT	ON	ON
4-pole available			
( ) = Momentary			

Mounter Shapes For Shroud	
<b>4</b>	Round
<b>5</b>	Rectangular

Cap Colors For Shroud	
<b>A</b>	Black
<b>B</b>	White
<b>C</b>	Red
<b>F</b>	Green
<b>G</b>	Blue
<b>H</b>	Gray

Mounter Colors For Shroud	
<b>A</b>	Black
<b>B</b>	White
<b>H</b>	Gray

Cap Colors For Snap-In	
<b>A</b>	Black
<b>B</b>	White
<b>C</b>	Red
<b>F</b>	Green



**Round Shroud**  
**MB2011SB1W01-4C-A**



**Rectangular Shroud**  
**MB2011SB1W01-5C-A**

See custom assemblies on following pages.

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

MOUNTER SHAPES FOR SHROUDS

**4** AT455 Round

Material: Polycarbonate  
Colors: A B H



**5** AT453 Rectangular

Material: Polycarbonate  
Colors: A B H



CAPS & CAP COLORS FOR SHROUDS

AT454 Round  
Insert Cap

Material: Polycarbonate  
Colors: A B C F G H



AT452 Rectangular  
Insert Cap

Material: Polycarbonate  
Colors: A B C F G H



AT080 Screw Adaptor for Insert Caps

Material: Brass



Color Codes:

- A** Black
- B** White
- C** Red
- F** Green
- G** Blue
- H** Gray

Toggle

Rockers

**C** Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

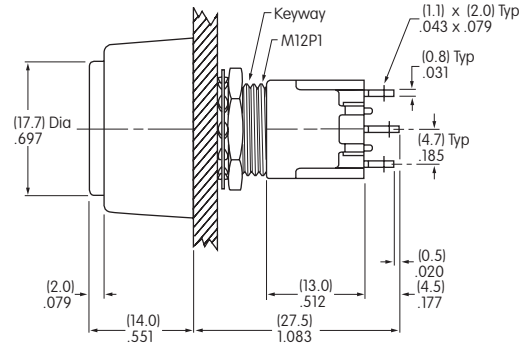
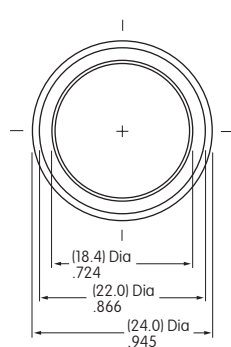
Accessories

Supplement

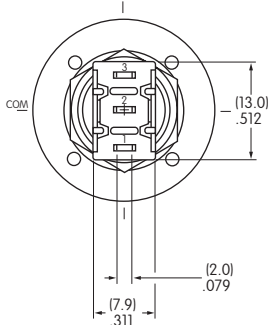
## CUSTOM ASSEMBLY WITH ROUND SHROUD



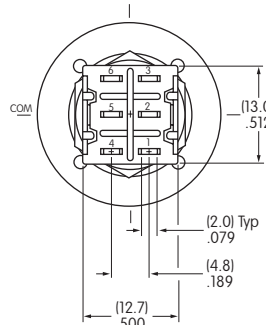
**MB2011SB1W01-4C-A**



### Single Pole



### Double Pole

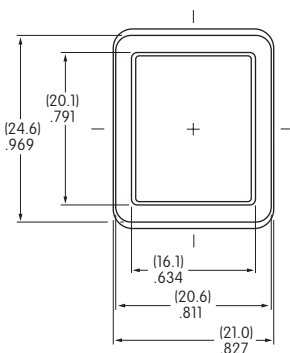


Effective Panel Thickness:  
.217" (5.5mm) maximum

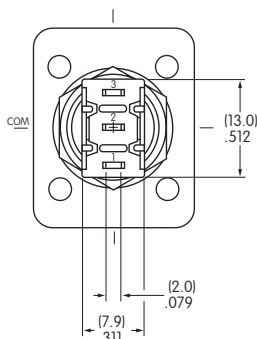
## CUSTOM ASSEMBLY WITH RECTANGULAR SHROUD



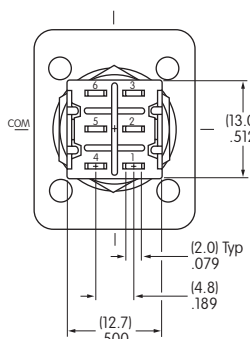
**MB2011SB1W01-5C-A**



### Single Pole



### Double Pole



Effective Panel Thickness:  
.217" (5.5mm) maximum



