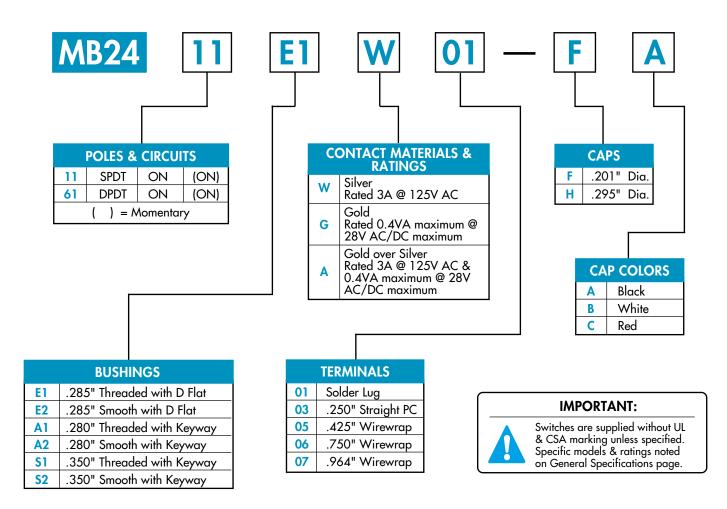
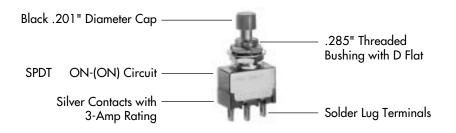


Momentary Snap-Action Miniature Pushbutton Switches

### **TYPICAL SWITCH ORDERING EXAMPLE**



### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE MB2411E1W01-FA





Momentary Snap-Action Miniature Pushbutton Switches

### **GENERAL SPECIFICATIONS**

### **Electrical Capacity (Resistive Load)**

Power Level (code W):	3A @ 125V AC	
Logic Level (code G):	0.4VA maximum @ 28V AC/DC maximum	
Power/Logic Level (code A):	Combines W & G ratings	
Note: See Supplement Index (page Z1) to find explanation of dual rating & operating range.		

### **Other Ratings**

Contact Resistance:	20 milliohms maximum for silver; 30 milliohms maximum for gold
Insulation Resistance:	1,000 megohms minimum @ 500V DC
Dielectric Strength:	1,000V AC minimum between contacts; 1,500V AC minimum between contacts & case
Mechanical Life:	200,000 operations minimum
Electrical Life:	25,000 operations minimum for silver; 100,000 operations minimum for gold
Nominal Operating Force:	Single pole 250 grams; double pole 400 grams
Travel:	0.6mm (.024") pretravel; 0.4mm (.016") overtravel; 1.0mm (.039") total travel

### **Materials & Finishes**

Plunger:	Brass with nickel plating
Bushing:	Brass with nickel plating
O-ring:	Nitrile butadiene rubber
Frame:	Stainless steel
Case:	Glassfiber reinforced polyester (PBT)
Base:	Diallyl phthalate resin
Movable Contactor:	Phosphor bronze with silver or gold plating
Movable Contacts:	Silver alloy (code W); copper with gold plating over nickel plating (code G); or
	silver alloy with gold plating over nickel plating (code A)
Stationary Contacts:	Silver with silver plating (code W); copper or brass with gold plating
	over nickel plating (code G); or silver with gold plating over nickel plating (code A)
Terminals:	Copper or brass with silver plating; copper or brass with gold plating over nickel plating

### **Applicable Environment**

<b>Operating Temp Range:</b>	-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 acceleration (tested in 6 right angled directions, with 3 shocks in each direction)
Sealing:	Dustproof bushing

### Installation

Mounting Torque:	15kgf/cm (13lb/in) for double nut; 7kgf/cm (6lb/in) for single nut
Cap Installation Force:	8.16 kg (18 lbs) maximum permissible
<b>č</b>	3 seconds @ 350°C or 5 seconds @ 270°C Not available

### **Standards & Certifications**

Flammability Standards:	UL94V-0 available
UL Recognized:	All single & double pole models recognized at 3A @ 125V AC or
	0.4A @ 28V DC; UL File No. E44145
CSA Certified:	Single pole models with PC, solder lug, or Wirewrap terminals &
	double pole models with PC or Wirewrap terminals certified at 3A @ 125V AC or
	0.4VA @ 28V AC/DC maximum; CSA File No. LR23535

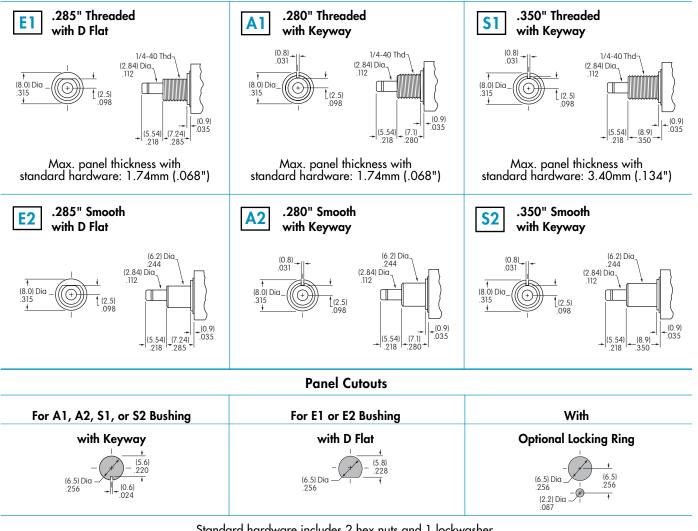


Momentary Snap-Action Miniature Pushbutton Switches

	POLES & CIRCUITS						
<b>Plunger Position</b> ( ) = Momentary		Connected Terminals		Throw & Schematics			
		Normal	Down	Normal	Down	Nata Tamainal auraham ara	
Pole	Model	,-Keyway		Keyway		Note: Terminal numbers are not actually on the switch.	
SP	MB2411	ON	(ON)	1-3	1-2	SPDT 1 (COM) 3 • 2	
DP	MB2461	ON	(ON)	1-3 4-6	1-2 4-5	DPDT 4 • 5	

### **BUSHINGS**

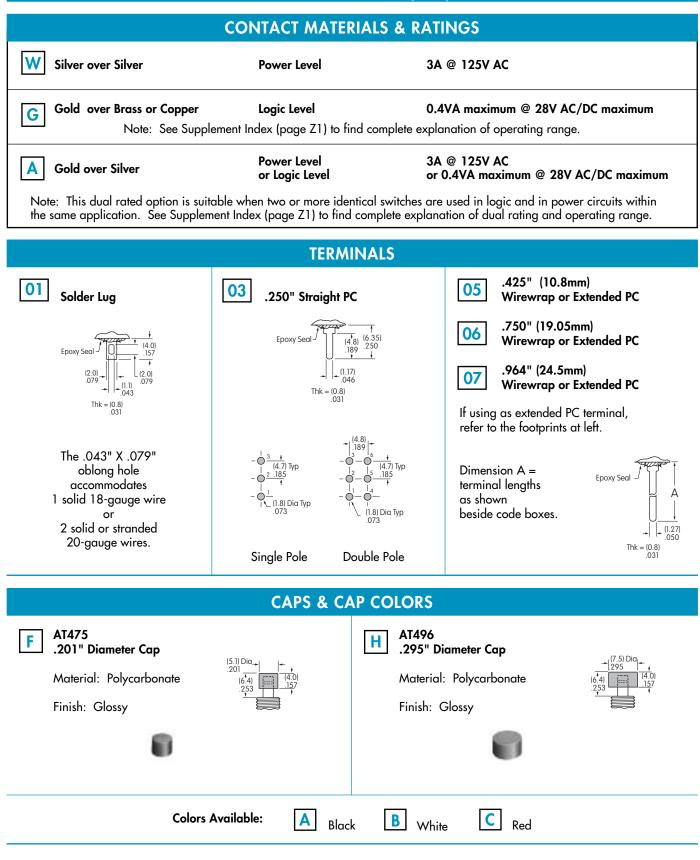
Note: Plunger selection is not required for MB2400 pushbuttons. The plunger can be used with or without a cap.



Standard hardware includes 2 hex nuts and 1 lockwasher. Hardware is illustrated following the Typical Switch Dimension drawings.



Momentary Snap-Action Miniature Pushbutton Switches





Momentary Snap-Action Miniature Pushbutton Switches

### **TYPICAL SWITCH DIMENSIONS**

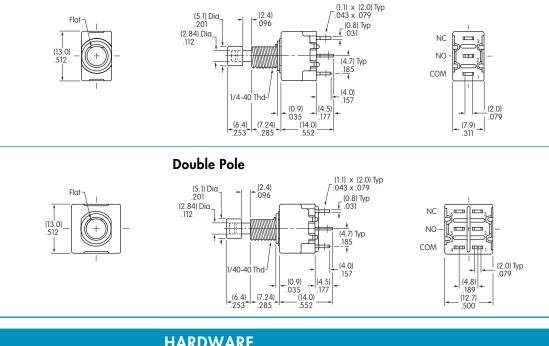


MB2411E1W01-FA

Solder Lug



**Single Pole** 



## HARDWARE

### **Standard Hardware**

#### AT513H Inch Threaded Hex Nut 2 included with each switch

Brass, nickel plated

MB2461E1W01-FA

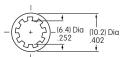


(9.0)

(1.5)

AT509 Lockwasher 1 included with each switch

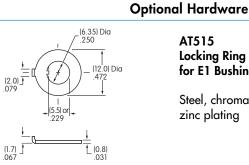
Steel, chromate over zinc plating



(0.5) .020

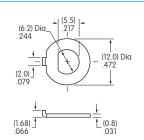
AT507H Locking Ring for A1 or S1 Bushing

Steel, chromate over zinc plating



#### AT515 Locking Ring for E1 Bushing

Steel, chromate over zinc plating



### **Decorative Hardware**

Dimensioned illustrations of this hardware are in the Accessories & Hardware section; see page Y1.





AT532 Dress Nut



