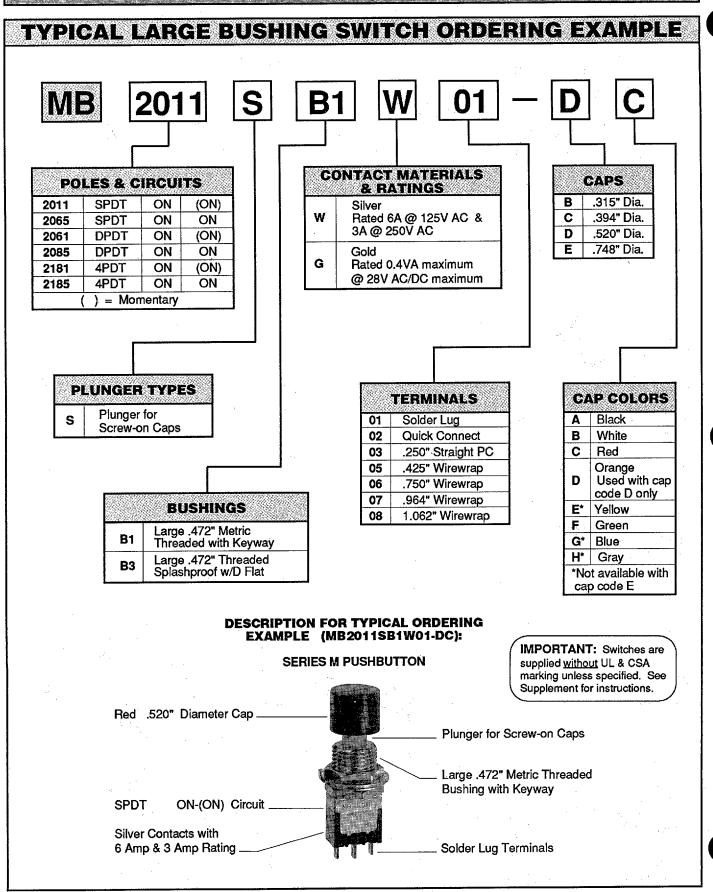


MOMENTARY & ALTERNATE/1-4 POLE/LARGE BUSHING



MOMENTARY & ALTERNATE/1-4 POLE/LARGE BUSHING

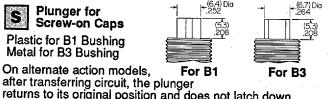
POLES & CIRCUITS

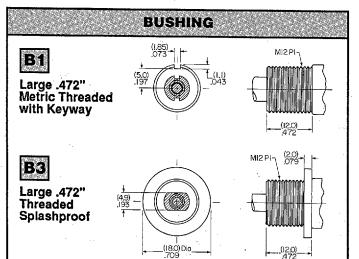
For poles and circuit information, refer to the details contained in the Poles & Circuits Chart appearing in the previous bushing mount section.

PLUNGER TYPES



On alternate action models, For B1 after transferring circuit, the plunger returns to its original position and does not latch down.





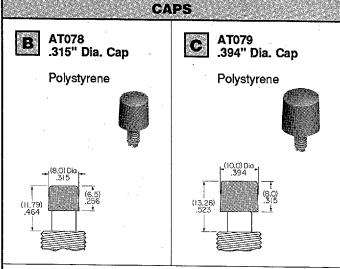
CONTACT MATERIALS & RATINGS

W

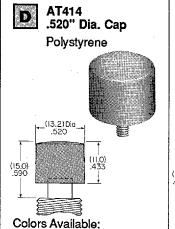
Silver over Silver Rated 6A @ 125V AC & 3A @ 250V AC



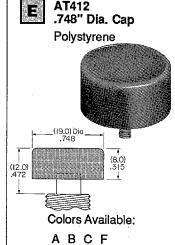
Gold over Brass or Copper Rated 0.4VA max @ 28V AC/DC max



Colors Available: A B C E F



ABCDEFGH

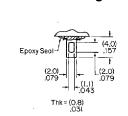


Color Codes:

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

E Yellow

TERMINALS .062" Wide 01 02



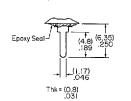
Solder Lug

Quick Connect

Corresponds to AMP #60900-1 receptacle

Thk = (0.8)

03 .250" Straight PC



Wirewrap .425"

05 (10.8mm).750" 06 (19.05mm)

.964" 07 (24.5mm)

1.062" 08 (27.0mm)

Dimension A = wirewrap terminal lengths as shown beside code boxes.

Epoxy Seal

(1.17)

Thk = (0.8) .031

MOMENTARY & ALTERNATE 5

OPTIONAL SPLASHPROOF BOOT

AT4043 Splashproof Boot

Silicone Rubber

Operating Life: 100,000 for momentary 30,000 for alternate action

(18.0) Dia _(12.6) Dia_ .496 (4.0) Max .157 (3,5) Min ,138

When using a splashproof boot, no cap is required.

SOLDERING & WIRING

Soldering:

3 seconds @ 350°C

5 seconds @ 270°C

Wiring:

Solder lug terminals have .043" X .079" oblong holes which accommodate 1 solid 18-gauge wire or 2 solid or stranded 20-gauge wires.

OPTIONAL MOUNTER

AT528 **Snap-in Mounter**

Fiberglass reinforced nylon

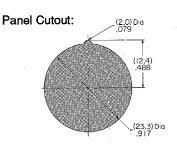
Black only available



Used with .748" diameter cap only

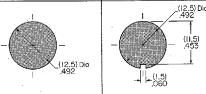
Panel Thickness:

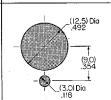
1.0mm - 4.0mm (.039" - .157")



The mounter may be ordered assembled to the switch by entering "AT528" immediately after the switch part number. Mounters may also be ordered separately.

PANEL CUTOUT & PANEL THICKNESS Without With With Locking Ring Keyway Keyway (12.5) Dia .492





Effective Panel Thickness with Standard Hardware:

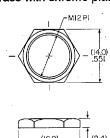
5.5mm (.217") maximum

P	PC BOARD MOUNTING				
Single Pole	Double Pole	Four Pole			
- (4.7) Typ - (4.7) Typ - (1.85) - (1.8) Dia Typ - (7.3)	(4.8)	-\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -			

STANDARD MOUNTING HARDWARE PROVIDED WITH SWITCHES

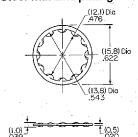
AT503 **Hex Nut**

Brass with chrome plating



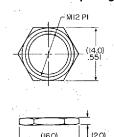
AT508 Lockwasher

Steel with zinc plating

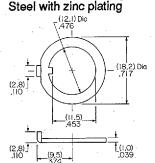


AT527M for Metric **Hex Nut**

Steel with nickel plating



AT506 Locking Ring



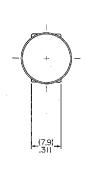
98E 📟 6428776 0002074 216 🖿

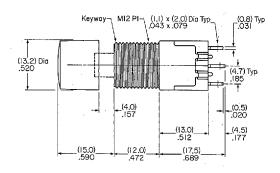
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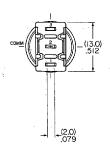
MOMENTARY & ALTERNATE/1-4 POLE/LARGE BUSHING







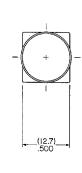


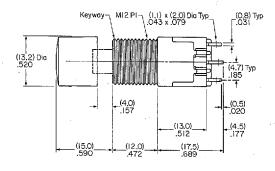


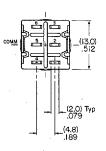
MB2011SB1WO1-DC Model Shown

Large Bushing/Solder Lug/Double Pole





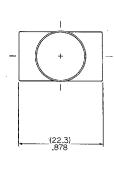


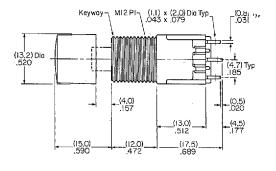


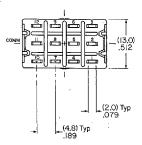
MB2061SB1WO1-DC Model Shown

Large Bushing/Solder Lug/Four Pole







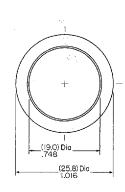


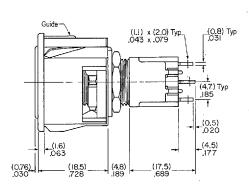
MB2181SB1WO1-DC Model Shown

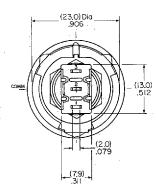
MOMENTARY & ALTERNATE/1-4 POLE/LARGE BUSHING

Large Bushing/Solder Lug/Single Pole with Snap-in Mounter



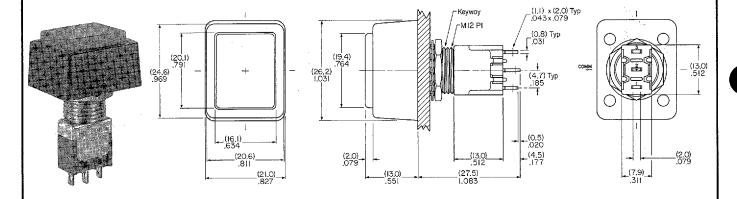






Model shown is MB2011SB1W01 with optional Snap-in Mounter AT528 and .748" Diameter Cap AT412.

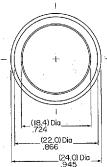
Large Bushing/Solder Lug/Single Pole with Rectangular Shroud

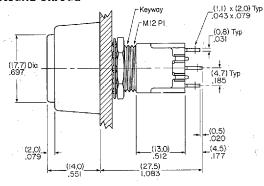


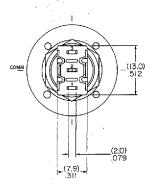
Model shown is MB2011SB1W01 with optional Rectangular Shroud AT453, Shroud Insert AT452 and Screw Adaptor for Insert AT080. When assembling, use only AT508 and AT527M of the standard hardware provided. For material, color availability and dimensions of these accessories, see the Accessories Section at the end of this catalog.

Large Bushing/Solder Lug/Single Pole with Round Shroud









Model shown is MB2011SB1W01 with optional Round Shroud AT455, Shroud Insert AT454 and Screw Adaptor for Insert AT080. When assembling, use only AT508 and AT527M of the standard hardware provided. For material, color availability and dimensions of these accessories, see the Accessories Section at the end of this catalog.

SUBMINIATURE/MOMENTARY & ALERNATE/1-4 PO

GENERAL SPECIFICATIONS

Electrical Capacity:

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

(Resistive Load)

6A @ 30V DC

0.4VA maximum @ 28V maximum AC/DC

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

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

1.500V AC minimum between contacts and case

Mechanical Life:

100,000 operations minimum

50,000 operations minimum for splashproof devices

Electrical Life:

25,000 operations minimum for silver 50,000 operations minimum for gold

Nominal Operating Force:

<u>Momentary</u> 950 grams Alternate Action

Single Pole Double Pole Four Pole

1,650 grams

450 grams

2,400 grams

720 grams 1,200 grams

Ambient Temp Range:

-15°C through +85°C (+5°F through +185°F) Optional low temperature lubricant available

N	IATERIALS & FINISHES	
Plunger	Brass w/nickel plating; polyacetal resin (B1 bushing)	
Bushing	Brass with nickel plating	
Frame	Stainless steel	
Case	Diallyphthalate resin (UL 94V-0 flammability rating)	
Movable Contactor	Phosphor bronze with silver or gold plating*	
Movable Contacts	Silver alloy (code W); silver alloy with gold plating* over nickel (code A); or copper with gold plating* over nickel (code G)	
Stationary Contacts	y Contacts Silver with silver plating (code W); silver with gold plating* over nickel (code A); or copper or brass with gold plating* over nickel (code G)	
Terminals	Copper or brass with silver plating; copper or brass with gold plating over nickel	
* Gold plating on co	ntacts is 1 micron minimum.	

UL & CSA

UL File No. E44145

All models with ratings of 6A @ 125V AC, 3A @ 250V AC, and 0.4VA @ 28V AC/DC are recognized by Underwriters Laboratories Inc.

CSA File Nos. LR 23535 and LR56017

Models rated 6A @ 125V AC, 3A @ 250V AC, and 0.4VA @ 28V AC/DC certified by Canadian Standards Association: 1-pole with PC, solder lug, and wirewrap; 2- and 4-pole with PC, solder lug, wirewrap, and quick connect.

	With Screw-on Cap		With Snap-on Caps Momentary & Alternate Action
	Momentary	Alternate Action	Momentary & Alternate Action
Pretravel	0.71mm (.028")	2.80mm (.110")	3.19mm (.125")
Overtravel	1.09mm (.043")	1.10mm (.043")	1.26mm (.050")

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Antirotation feature is standard on noncylindrical levers.

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

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

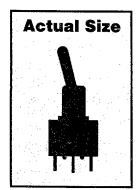
Stainless steel frame resists corrosion.

Patented silver contacts of specially composed alloy for hardness.

High insulating barriers, formed in _ the molded diallylphthalate case. increase isolation of circuits in multipole devices and provide added protection to contact points.

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

Prominent external insulating barriers increase insulation resistance and dielectric strength.



Interlocked actuator block prevents switch failure due to biased lever movement.

Longer center solder lug terminal simplifies wiring and soldering.

Clinching of the frame to the case well above the base and terminals provides 1500V dielectric strength.

MKK.

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67021K512 67081K512X 701PB580 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001
MML23KW3AA01W 8418K2 8442K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911
8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837
PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02 A3A-7140 A3A-7310 A3A-7340 A3U-TMW-A2C-5M A595 12037A2ULCSA ABD122N-B