

## General Specifications

### Electrical Capacity (Resistive Load)

**Power Level:** 6A @ 125V AC & 3A @ 250V AC or 6A @ 30V DC

### Other Ratings

**Contact Resistance:** 10 milliohms maximum for solder lug & screw terminal models  
30 milliohms maximum for wire lead terminal models

**Insulation Resistance:** 200 megohms minimum @ 500V DC

**Dielectric Strength:** 1,500V AC minimum for 1 minute minimum

**Mechanical Life:** 30,000 operations minimum

**Electrical Life:** 15,000 operations minimum

**Contact Timing:** Break before make

**Total Travel:** Alternate Action .177" (4.5mm); Momentary Action .110" (2.8mm)

### Materials & Finishes

**Plunger:** Brass with nickel plating

**Bushing & Outer Case:** Fiberglass reinforced polyamide (UL94V-0 outer case)

**Inner Case:** Melamine

**Inner Sealing Ring:** Silicone rubber

**Outer Sealing Ring:** Natural rubber

**Movable Contactor:** Copper with silver plating

**Movable Contacts:** Silver alloy with silver plating

**Stationary Contacts:** Silver alloy with silver plating

**Terminals:** Brass with silver plating for screw lug models;  
brass with tin plating for solder lug & wire lead models

**Wire Lead Covers:** Heat resistant polyvinyl chloride (Leads are AWG 16.)

### Environmental Data

**Operating Temp Range:** -30°C through +70°C (-22°F through +158°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)

### Installation

**Mounting Torque:** 1.5Nm (13 lb•in)

**Soldering Time & Temp:** Manual Soldering: See Profile A in Supplement section.

### Standards & Certifications

**Flammability Standards:** UL94V-0 outer case

**Wiring Material Standards:** UL AWM 1015 Recognized at Flammability VW-1;  
Temperature Range -20°C ~ +105°C; Maximum Load 600V; AWG 16  
CSA TEW 105 Certified at Temperature Range -20°C ~ +105°C;  
Maximum Load 600V

# Distinctive Characteristics

Single unit construction of the bushing and case gives added protection from environmental elements.

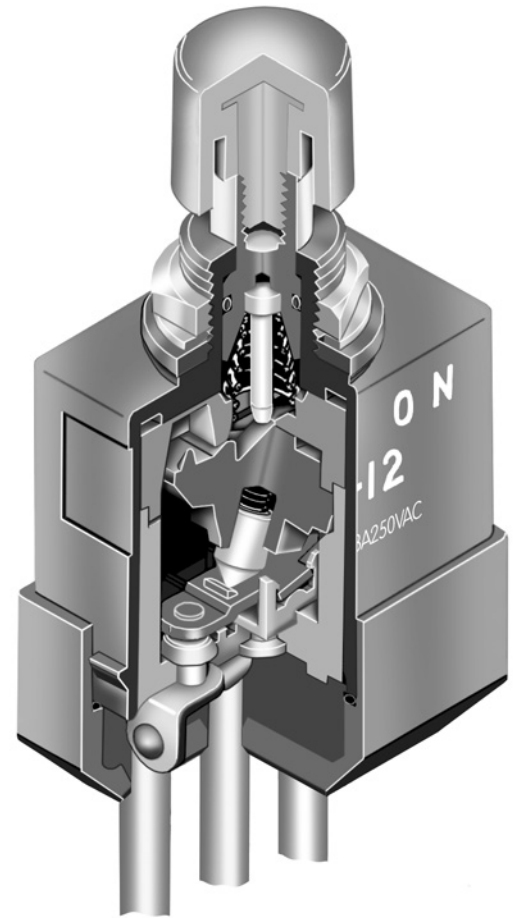
Specially designed contact mechanism for breaking light welds.

Minimal contact bounce is achieved with specially designed interlocked switching mechanism.

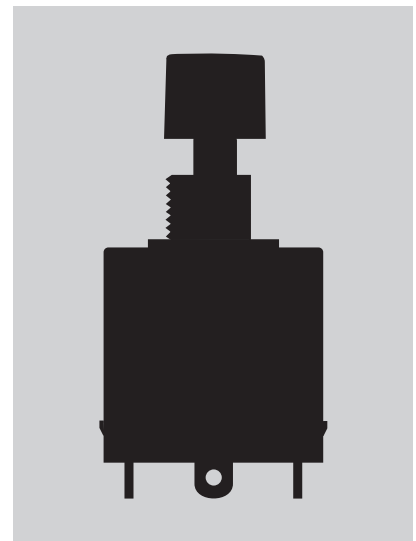
Outer housing of heat resistant resin meets UL 94V-0 flammability standard and provides high arc and tracking resistance.

Solder lug and screw terminal models meet IP67 of IEC60529 Standards at front panel (dust tight and water protected for temporary immersion). Behind panel standard is IP60 (dust tight but not water protected).

Wire lead models conform fully to IP67 of IEC60529 Standards at front and behind panel (dust tight and water protected for temporary immersion). These models are epoxy sealed at the switch base and covered by an outer case for further protection from dust and water (not operable under water).



Actual Size



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

## TYPICAL SWITCH ORDERING EXAMPLE

**WB**

**1**

**2**

**S**

**D**

**A**

### Poles

1 SPDT

### Circuits

2 ON ON  
5 ON (ON)

( ) = Momentary

### Terminals

S Solder Lug\*  
T Screw Lug  
L Wire Lead

### Caps

D .520" (13.2mm) Dia.  
E .748" (19.0mm) Dia.

### Cap Colors

A Black  
B White  
C Red  
\*D Amber  
\*E Yellow  
F Green  
\*G Blue  
\*H Gray  
\* Not available with cap code E

### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

**WB12S-DA**



\* Wire harness & cable assemblies offered only in Americas

## POLES & CIRCUITS

		Actuator Position ( ) = Momentary		Connected Terminals		Throw & Schematics
Pole	Model	Normal 	Down 	Normal 	Down 	Note: Terminal numbers are not actually on wire lead models.  SPDT
SP	<b>WB12</b>	ON	ON	1-1b	1-1a	
SP	<b>WB15</b>	ON	(ON)	1-1b	1-1a	

## STANDARD WIRE COLOR SCHEME

Wire leads are covered with heat resistant vinyl in accordance to UL 1015 and CSA TEW 105 Standards for Appliance Wiring Material (AWM).

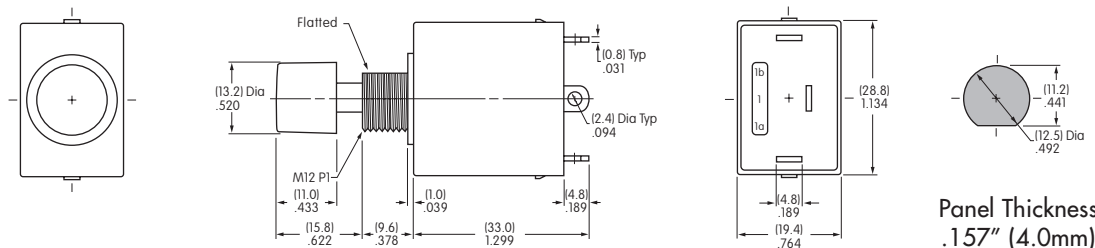
Terminal Numbers & Wire Colors			
Models	1a	1	1b
WB12L, WB15L	White	Black	Red

## TYPICAL SWITCH DIMENSIONS

### Solder Lug



**WB15S-DA**



Panel Thickness .157" (4.0mm)

## TYPICAL SWITCH DIMENSIONS

Screw Lug

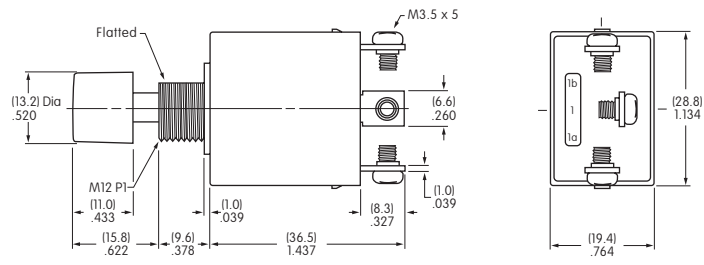
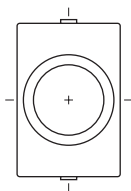


WB12T-DA

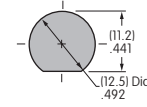
Wire Lead



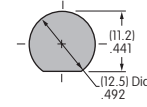
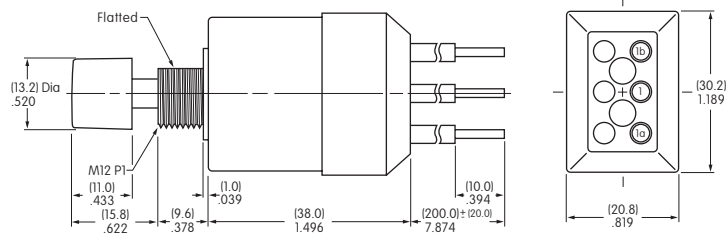
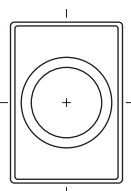
WB12L-DA



Panel Thickness  
.157" (4.0mm)



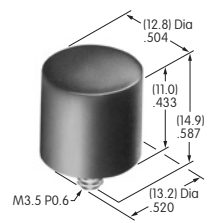
Panel Thickness  
.157" (4.0mm)



## CAPS & CAP COLORS

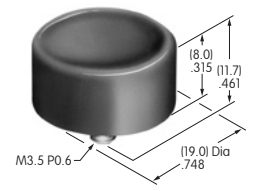
**D** AT414  
.520" (13.2mm) Diameter

Colors Available:  
A B C D E F G H  
Material: PBT Finish: Glossy



**E** AT412  
.748" (19.0mm) Diameter

Colors Available:  
A B C F  
Material: Polystyrene Finish: Glossy

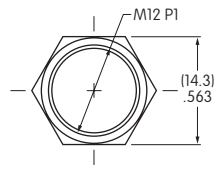


- Cap Color Codes: **A** Black **B** White **C** Red **D** Amber **E** Yellow **F** Green **G** Blue **H** Gray

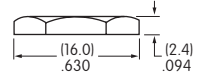
## STANDARD HARDWARE

AT503M  
Hex Face Nut

Material:  
Brass with  
chrome plating

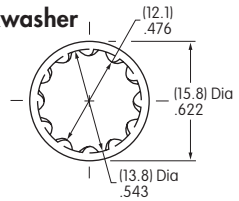


1 supplied  
with each  
switch



AT508  
Internal Tooth Lockwasher

Material:  
Steel with  
zinc/chromate

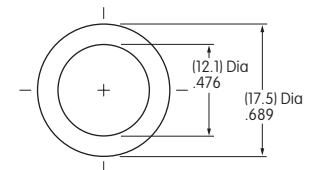


1 supplied  
with each  
switch

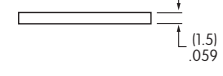


AT401P  
O-ring

Material:  
Nitrile  
butadiene  
rubber



1 supplied  
with each  
switch



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

# Notes

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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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