

641/110P-Series Pushbutton Switches

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The single pole 110 and 641 series represent the most compact offerings of our pushbutton switch line. Rugged metal construction, self cleaning contacts and stiff actuation force (3-3 1/2 lbs. typical) have made these switches ideal for most "foot pedal" type applications. These alternate action switches fit a standard .500" mounting hole, have termination options including solder lug, wire lead and PC, and are popular within The Music Industry and Audio-visual market segments.

Dielectric Strength

UL/CSA: 1000V - live to dead metal & opposite polarity

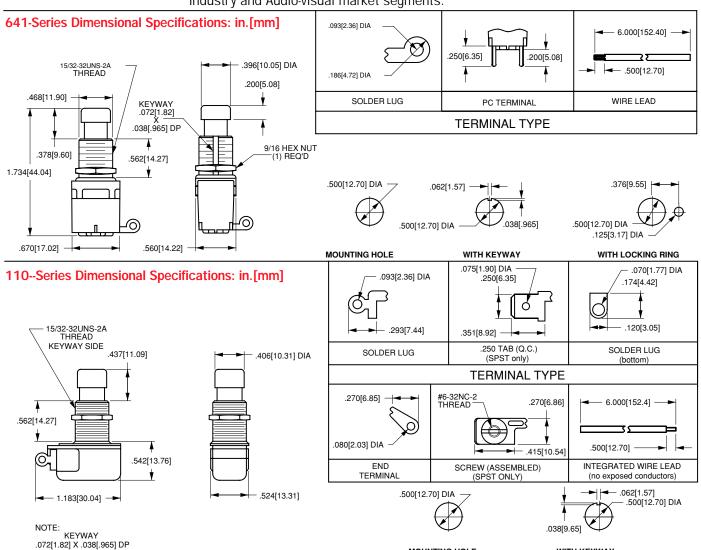
Electrical Life 100,000 cycles

Mechanical Life 25,000 cycles

Operating Temperature

WITH KEYWAY

32°F to 185°F (0°C to +85°C)



64111210

Part Number

1 PART NUMBER: SERIES/ POLES/ RATING / CIRCUITRY/ TERMINATION 641-SERIES

MOUNTING HOLE

single pole double pole 2A 250VAC, 5A 125VAC solder lug PC term wire leads solder lug PC term wire leads 6411210 ON-OFF 6412210 6412212 6411212 6411215 6412215 6411220 6411222 ON-ON 6412220 6412222 6412225 6411225

110-SERIES

single pole 3A 250VAC, 6A 125VAC, AC/DC

solder lug solder lug (btm) screw term wire lead .250 tab ON-OFF 110-P 110-BP 110-SP 111-16-P 110-P-TABS OFF-(ON) 110-PM-OFF 110-PBM-OFF 110-SPM-OFF 111-PM-OFF 110-PM-OFF-TABS ON-(OFF) 110-PM-0N 110-PBM-ON 110-SPM-ON 111-PM-ON 110-PM-ON-TABS

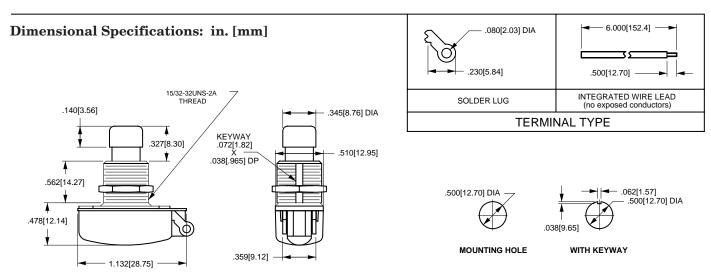
16-3P-Series



The 16-3P-Series pushbutton switches are single pole and AC rated up to 3 amps. These momentary action switches have a slow-make, slow-break contact mechanism and require only light actuation force (4 oz. - 1 lb.).

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Brass/Nickel Plate
- Bushing Material: Brass/Nickel Plate
- * Due to ongoing technological advances, consult factory for certification specifics.



16-3POFF

PLASTIC COLOR CAP

BUSHING¹

4

2

.312

| STANDARD PLUNGER | WITH OVERTRAVEL | TERMINAL | SINGLE POLE CIRCUIT | RATING |
|-----------------------|-----------------------------|-------------------------|------------------------|-----------|
| 16-3POFF 16-3APOFF | 16-3POFF-OV 16-3APOFF-OV | | OFF-NONE-(ON) | 3A 125VAC |
| 16-3PON 16-3APON | NONE | SOLDER LUG WIRE LEAD | ON-NONE-(OFF) | |

| 116-P | 116-P-OV | SOLDER LUG | ON-NONE-ON |
|--------|-----------|------------|--------------|
| 116-AP | 116-AP-OV | WIRE LEAD | |
| 516-P | 516-P-OV | SOLDER LUG | 2 CIRCUIT |
| 516-AP | 516-AP-OV | WIRE LEAD | 1 ON - 1 OFF |

- CBL BLACK - CRD RED

.562

NICKEL PLATED PLUNGER IS STANDARD. NO CODE REQUIRED.

SERIES

Shading indicates standard configurations.

Overtravel only available with #4 bushing.

1A 125VAC

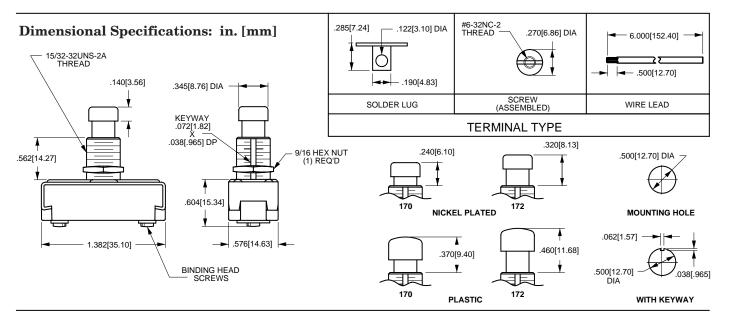
170/172-Series



The 170/172-Series pushbutton switches are single pole, high amperage switches suitable for shallow back panel applications. These switches are momentary action and require an actuation force of 2.5 lbs. The 170/172-Series switches are equipped with a slowmake, slow-break contact mechanism and are rated at 15 amps at 125VAC.

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Brass/Nickel Plate
- Bushing Material: Brass/Nickel Plate
- * Due to ongoing technological advances, consult factory for certification specifics.



177

SERIES1-

SINGLE POLE PUSHBUTTON

10A 250VAC 15A 125VAC

170 ON-(OFF) 172 OFF-(ON)

TERMINATION

- A WIRE LEAD
- B SOLDER LUG

SCREW TERMINAL IS STANDARD. NO CODE REQUIRED.

PLASTIC COLOR CAP

- CBL BLACK
- CGN GREEN
- CRD RED
- CWH WHITE

NICKEL PLATED PLUNGER IS STANDARD. NO CODE REQUIRED.

NOTES

Shading indicates standard configurations.

1 172 switch has approximately .03 overtravel.

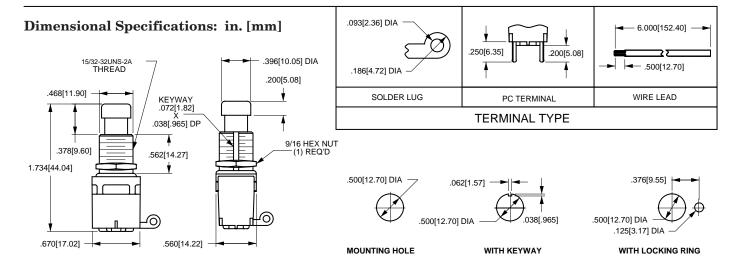
641-Series

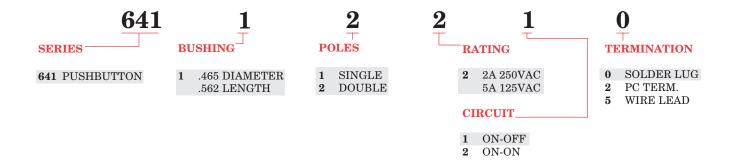


The 641-Series pushbutton switches are single or double pole and AC rated up to 5 amps. These switches offer maintained action with a slider contact mechanism. The typical actuation force required is $3 - 3 \ 1/2 \ lbs$.

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Polyester
- Actuator Material: Brass/Nickel Plate
- Bushing Material: Brass/Nickel Plate
- * Due to ongoing technological advances, consult factory for certification specifics.





NOTES:

Shading indicates standard configurations.



641/110P-Series Pushbutton Switches

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The single pole 110 and 641 series represent the most compact offerings of our pushbutton switch line. Rugged metal construction, self cleaning contacts and stiff actuation force (3-3 1/2 lbs. typical) have made these switches ideal for most "foot pedal" type applications. These alternate action switches fit a standard .500" mounting hole, have termination options including solder lug, wire lead and PC, and are popular within The Music Industry and Audio-visual market segments.

Dielectric Strength

UL/CSA: 1000V - live to dead metal & opposite polarity

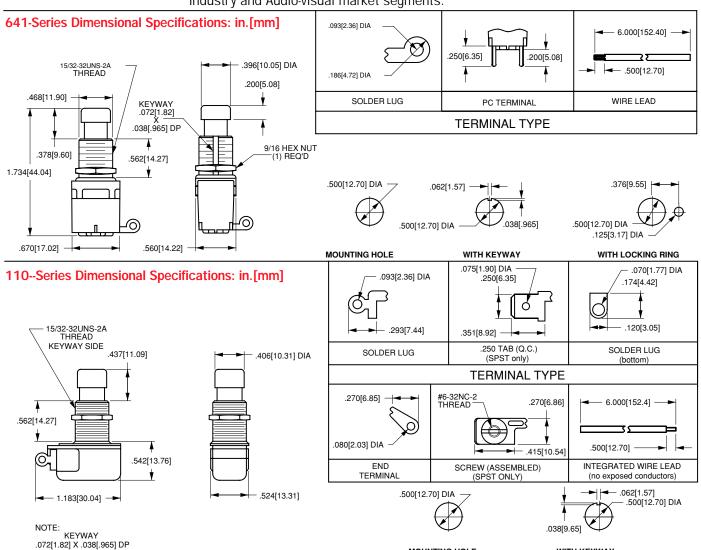
Electrical Life 100,000 cycles

Mechanical Life 25,000 cycles

Operating Temperature

WITH KEYWAY

32°F to 185°F (0°C to +85°C)



64111210

Part Number

1 PART NUMBER: SERIES/ POLES/ RATING / CIRCUITRY/ TERMINATION 641-SERIES

MOUNTING HOLE

single pole double pole 2A 250VAC, 5A 125VAC solder lug PC term wire leads solder lug PC term wire leads 6411210 ON-OFF 6412210 6412212 6411212 6411215 6412215 6411220 6411222 ON-ON 6412220 6412222 6412225 6411225

110-SERIES

single pole 3A 250VAC, 6A 125VAC, AC/DC

solder lug solder lug (btm) screw term wire lead .250 tab ON-OFF 110-P 110-BP 110-SP 111-16-P 110-P-TABS OFF-(ON) 110-PM-OFF 110-PBM-OFF 110-SPM-OFF 111-PM-OFF 110-PM-OFF-TABS ON-(OFF) 110-PM-0N 110-PBM-ON 110-SPM-ON 111-PM-ON 110-PM-ON-TABS

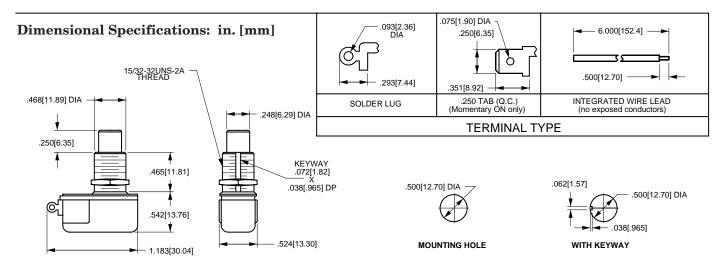
P26-Series

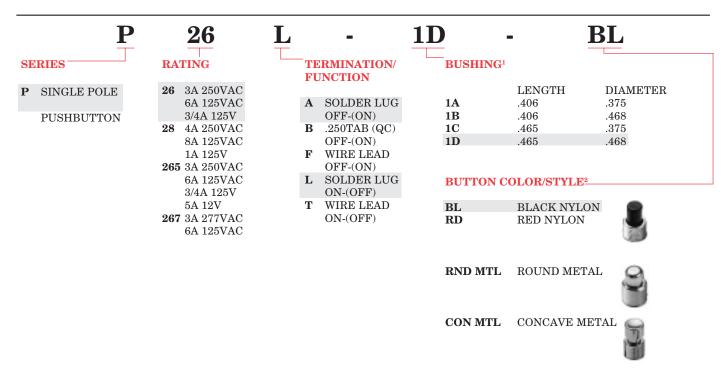


The P26-Series pushbutton switches are single pole, AC rated for 8 amps at 125 VAC and suitable for shallow back panel applications. These switches are momentary action with a medium actuation force (13 oz. typical). The P26-Series switch is equipped with a slowmake, slow-break contact mechanism.

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Nylon or Brass
- Bushing Material: Brass/Nickel Plate
- $^{\ast}\,$ Due to ongoing technological advances, consult factory for certification specifics.





NOTES

Shading indicates standard configurations.

- For panel mounting to assure equal button heights, use bushing 1A or 1B for Momentary ON and 1C or 1D for Momentary OFF. Round metal and concave metal buttons are only available with 1D bushing, which will be .562 in length.

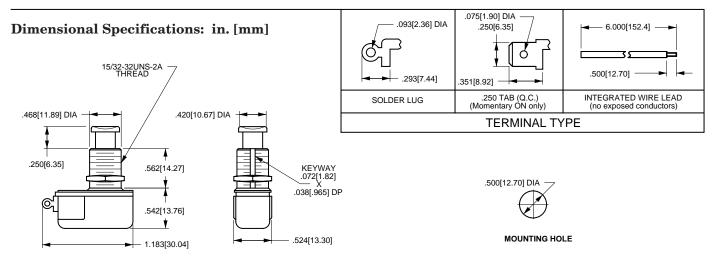
P27-Series



The P27-Series pushbutton switches are single pole, AC/DC rated switches suitable for shallow back panel applications. These switches are momentary action with a medium actuation force (26 oz. typical). The P27-Series switch is equipped with a slowmake, slow-break contact mechanism, rated at 6 amps with a nylon concave pushbutton.

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Nylon
- Bushing Material: Brass/Nickel Plate
- * Due to ongoing technological advances, consult factory for certification specifics.



SERIES SINGLE POLE PUSHBUTTON MOMENTARY

RATING 3A 250VAC 6A 125VAC 3/4A 125V

TERMINATION/ FUNCTION1

- SOLDER LUG OFF-(ON)
- .250TAB (QC) OFF-(ON)
- WIRE LEAD OFF-(ON)
- SOLDER LUG ON-(OFF)
- \mathbf{T} WIRE LEAD ON-(OFF)

 \mathbf{BL}

CONCAVE BUTTON

BL BLACK NYLON RD RED NYLON WH WHITE NYLON

NOTES:

Shading indicates standard configurations.

1 Momentary OFF functions (L and T) available only with 3/4A 125V.

CARLINGSWITCH

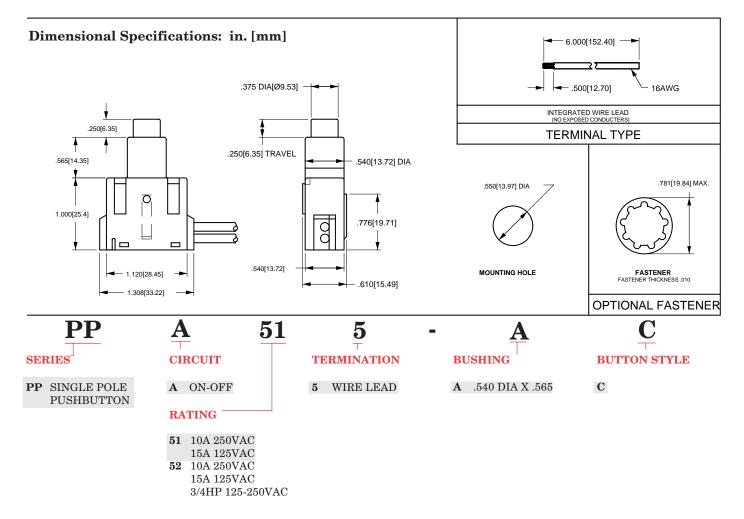
PP-Series



The new PP-Series plastic pushbutton switches are heavy-duty, single pole switches with wire leads. They are alternate action, available in single throw construction, with AC ratings up to 15 amps. Both bushing and bracket are made out of nylon.

Specifications

- Certifications*: UL, CSA
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- $\bullet \ Base \ Material: Polycarbonate \\$
- Plunger Material: Nylon
- Housing Material: Nylon
- * Due to ongoing technological advances, consult factory for certification specifics.



NOTES:

Shading indicates standard configurations.



P/PP-Series Pushbutton Switches

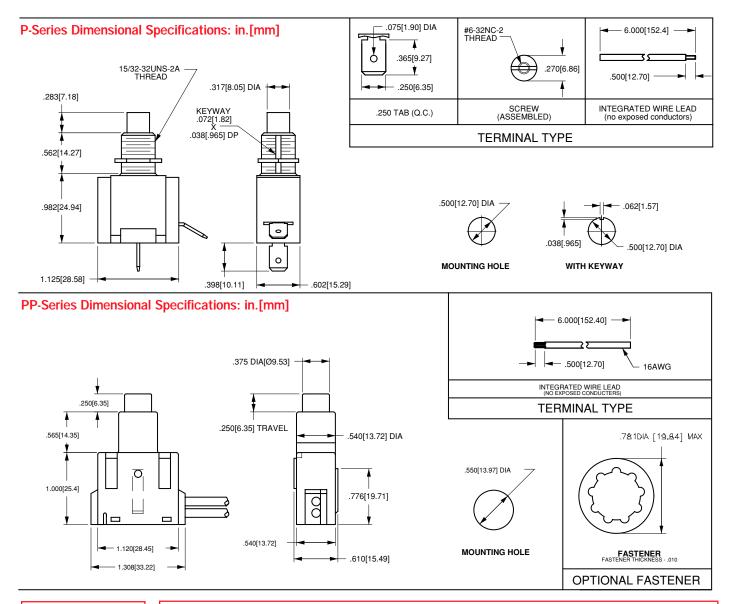


These rugged pushbutton-type switches feature international approvals, ratings to 20A 125VAC and a heavy actuation force (3-5 lbs. typical) which makes this switch ideal for use as a "foot-pedal" switch. These switches have become mainstays for cannister vacuum cleaner applications. A choice of metal (P series) or nylon (PP series) style actuators and bushings further broadens the appeal of these alternate action switches.

Dielectric Strength UL/CSA: 1000V - live to dead metal & opposite polarity **Electrical Life** 100,000 cycles Mechanical Life 25,000 cycles

Operating Temperature

32°F to 185°F (0°C to +85°C)



PA351

Part Number

1 PART NUMBER: SERIES/ACTUATOR/CIRCUITRY/RATING/TERMINATION

.250 tab screw term wire leads

P-SERIES

METAL CASE: 10A 250VAC, 15A 125VAC, 3/4 HP 120-240 VAC¹

PA344 ON-OFF PA341 **PA345** ON-ON PB341 **PB344 PB345**

METAL CASE: 10A 250 VAC, 15A 125 VAC, 10A(6) 250Vu, T85

ON-OFF PA951 PA954 PA955

PP-SERIES PLASTIC CASE: 10A 250VAC, 15A 125VAC, 3/4 HP 125-250 VAC

ON-OFF PPA525-AC

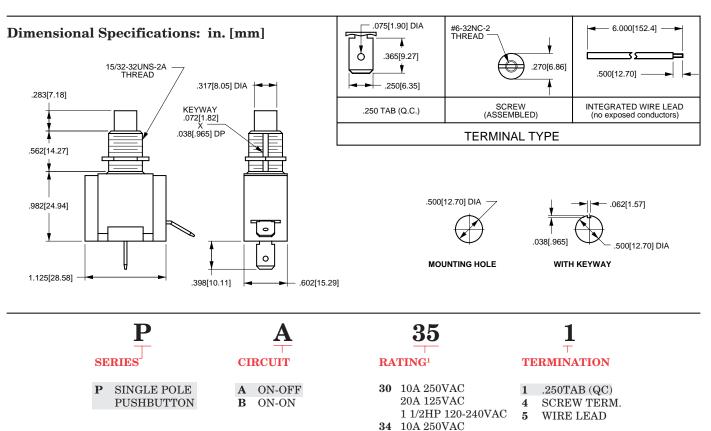
P-Series



The P-Series pushbutton switches are heavy-duty, single pole switches. They are alternate action, available in single and double throw construction, with ratings up to 20 amps. Both plunger and bushing are made of plated brass. Typical actuation force is 3-5 lbs.

Specifications

- Certifications*: UL, CSA, TUV
- Dielectric Strength: 1,000 V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Brass/Nickel Plate
- Bracket Material: Plated Steel
- Bushing Material: Brass/Nickel Plate
- * Due to ongoing technological advances, consult factory for certification specifics.



15A 125VAC 3/4HP 120-240VAC

35 10A 250VAC 15A 125VAC 95 10A 250VAC 15A 125VAC 10A(6) 250Vμ T85

NOTES:

Shading indicates standard configurations.

1 For TUV approval, use rating 95.