

641-Series

PUSHBUTTON SWITCHES

The single, double and triple pole 641-Series represents the most compact offerings of the Carling's pushbutton switch line. These switches are UL approved and meet ENEC spacing requirements. Additionally, the new 3-pole switch affords the versatility to control an extra function or indicator light. 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 with options of solder lug, wire lead and PC terminals.



Resources:

[Download 3D CAD Files](#)

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Product Highlights:

- Available in 1-3 poles
- 3+ lbs. actuation force ideal for Foot pedal applications
- Solder Lug, Wire Lead or PC Terminal options
- Self-cleaning wiping style contacts

Typical Applications:

- Music Equipment
- Test & Measurement Devices
- Audio-Visual Equipment
- Appliances



Electrical

Rating	5A 125VAC, 2A 250VAC
Dielectric Strength	1500V RMS
Insulation Resistance	50 Megohms
Initial Contact Resistance	10 Milli Ohm max @ 4Vdc
Electrical Life	50,000 Cycles
Terminals	Solder Lug, Wire Leads and PC

Mechanical

Mechanical Life	100,000 Cycles
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Environmental

Vibration Sinusoidal	Mil STD 202G, Method 204D, Test Condition A 0.06DA or 10G's 10-500Hz
Shock	MIL-STD 2020G, Method 213B Test Condition K, 30G's
Handling Shock	1 Meter Drop onto Hard Surface, all surfaces and planes
Thermal Shock	MIL-STD 2020G, Method 107G Test Condition A -55 C to 85 C
Moisture Resistance	MIL-STD 2020G, Method 106F 10 25 C to 65 C Cycles 95% RH
Thermal Cycling	25 Cycles -40 C to 85 C
Operating Temperature	32°F to 185°F (0°C to +85°C)

Physical

Function Circuits	Three Pole Single Throw, TPST Three Pole Double Throw, TPDT
Operation	Alternate Action, Push ON, Push OFF
Button Travel	0.19 (4.83mm)
Actuation Force	3 to 5 LB, 1360 to 2268 g
Base	Polyester, PBT Glass Filled
Button	Brass, Nickel Plated
Bushing	Brass, Nickel Plated
Plunger	Brass, Nickel Plated
Top Plate	Stainless Steel
Actuator (Internal)	Nylon 6/6
Pin (Internal) ¹	Nylon 6/6
Driver	Cold Rolled Steel
Springs	Music Wire
Movable Contact	Copper
Terminals	Brass (tin plated)
Mounting	½" Dia. Hole, with and without keyway, or with locking ring

Safety & Regulation

Agency	UL 61058, EN 61058 (3 Pole Version) UL 1054 (1 & 2 Pole Version)
Materials	RoHS, REACH

¹Manufacturer reserves the right to change product specification without prior notice.

64111210

1
Part Number

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

One Pole

2A 250VAC, 5A 125VAC

solder lug	PC term.	wire leads.	
64111210	64111212	64111215	ON-OFF
64111220	64111222	64111225	ON-ON

Two Pole

solder lug	PC term.	wire leads
64112210	64112212	64112215
64112220	64112222	64112225

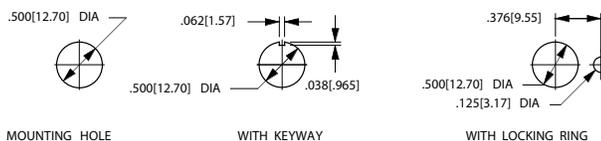
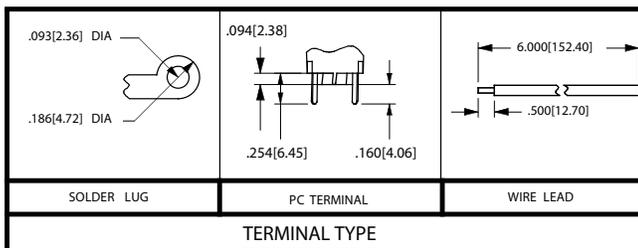
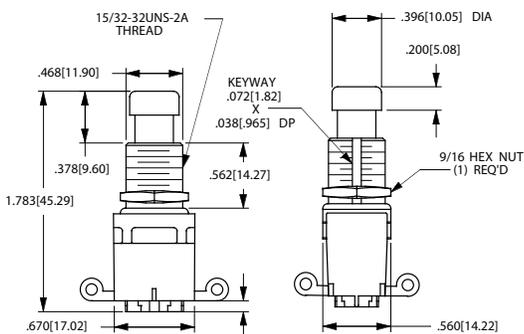
Three Pole

solder lug	PC term.	wire leads
64113210	64113212	64113215
64113220	64113222	64113225

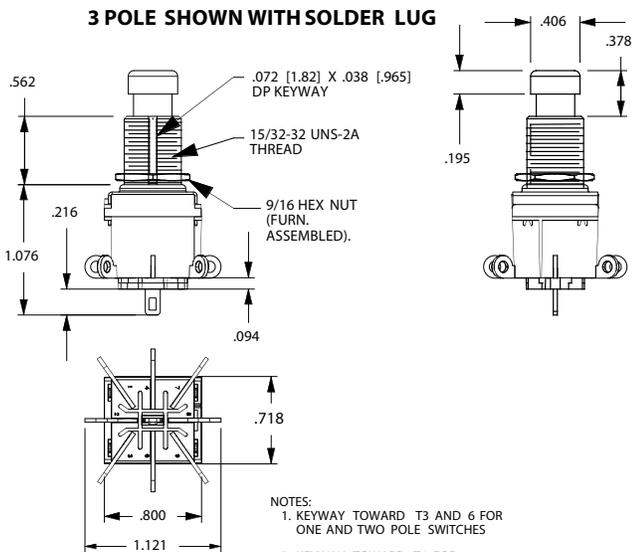
Notes:

¹ For 1 and 2 pole only. 3 Pole switches use brass Pin

1 OR 2 POLE SHOWN WITH SOLDER LUG

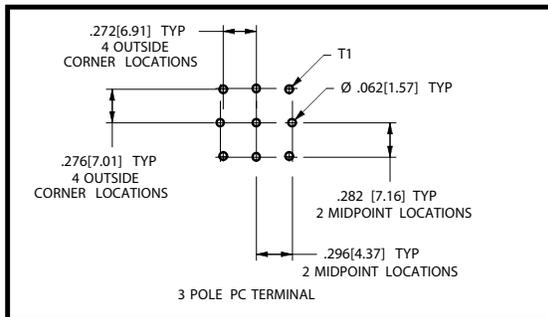
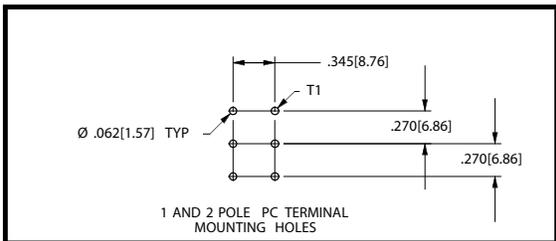
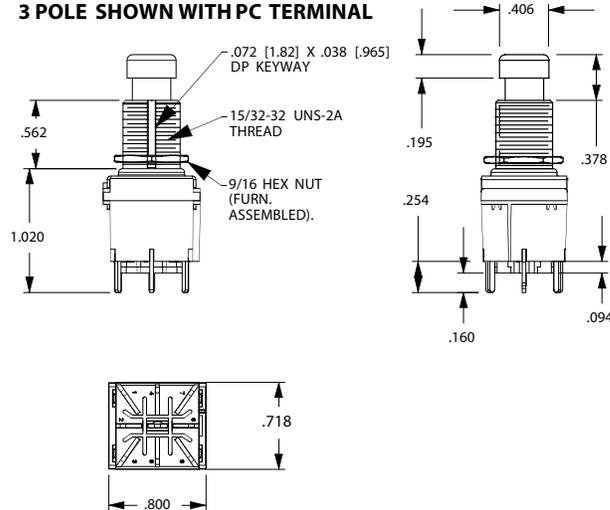


3 POLE SHOWN WITH SOLDER LUG



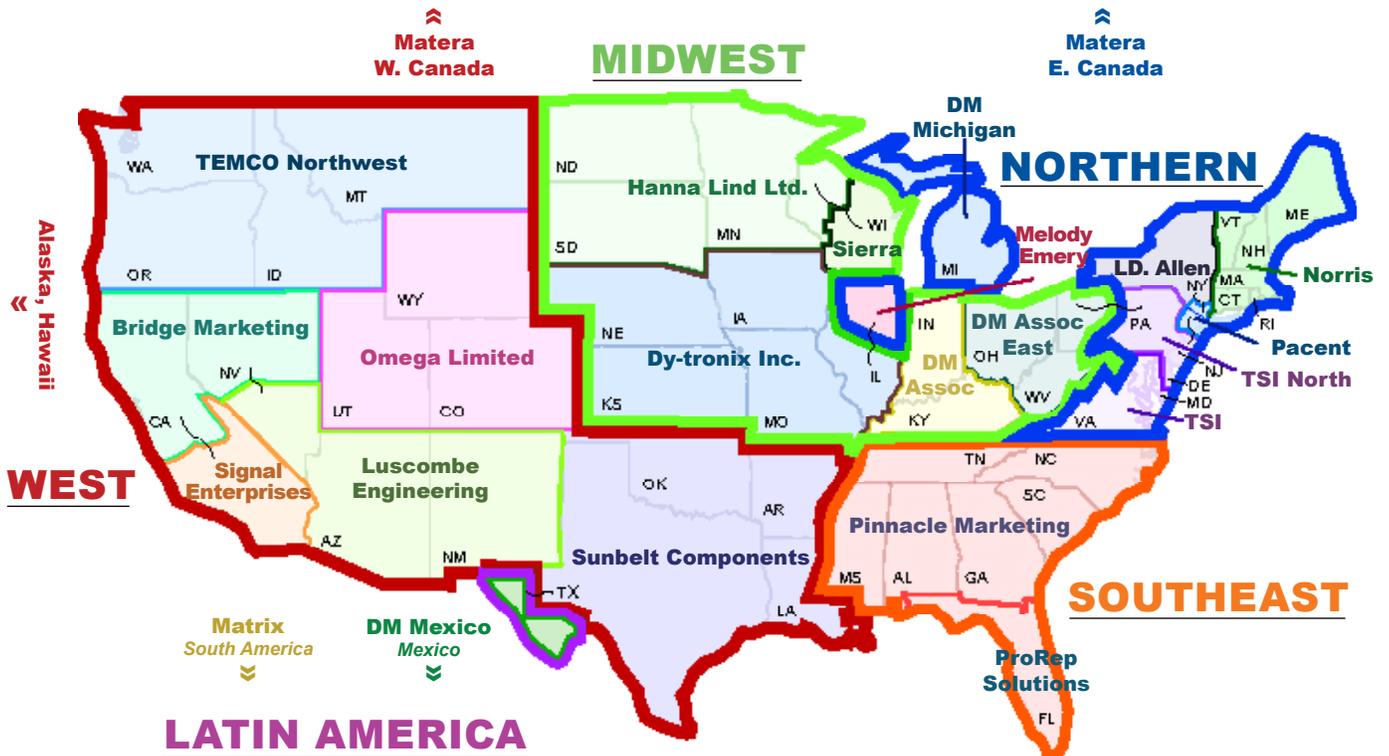
NOTES:
 1. KEYWAY TOWARD T3 AND 6 FOR ONE AND TWO POLE SWITCHES
 2. KEYWAY TOWARD T4 FOR THREE POLE SWITCHES.

3 POLE SHOWN WITH PC TERMINAL



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To view all of Carling's environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications

Worldwide Headquarters

Carling Technologies, Inc.
60 Johnson Avenue, Plainville, CT 06062
Phone: 860.793.9281 **Fax:** 860.793.9231
Email: sales@carlingtech.com

Northern Region Sales Office: nrsm@carlingtech.com
Southeast Region Sales Office: sersm@carlingtech.com
Midwest Region Sales Office: mrrsm@carlingtech.com
West Region Sales Office: wrsm@carlingtech.com
Latin America Sales Office: larsm@carlingtech.com

Asia-Pacific Headquarters

Carling Technologies, Asia-Pacific Ltd.,
Kowloon, Hong Kong
Phone: Int + 852-2737-2277 **Fax:** Int + 852-2736-9332
Email: sales@carlingtech.com.hk

Shenzhen, China: shenzhen@carlingtech.com
Shanghai, China: shanghai@carlingtech.com
Pune, India: india@carlingtech.com
Kaohsiung, Taiwan: taiwan@carlingtech.com
Yokohama, Japan: japan@carlingtech.com

Europe | Middle East | Africa Headquarters

Carling Technologies LTD
4 Airport Business Park, Exeter Airport,
Clyst Honiton, Exeter, Devon, EX5 2UL, UK
Phone: Int + 44 1392.364422 **Fax:** Int + 44 1392.364477
Email: ltd.sales@carlingtech.com

Germany: gmbh@carlingtech.com
France: sas@carlingtech.com



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