



### MATERIALS

**CAP:** Polyamide 6/6.

**PLUNGER:** PAS6: PC / PAS7: Polyamide 6/6.

**RUBBER:** Silicone.

**BUSHING:** Polyamide 6/6.

**CASE:** Diallyl phthalate (DAP)(UL94v-0).

**TERMINAL/CONTACTS:** Gold over silver plated.

### SPECIFICATION

#### MAX. CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD :

400mA 32VAC - 200 mA 50VDC - 125 mA 125VAC.

**INITIAL CONTACT RESISTANCE :** 50mΩmax.

**INSULATION RESISTANCE :** 1GΩmin.at 500VDC.

**DIELECTRIC STRENGTH :** 1,500 VAC rms.

**ELECTRICAL LIFE AT FULL LOAD :** 500,000 cycles.

**OPERATING TEMPERATURE :** -30°C to 85°C.

**PANEL THICKNESS :** 1.5 mm (.059) min. -4 mm (.157) max.

**TOTAL TRAVEL :** 1.5 mm(.059)

**OPERATING FORCE :** 3N~6N

**CONTACT BOUNCE :** 10 ms.

**MECHANICAL LIFE :** 1,000,000 cycles.

**TORQUE :** 0.5 Nm max.applied to nut

**EGREE OF PROTECITON:** IP68

#### MANUAL SOLDERING:

Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

#### WAVE SOLDERING:

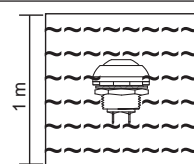
Recommended Soldering Temperature: 260 ± 5°C

※ Ambient temperature of the soldered Surface of PC board.110°C Max.

Duration of Solder Immersion: Max 5 sec.(PCB is 1.6mm in thickness)

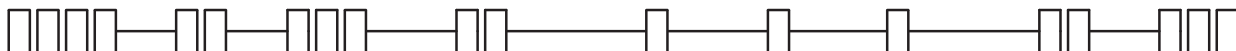
#### IP 68 for the whole series:

Protected against the effects of immersion up to 1 m water(60min)



## HOW TO ORDER

MODEL NO. BUSHING CAP COLOR TERMINATIONS CONTACT MATERIAL SEAL RoHS SOLDERING ADDITIONAL HARDWARE LED COLOR



Model NO.

**PFS6** SP Off-Mom.  
**PFS7** SP On-Mom.  
(Without LED)

Bushing

**B2** Threaded bushing

Cap color

**0** ☐ **M** Flat,Matte  
**A** ☐ **S** Round,Bright(Non-LED)  
**G** ☐ **S** High,Bright(Non-LED)

\* Only flat cap available with LED.

CAP COLOR	ITEM NO.		
	Matte	Bright	Bright
White	01M	A1S	G1S
Black (Std)	02M	A2S	G2S
Red (Std)	03M	A3S	G3S
Yellow	05M	A5S	G5S
Green	06M	A6S	G6S
Blue	07M	A7S	G7S

\* Besides standard color, other colors need to check stocks available.

Contact material

**C** Gold over silver

Seal

**A** Sealed (STD)

RoHS soldering

**S** Rohs & Lead Free

Additional hardware

**05** Additional hardware

LED Color

ITEM NO	COLOR
L00	Without LED
L01	White
L03	Red
L05	Yellow
L06	Green
L07	Blue

Terminations

**M1** 3.50 high,Solder lug(PAS6 only,Non-LED)  
3.40 high,Solder lug(with LED and PAS7 Non-LED)  
**M2** 5.50 high,Solder lug(PAS6 only,Non-LED)  
**M3** 8.20 high,Solder lug(PAS6 only,Non-LED)  
**M4** 3.50 high,PC thru-hole(PAS6 only,Non-LED)

EXAMPLE:









PAS6B2A2SM1CAS05L00(Without LED)

PAS6B20 ☐ MM1CAS05L ☐

└─ CAP color

└─ LED Color

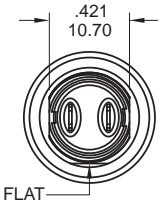
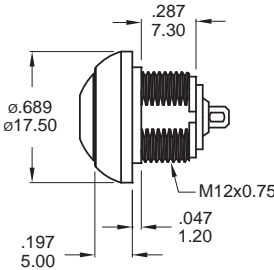
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
		POS.1	POS.2	POS.1	POS.2
					
SP	PFS6	OFF	MOM(ON)	OPEN 	COLSE 
SP	PFS7	ON	MOM(OFF)	CLOSE 	OPEN 

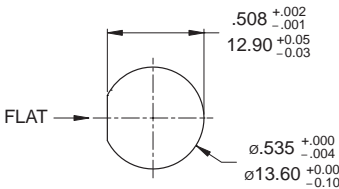
MOM=MOMENTARY

BUSHING TYPE

B2

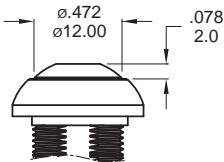


PANEL CUT-OUT  
THICKNESS: 1.5 mm ~ 4.0 mm

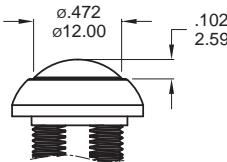


CAP OPTIONS

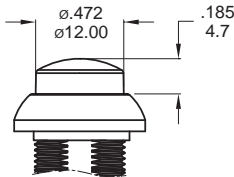
FLAT



ROUND Non-LED

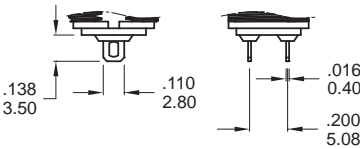


HIGH Non-LED

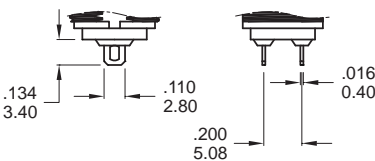


TERMINATION OPTIONS

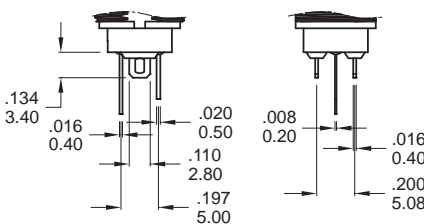
M1 Solder lug



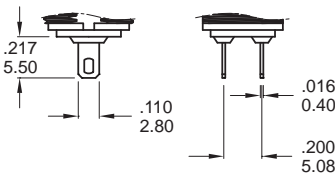
M1 Solder lug (PAS7)



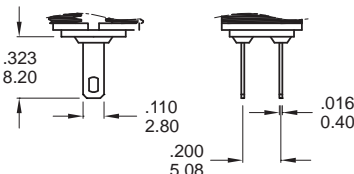
M1 Solder lug (PAS6,With LED)



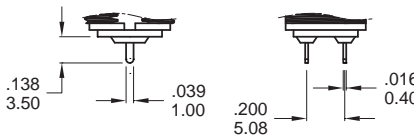
M2 Solder lug



M3 Solder lug

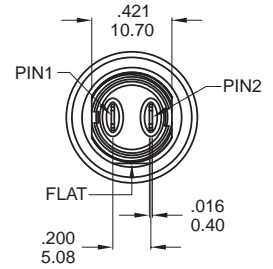
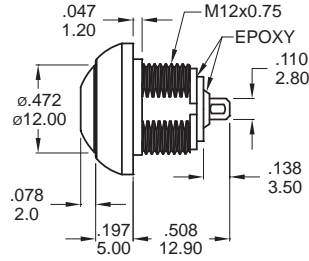
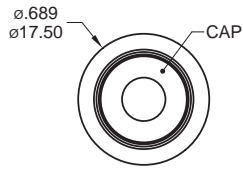


M4 PC Thru-hole



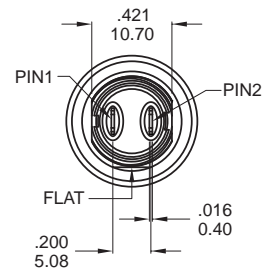
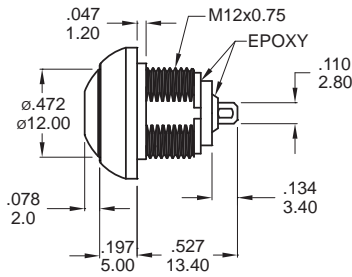
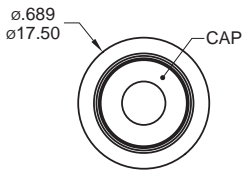
# PF Wire Series

Sub-Miniature Pushbutton Switches With Wire



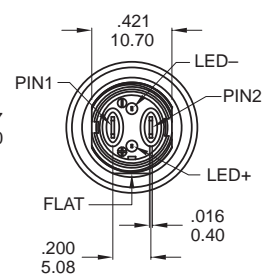
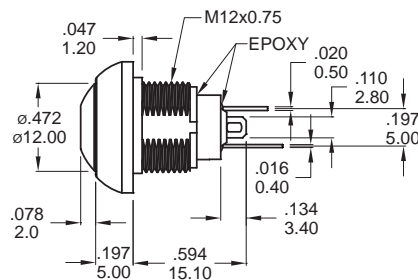
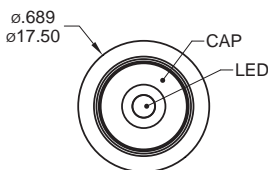
SPST

Part No. Shown : PFS6B207MM1CAS05L00



SPST

Part No. Shown : PFS7B202M1CAS05L00

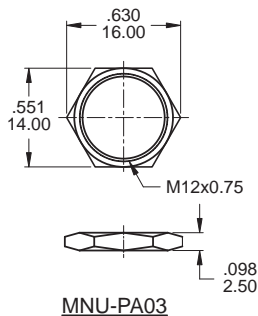


SPST

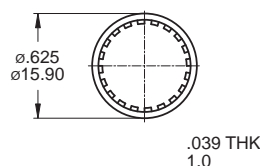
Part No. Shown : PFS6B205M1CAS05L01

## HARDWARE

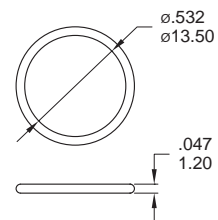
M12 NUT



LOCK WASHER



O-RING



FCP-A253



# PF Wire Series

Sub-Miniature Pushbutton Switches



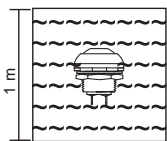
PF Pushbutton Switches



**MATERIALS**  
**CAP:** Polyamide 6/6.  
**PLUNGER:** PAS6:PC / PAS7:Polyamide 6/6.  
**RUBBER:** Silicone.  
**BUSHING:** Polyamide 6/6.  
**CASE:** Diallyl phthalate (DAP)(UL94v-0).  
**TERMINAL/CONTACTS:**Gold over silver plated.  
**Multi-wire lead AWG20,section 0.6mm²,UL approved**

**SPECIFICATION**  
**MAX. CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD :**  
400mA 32VAC - 200 mA 50VDC - 125 mA 125VAC.  
**INITIAL CONTACT RESISTANCE :** 100mΩmax.  
※When the switches with the wire assembly,we only test the electric conduction and will not test the contact resistance on the wire.  
**INSULATION RESISTANCE :** 1GΩmin.at 500VDC.  
**DIELECTRIC STRENGTH :** 1,500 VAC rms.  
**ELECTRICAL LIFE AT FULL LOAD :** 500,000 cycles.  
**OPERATING TEMPERATURE :** -30°C to 85°C.  
**PANEL THICKNESS :** 1.5 mm (.059) min. -4 mm (.157) max.  
**TOTAL TRAVEL :** 1.5 mm(.059)  
**OPERATING FORCE :** 3N~6N  
**CONTACT BOUNCE :** 10 ms.  
**MECHANICAL LIFE :** 1,000,000 cycles.  
**TORQUE :** 0.5 Nm max.applied to nut  
**EGREE OF PROTECITON:** IP68  
**MANUAL SOLDERING:**  
Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.  
**WAVE SOLDERING:**  
Recommended Soldering Temperature: 260 ± 5°C  
※Ambient temperature of thesoldered Surface of PC board.110°C Max.  
Duration of Solder Immersion: Max 5 sec.(PCB is 1.6mm in thickness)

**IP 68 for the whole series:**  
Protected against the effects  
of immersion up to 1 m water(60min)



## HOW TO ORDER

MODEL NO. BUSHING CAP COLOR TERMINATIONS CONTACT MATERIAL SEAL RoHS SOLDERING ADDITIONAL HARDWARE LED COLOR WIRE

Model NO.  
**PFS6** SP Off-Mom.  
**PFS7** SP On-Mom.  
(Without LED)

Bushing  
**B2** Threaded bushing

Cap color  
**0** ☐ M Flat,Matte  
**A** ☐ S Round,Bright(Non-LED)  
**G** ☐ S High,Bright(Non-LED)  
\* Only flat cap available with LED.

Terminations  
**M1** Solder lug(STD)

Contact material  
**C** Gold over silver

Seal  
**A** Sealed (STD)

RoHS soldering  
**S** Rohs & Lead Free

Additional hardware  
**01** Additional hardware are locked  
**05** Additional hardware  
\* See page 142

LED Color

ITEM NO	COLOR
L00	Without LED
L01	White
L03	Red
L05	Yellow
L06	Green
L07	Blue

Wire  
**S001** 500mm leads cylinder(PAS6 only)  
**S002** 90mm leads cylinder,stripping wire(PAS6 only)  
**S003** 100mm leads cylinder(PAS6 only)  
**Y001** 500mm leads heat shrink  
**Y002** 90mm leads heat shrink,stripping wire  
**Y003** 100mm leads heat shrink









CAP COLOR	ITEM NO.		
	Matte	Bright	Bright
White	01M	A1S	G1S
Black (Std)	02M	A2S	G2S
Red (Std)	03M	A3S	G3S
Yellow	05M	A5S	G5S
Green	06M	A6S	G6S
Blue	07M	A7S	G7S

\* Besides standard color, other colors need to check stocks available.

EXAMPLE:  
PAS6B202MM1CAS05L03-S001

└ Wire code

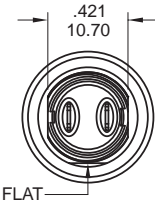
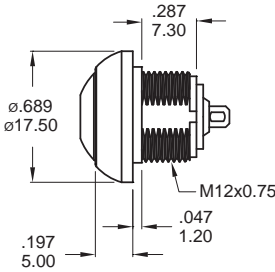
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
		POS.1	POS.2	POS.1	POS.2
					
SP	PFS6	OFF	MOM(ON)	OPEN 	COLSE 
SP	PFS7	ON	MOM(OFF)	CLOSE 	OPEN 

MOM=MOMENTARY

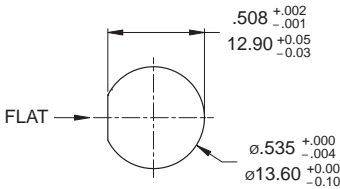
BUSHING

B2



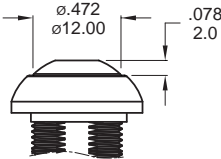
PANEL CUT-OUT

THICKNESS: 1.5 mm ~ 4.0 mm

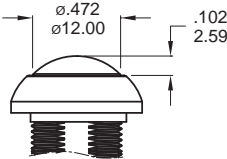


CAP OPTIONS

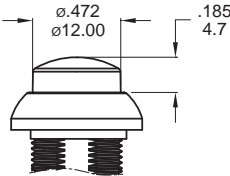
FLAT



ROUND Non-LED

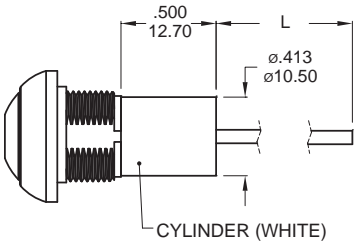


HIGH Non-LED

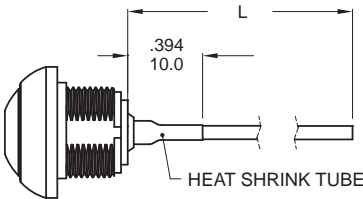


WIRE OPTIONS

SXXX Only for model type PAS6

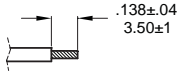


YXXX



WIRE LENGTH

CODE	DIM "L"
S001	500±10(19.7±.394)
S002 *	90±5(3.54±.197)
S003	100±5(3.94±.197)
Y001	500±10(19.7±.394)
Y002 *	90±5(3.54±.197)
Y003	100±5(3.94±.197)



\* Stripping wire for code S002 and Y002.

※ Multi-wire lead AWG20, section 0.6mm², UL approved.

Non-LED

DESCRIPTION	WIRE COLOR
TERMINAL 1	BLACK
TERMINAL 2	BLACK

With LED

DESCRIPTION	WIRE COLOR
TERMINAL 1	BLACK
TERMINAL 2	BLACK
LED+	RED
LED-	GREEN