

Wide Selection of Panel Seal Boots

NKK offers a variety of boots to seal switches to achieve IP65 rating of IEC 60529 at the front panel. These boots are compatible with many of NKK's toggle and pushbutton switches.



PN	AT401 Half Boot	AT402, AT402S Full Boots	AT428 Full Boot	AT4041, AT4042 Full Boots	AT4043 Full Boot	AT4181 Full Boot
Material	AT401A: Nitrile butadiene rubber AT401H: Ethylene propylene rubber AT401S: Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber
Color	Black for AT401A Gray for AT401H Black for AT401S	Black, Red, Yellow, Green, and Gray	Black	Black	Black	Black
Bushing	12mm	12mm	M6 or 1/4-40 Thd	M6 or 1/4-40 Thd	12mm	12mm

Applicable Switch Series for Panel Seal Boots

	AT401	AT402	AT402S	AT428	AT4041, AT4042	AT4043	AT4181
	M12 Bushing	M12 Bushing	M12 Bushing	M6 or 1/4-40 Thd	M6 or 1/4-40 Thd	M12 Bushing	M12 Bushing
M Toggles with 10.5mm bat actuator and 6mm or 1/4-40 bushing				•			
M Toggles with 11.5mm bat actuator and 12mm "B1" bushing			•				
M Toggles with 17.5mm bat actuator and 12mm "B1" bushing	•	•					•
MB2000 Pushbuttons with 6mm or 1/4-40 bushing and "S" plunger					•		
MB2000 Pushbuttons with 12mm "B1" bushing						•	
P Toggles with 17.5mm bat actuator and 12mm bushing	•	•					•
S114; S116; S1A~S7A; S1F~S7F; S21A; S21F Toggles	•	•					•
S1AW~S9AW; S21AW; S25AW~S29AW Toggles	•						•
S31~S39; S31F~S33F; S31T~S33T; S41~S49; S41F~S43F; S41T~S43T Toggles	•	•					•
S301~S309; S301F; S301T~S309T; S331~S339; S331T~S339T; S331F~S335F; S421~S429; S421T~S429T Toggles	•	•					•
S821~S823; S831~S833 Toggles	•						
SB61A; SB61B; SB221NC; SB221NO Pushbuttons						•	
WB Pushbuttons all models						•	
WT Toggles all models	•						•

IP Code for Degrees of Protection for Enclosures

The IP code is part of the IEC 60529 (EN 60529) standard specifying the degree of protection by enclosures for low-voltage switch gear; specifically, concerned with protection of persons against contact with live or moving parts and the prevention of ingress of solid foreign bodies and liquid. The IP code is a specification used internationally and is similar to the NEMA standard.

- IP60** Dust tight but not protected against water
- IP64** Dust tight and protected against splashing water from any direction
- IP65** Dust tight and protected against water jets from any direction
- IP67** Dust tight and protected against effects of temporary immersion

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