

Contents

Part Number	Page
AT001s	Y4
AT100s	Y6
AT200s	Y7
AT400s	Y9
AT500s	Y14
AT600s	Y17
AT700s	Y19
AT2100s	Y19
AT3000s	Y20
AT4000s	Y23
AT4100s	Y27
AT9000s	Y34

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories Y

Supplement

Color Codes

A Black	F Green
B White	G Blue
C Red	H Gray
D Amber	J Clear
E Yellow	S Metallic Silver

Hardware Threading

Many hardware pieces are available in both metric and inch threading, and in such cases **M** (metric) and **H** (inch) are noted in the descriptions. The customer must select threading by placing an M or H after the basic AT part number. If the hardware is available only in metric or inch, no code is used in the description; threading is designated on the drawing.

Accessories & Hardware

AT010s~
AT090s

* Available in
Americas only

* **AT016**
16mm Hex Mounting Nut
Steel
Series: CKM



* **AT019**
19mm Hex Mounting Nut
Brass with nickel plating
Series: CKL



* **AT050**
Knurled Nut
Brass with nickel plating
Series: SB40



* **AT055**
Crossover Guard
Polypropylene
Series: KB



AT056
Dress Cap Nut
Brass with chrome plating
Series: M P S



AT056T
Threaded Through Dress Nut
Brass with chrome plating
Series: M P S



* **AT057**
Mounting Nut
Brass with zinc plating,
chromate finish
Series: KB



* **AT062**
.250" Wide Rocker
Polyamide
Colors: A B C
Series: A



* **AT063**
Gasket
Nitrile butadiene rubber
Color: A
Series: B Threaded Bushing



AT064-1
Panel Frame for Rocker & Paddle .365" Wide
Polyamide
Color: A
Series: M



AT064-2
Panel Frame for Rocker & Paddle .365" Wide
Polyamide
Color: A
Series: M

AT064-1 accommodates
panel thickness
1.2 ~ 2.3mm
(.047 ~ .090")



AT064-2 accommodates
panel thickness
1.57 ~ 3.18mm
(.062 ~ .125")



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

AT065-1

Panel Frame for Rocker & Paddle .450" Wide

Polyamide
Color: A
Series: M



AT065-1 accommodates
panel thickness
1.2 ~ 2.3mm
(.047 ~ .090")



AT065-2

Panel Frame for Rocker & Paddle .450" Wide

Polyamide
Color: A
Series: M

* AT066

.300" Wide Rocker

Polyamide
Color: A B C
Series: A



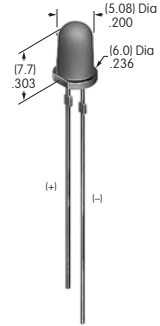
AT065-2 accommodates
panel thickness
1.57 ~ 3.18mm
(.062 ~ .125")



* AT070

LED for AT208 Bezel

Colors: C F
Series: EB M MB24



* AT073

Mounting Nut

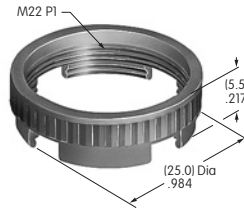
Brass with nickel plating
Series: HB



* AT074

Mounting Nut for LB Panel Seal

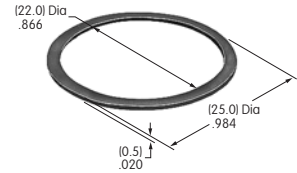
Brass with chrome
Series: LB



* AT075

O-ring for LB Panel Seal

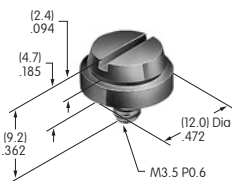
Nitrile butadiene rubber
Series: LB



AT080

Screw Adaptor for AT452 & AT454

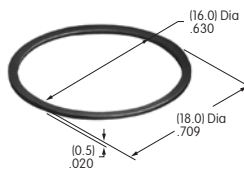
Brass
Series: MB20 SCB



AT089

O-ring for YB Panel Seal

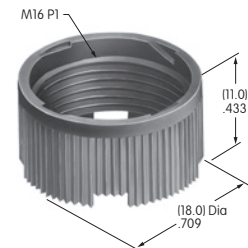
Nitrile butadiene rubber
Series: YB



* AT092

Knurled Mounting Nut

Glass fiber reinforced PBT
Series: YB YB2



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

* AT094

PC Adaptor

Holder: Polypropylene
Spring: Spring steel with nickel plating
PC Pins: Brass with nickel plating
Series: DSA01



* AT097 ← NEW

JST Connector for OLED Rocker

JST Part No. BM12B-SURS
PCB Mount
Series: SmartSwitch



AT100s

AT105

Cap Removal Tool

Stainless steel
Series: HB KB LB UB YB



AT106

Socket Wrench

Aluminum with black alumite finish
Series: YB YB2



AT107

Lamp Extractor

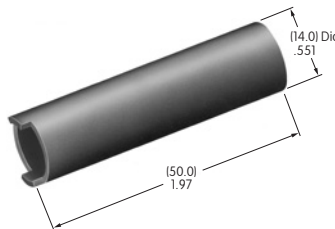
Polyvinyl chloride
Series: KB LW MLW YB



AT108

Socket Wrench

Aluminum with black alumite finish
Series: KB



AT109

Cap Extractor

Stainless steel
Series: HB KB LB UB YB



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

AT110

Socket Wrench
Brass
Series: HB



AT111

Lamping Tool
Stainless steel
Series: HB KB YB



AT112

Socket Wrench
Brass with nickel plating
Series: LB



AT200s

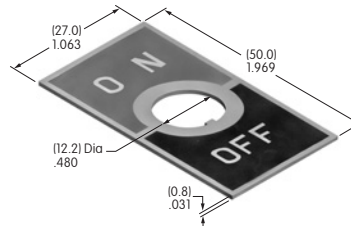
AT201

ON-OFF Plate for 12mm Threaded Bushing
Brass with nickel plating
Series: M P S



AT202

ON-OFF Plate for 12mm Threaded Bushing
Aluminum
Colors: Red & black enamel
Series: M P S



AT204

Bezel
Polycarbonate
Colors: A B C D E F G H
Series: MLW



AT206

Bezel
Polycarbonate
Colors: A B C D E F G H
Series: LW



AT207

Bezel
Polycarbonate
Colors: A B C E F G H
Series: EB MB24 MB25



AT208

Bezel for AT070 LED
Polycarbonate
Color: A
Series: EB M MB24 MB25



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

Toggle

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT209

ON-OFF Plate for 6mm Threaded Bushing
Brass with nickel plating
Series: M P



AT210

ON-OFF Plate for 6mm Threaded Bushing
Aluminum
Colors: Red & black ink
Series: M P



AT211

ON-OFF Plate for 6mm Threaded Bushing
Aluminum
Colors: Red & black enamel
Series: M P



AT212

Bezel for 2 AT617 LEDs
Polycarbonate
Color: A
Series: EB M MB24 MB25



AT213

Bezel for 2 AT618 LEDs
Polycarbonate
Color: A
Series: EB M MB24 MB25



AT214

ON-OFF Plate for 12mm Threaded Bushing
Aluminum
Colors: Red & black ink
Series: M P S



AT215

ON-OFF Plate for 12mm Threaded Bushing
Aluminum
Colors: Red & black enamel
Series: M P S



AT217

Barrier
Polyamide
Colors: A B H
Series: JWM



AT218

Barrier
Polyamide
Colors: A B H
Series: JWL



AT219

Barrier
Polyamide
Colors: A
Series: JWS



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

AT400s

AT401A/H/S
Splashproof Boot Assembly
 Hex Nut Material & Finish:
 Nickel plated brass
 O-ring Material:
 Nitrile butadiene rubber
 Series: M P S WT



AT401A for Oil Resistance
 Boot Material: Black nitrile butadiene rubber

AT401H for Dust & Ozone Resistance
 Boot Material: Gray ethylene propylene rubber

AT401S for Flexibility, Resilience, and Tensile Strength over Wide Temperature Range
 Boot Material: Black silicone rubber

For 12mm Bushings in M, P, S and WT Toggles

Boot Assembly Instructions

1. After mounting boot AT401 over toggle, press into place.
2. Be sure boot is pressed evenly and firmly down at or below height (A) as shown.



Switch Installation Instructions

1. Install switch bushing into mounting hole of panel from the back and adjust bushing to protrude 3.5 ~ 5.5mm (.138 ~ .217") above panel.
2. Install boot over bushing and tighten with hex nut.

Non-Splashproof Switches

M, P or S Toggles with 12mm Bushings



Use boot, nut and o-ring as shown. Use lockwasher and hexagon nut (from standard switch hardware) behind panel.

Splashproof Switches

S1AW ~ S29AW S Toggles

WT Toggles or M Toggle with B3 Bushing



Use boot, nut and o-ring as shown. Use o-ring only (from standard switch hardware) behind panel.



AT401P
O-ring
 Nitrile butadiene rubber
 Color: A
 Series: M MB20 TL WB WT



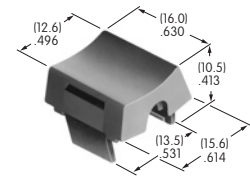
AT402
Splashproof Boot
 Silicon rubber for A C E F
 Ethylene propylene rubber for H
 Colors: A C E F H
 Series: M P S



AT402S
Splashproof Boot
 Silicon rubber
 Color: A
 Series: M



AT405
Solid Color Rocker
 Polycarbonate
 Colors: A B C D E F G
 Series: MLW



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT406

Bat Lever Cap

Polyvinyl chloride

Colors: A B C E F G

Series: M P S



AT407

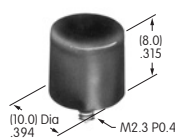
.394" Diameter

Screw-on Cap

PBT

Colors: A B C E F G H

Series: MB20



AT412

.748" Diameter

Screw-on Cap

Polystyrene

Colors: A B C F

Series: MB20 SCB WB



AT413

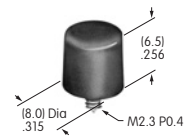
.315" Diameter

Screw-on Cap

PBT

Colors: A B C E F G H

Series: MB20



AT414

.520" Diameter

Screw-on Cap

PBT

Colors: A B C D E F G H

Series: MB20 SB SCB WB



AT415

Bat Lever Cap

Polyethylene

Colors: A B C E F G

Series: D2 M



AT416

Lamp Cover for AT602

Silicon rubber

Colors: C D F

Series: LW



AT420

Rocker

Polycarbonate

Colors: B J

Series: LW



AT421

Filter for AT420

Polycarbonate

Colors: B C D E F G

Series: LW



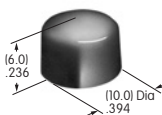
AT422

Slip-on Cap

Polyethylene

Colors: A B C E F G

Series: SB40



AT426

Solid Color Paddle

Polycarbonate

Colors: A B C D E F G

Series: MLW



AT427

Cap for Locking Lever (code L)

Brass with bright nickel plating

(supplied with switch)

Anodized aluminum

Colors: A C G

Series: D2 M



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

AT428 (M-metric H-inch)
Splashproof Boot
 Silicone rubber
 Color: A
 Series: D2 M P



AT429
Indicator Cap
 Polycarbonate
 Colors: B C D E F G
 Series: P01



AT431
Large Rotary Knob
 Phenolic resin
 Color: A
 Series: HS PS TS



AT432
Small Rotary Knob
 Phenolic resin
 Color: A
 Series: HS PS TS



AT433
Knob for Miniature Rotaries
 Polyacetal
 Color: A
 Series: FR01 MR



AT434
Bat Lever Cap
 Polyvinyl chloride
 Colors: A B C E F G
 Series: M



AT435
Screw-on Cap
 Brass with chrome plating
 Series: SB265



AT438
Design Rocker
 Polycarbonate
 Colors: B C D F G
 Series: MLW



AT442
.394" Diameter Snap-on Cap
 Polycarbonate
 Colors: A B C E F G H
 Series: DB EB M2B MB20 MB25



AT443
.315" Diameter Snap-on Cap
 Polycarbonate
 Colors: A B C E F G H
 Series: DB EB M2B MB20 MB25



AT444
Bat Lever Conical Cap
 Polyethylene
 Colors: A B C E F G
 Series: D2 M M2T



AT445
Cap for Color Tipped Cone Toggle
 Polycarbonate
 Colors: A B C E F G
 Series: M



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT452

Rectangular Insert

Polycarbonate

Colors: A B C F G H

Series: MB20 SCB

Used with Screw Adaptor AT080



AT453

Rectangular Shroud

Polycarbonate

Colors: A B H

Series: MB20 SCB



AT454

Round Insert

Polycarbonate

Colors: A B C F G H

Series: MB20 SCB

Used with Screw Adaptor AT080



AT455

Round Shroud

Polycarbonate

Colors: A B H

Series: MB20 SCB



AT460

Cap for Color Capped

Cone Toggle

Polyethylene

Colors: A B C E F G

Series: M



AT465

.453" Square Cap

Polycarbonate

Colors: A B C E F G H

Series: EB MB24 MB25



AT466

.453" False Illuminated Rocker

Polycarbonate

Cap Color: A

Window Color: B/C

Series: M



AT467

Short Paddle

Polyamide

Colors: A B C E F G H

Series: A



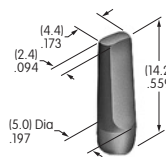
AT468

Long Paddle

Polyamide

Colors: A B C E F G H

Series: A



AT469

.260" Wide Rocker

Polyamide

Colors: A B C E F G H

Series: A



AT475

.201" Diameter Cap

Polyamide

Colors: A B C

Series: AB BB FB M2B MB24



AT476

Square Solid Colored Cap

Polycarbonate

Colors: BJ CJ EJ FJ GJ

Series: LB



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

AT477

Square Colored Insert Cap
Polycarbonate
Colors: JB JC JE JF JG
Series: LB



AT480

Square Spot Illuminated Cap
Polycarbonate
Cap Colors: A B C F
LED Colors: C D F CF
Series: LB



AT484

Square Nonilluminated Cap
Polycarbonate
Colors: A B C E F G H
Series: LB



AT485

Square Solid Colored Cap
Polycarbonate
Colors: A BB CB CC EB
FB FF GB GG
Series: KB



AT486

Round Solid Colored Cap
Polycarbonate
Colors: A BB CB CC EB
FB FF GB GG
Series: KB



AT487

Square Colored Insert Cap
Polycarbonate
Colors: JB JC JE JF JG
Series: KB



AT488

Round Colored Insert Cap
Polycarbonate
Colors: JB JC JE JF JG
Series: KB



AT494

Protective Guard
Cover: Polycarbonate
Base: Polyamide
Series: KB



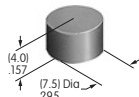
AT495

Dust Cover
Lid: Polyvinyl chloride
Base: Polyamide
Series: KB



AT496

.295" Diameter Cap
Polyamide
Colors: A B C
Series: AB BB FB M2B MB24



AT497

End Barrier
Polyamide
Color: A
Series: LB



AT498

Center Barrier
Polyamide
Color: A
Series: LB



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

Toggle

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

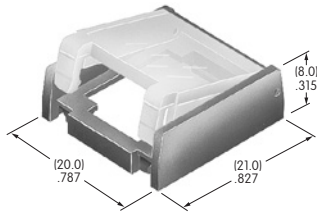
Touch

Indicators

Accessories

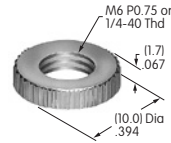
Supplement

AT499
Protective Guard for Square
Cover: Polycarbonate
Base: Polyamide
Series: LB



AT500s

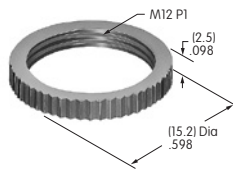
AT501 (M-metric H-inch)
Knurled Face Nut
Brass with chrome plating
Series: D2 DB EB M MB20
MB24 P



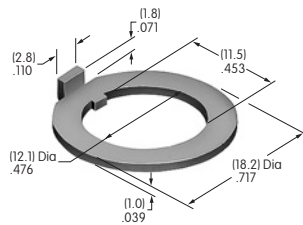
AT503 (M-metric H-inch)
Hex Face Nut
Brass with chrome plating
Series: M P S SB WB WT



AT504M
Knurled Face Nut
Brass with chrome plating
Series: M P S SB SCB
WB WT



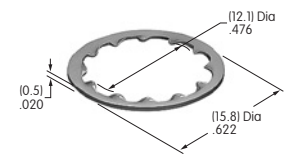
AT506M
Locking Ring
Steel with zinc/chromate
Series: M MB20 P S SB



AT507 (M-metric H-inch)
Locking Ring
Steel with zinc/chromate
Series: D2 DB EB M MB20
MB24 MB25 MR P



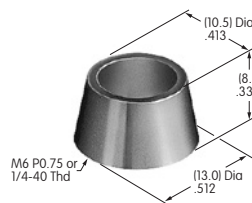
AT508
Internal Tooth Lockwasher
Steel with zinc/chromate
Series: M P S SB SCB
SK TL WB WT



AT509
Internal Tooth Lockwasher
Steel with zinc/chromate
Series: D2 DB EB FR01 M
MB25 MR P S SB



AT512 (M-metric H-inch)
Conical Nut
Brass with chrome plating
Series: EB MB20



AT512C (M-metric H-inch)
Conical Nut
Brass with chrome plating
Series: EB MB20



AT513H
Hex Nut
Brass with nickel plating
Series: M MB20 MB24



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

AT513M

Hex Nut

Brass with nickel plating
Series: B D2 DB EB FR01 M
MB20 MB25 MR P



AT515 (M-metric H-inch)

Locking Ring for D Flat Bushing

Steel with zinc/chromate
Series: FR01 M MB24



AT516

O-ring

Nitrile butadiene rubber
Series: M MB20



AT518

Locking Ring

Steel with zinc/chromate
Series: HS PS TS



AT520

Split Lockwasher

Steel with zinc/chromate
Series: HS PS TS



AT526

Hex Mounting Nut

Steel with nickel plating
Series: HS PS TS



AT527 (M-metric H-inch)

Hex Mounting Nut

Steel with nickel plating
Series: M P S SB SCB
SK TL



AT527MA

Black Hex Face Nut

Steel with black chrome plating
Series: TL



AT529

Mounter for Square Cap

Stainless steel frame
GFR PBT spacer
Series: EB



AT530

Panel Mount for Single Pole

Polyamide & polyacetel
Colors: A B C E F G H
Series: A AB



AT531

Panel Mount for Single or Double Pole

Polyamide & polyacetel
Colors: A B C E F G H
Series: A AB



AT532 (M-metric H-inch)

Dress Cap Nut

Brass with nickel plating
Series: EB M MB20 MB24 P



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT532T (M-metric H-inch)
Threaded Through Dress Nut
Brass with nickel plating
Series: EB M MB20 MB24 P



AT533T (M-metric H-inch)
Threaded Through Dress Nut
Brass with nickel plating
Series: EB M MB20 MB24 P



AT535
Rubber Ring for MR Panel Seal
Nitrile butadiene rubber
Series: MRB MRK



AT536
Hex Nut
Brass with nickel plating
Series: FB



AT537
O-ring
Nitrile butadiene rubber
Series: S



AT541
O-ring for Panel Seal with AT4115
Nitrile butadiene rubber
Series: YB



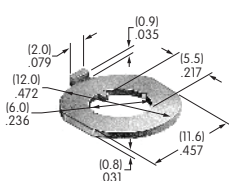
AT542
Coupler for LCD 36 x 24 Pushbutton
PBT
Series: SmartSwitch



AT543
Support Bracket
Steel with tin plating
Series: MRK



AT545
Locking Ring
Steel with zinc/chromate
Series: MRA MRB MRK



AT546
Mounting Bracket for Block Mounting
Phosphor bronze with tin plating
Series: GB2



AT547
Mounter for AT4140
Polyamide
Color: A
Series: JB



AT548
Panel Mount Housing for LCD 36 x 24 Pushbutton (not for Compact SmartSwitch)
Polyamide
Color: A
Series: SmartSwitch



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

AT600s

AT602

Incandescent Lamp
Volts: 6 12 18 24 28
Series: LW MLW
T-1 1/2 Pilot Slide Base



AT602N

Neon Lamp
Volts: 110
Series: LW MLW
T-1 1/2 Pilot Slide Base



AT607

Incandescent Lamp
Volts: 5 12
Series: LB
T-1 Bi-pin



AT607N

Neon Lamp
Volts: 110
Series: LB
T-1 Bi-pin



AT611

Incandescent Lamp
Volts: 5 12
Series: KB YB
T-1 Bi-pin



AT615

Neon Lamp
Volts: 110
Series: KB
T-1 Bi-pin



AT617

Single Element LED
Colors: C E F
Used for AT212 Bezel



AT618

Single Element LED
Colors: C E F
Used for AT213 Bezel



AT621

6-element Bicolor LED
Without Resistor; Volts: 2
With Resistor; Volts: 5 12 24
Colors: CF
Series: YB
T-1 1/2 Bi-pin



AT622

Single Element LED
Colors: C E F
Series: MLW
T-1 3/4 Pilot Slide Base



AT624

Single Element LED
Color: G
Series: HB
T-1 Bi-pin



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

Toggle

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

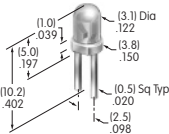
Accessories

Supplement

AT625

Super Bright Single Element LED

Color: G
Series: KB LB YB YB2
T-1 Bi-pin



AT627

Bright 4-Element LED

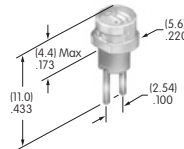
With Resistor; Volts: 5 12 24
Colors: C D F
Series: LB
T-1 Bi-pin



AT628

Bright Double Element LED

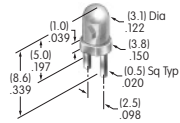
Colors: C D F
Series: YB YB2
T-1 Bi-pin



AT629

Single Element LED

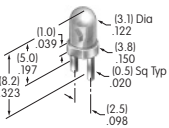
Color: B
Series: HB
T-1 Bi-pin



AT630

Single Element LED

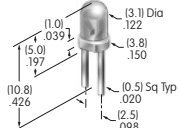
Color: F
Series: HB
T-1 Bi-pin



AT631

Super Bright Single Element LED

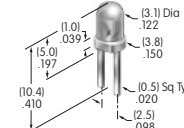
Color: B
Series: KB LB YB YB2
T-1 Bi-pin



AT632

Super Bright Single Element LED

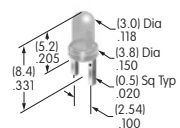
Color: F
Series: KB LB YB YB2
T-1 Bi-pin



AT633

Single Element LED

Colors: C D F
Series: HB
T-1 Bi-pin



AT634

Bright 2- or 4-Element LED

With Resistor; Volts: 5 12 24
Colors: C D F
Series: KB YB YB2
T-1 1/4 Bi-pin



AT635

Bright Single Element LED

Colors: C D F
Series: KB LB
T-1 1/2 Bi-pin

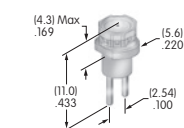


AT636

← **NEW**

Bright Single Element LED

With Resistor; Volts: 5 12 24
Color: F
Series: YB2
T-1 1/4 Bi-pin



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

AT700s

AT701

**Single Pole
Straight PC Adaptor**
Glass fiber
reinforced polyamide
Series: KB



AT702

**Double Pole
Straight PC Adaptor**
Glass fiber
reinforced polyamide
Series: KB



AT711

**Single Pole
Straight PC Adaptor**
Glass fiber
reinforced polyamide
Series: LB



AT712

**Double Pole
Straight PC Adaptor**
Glass fiber reinforced polyamide
Series: LB



AT713 ← NEW

Receptacle Connector
Connects to RS232C
Compatible with
FTCS04B & FTCS05B (5-wire) or
FTCS04A & FTCS04A2 (4 wire)
Length: 19.7" (500.0mm)
Series: FT



AT714 ← NEW

Receptacle Connector
Connects to Power Source
of Control Boards
FTCS04B & FTCS05B (5-wire)
Length: 19.7" (500.0mm)
Series: FT



AT715 ← NEW

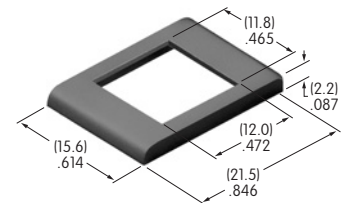
Connector Cable
Cable for OLED Rocker
Length: 19.7" (500.0mm)
Series: SmartSwitch



AT2100s

AT2107

Bezel
Polyamide
Colors: A B E F G H
Series: M M2100



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

AT3000s

AT3001

Square Solid Cap

Polycarbonate

Colors: BB CB EB FB GB

Series: YB



AT3002

Round Solid Cap

Polycarbonate

Colors: BB CB EB FB GB

Series: YB



AT3003

Rectangular Solid Cap

Polycarbonate

Colors: BB CB EB FB GB

Series: YB



AT3004

Square Cap for Bright LED & Bicolor

Polycarbonate

Colors: JB JC JD JF

Series: YB



AT3005

Round Cap for Bright LED & Bicolor

Polycarbonate

Colors: JB JC JD JF

Series: YB



AT3006

Rectangular Cap for Bright LED & Bicolor

Polycarbonate

Colors: JB JC JD JF

Series: YB



AT3010

Square Spot Illuminated Cap with Built-in LED

Without Resistor; Volts: 2

With Resistor; Volts: 5 12 24

Polycarbonate

Cap Colors: JA JB JC JE JF

LED Colors: C D F CF

Series: YB



AT3011

Round Spot Illuminated Cap with Built-in LED

Without Resistor; Volts: 2

With Resistor; Volts: 5 12 24

Polycarbonate

Cap Colors: JA JB JC JE JF

LED Colors: C D F CF

Series: YB



AT3012

Rectangular Spot Illuminated Cap with Built-in LED

Without Resistor; Volts: 2

With Resistor; Volts: 5 12 24

Polycarbonate

Cap Colors: JA JB JC JE JF

LED Colors: C D F CF

Series: YB



AT3014

Square Cap for Super Bright LED

Polycarbonate

Colors: JB

Series: YB



AT3015

Round Cap for Super Bright LED

Polycarbonate

Colors: JB

Series: YB



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

AT3016
**Rectangular Cap
 for Super Bright LED**
 Polycarbonate
 Color: JB
 Series: YB



AT3017 ← **NEW**
Round Cap for Bright LED
 Polycarbonate
 Colors: JB CB EB FB
 Series: YB2



AT3018 ← **NEW**
Round Cap for Super Bright LED
 Polycarbonate
 Color: JB
 Series: YB2



AT3019 ← **NEW**
Round Solid Cap
 Polycarbonate
 Color: S (Metallic Silver)
 Series: YB2



AT3020 ← **NEW**
**Round Cap for Bright
 or Super Bright LED
 with Clear Illumination Ring**
 Lens: Polycarbonate
 Insert: Polyester
 Color: JS (Metallic Silver
 with Clear Ring)
 Series: YB2



AT3021
Flat Cap for Barrier Flange
 Polyphenylene oxide
 Colors: A B C H
 Series: JP



AT3022 ← **NEW**
**Square Cap for Single
 or Bicolor LED**
 Polycarbonate Resin
 Colors: JB JC JD JF
 Series: NP01



AT3023 ← **NEW**
**Square Cap for Bicolor LED
 with Alternating Legends**
 Polycarbonate Resin
 Color: J
 Series: NP01



AT3024 ← **NEW**
Square Solid Cap
 Polycarbonate Resin
 Colors: A B C H
 Series: NP01



AT3069
**Sculptured Cap with
 Alternating Legend
 for Illuminated**
 Polycarbonate
 Color: J
 Series: UB2



AT3070
**Flat Cap with
 Alternating Legend
 for Illuminated**
 Polycarbonate
 Color: J
 Series: UB2



AT3073
**Sculptured Cap
 for Nonilluminated**
 Polycarbonate
 Colors: JA JB JC JD JF
 Series: UB2



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

Toggle

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT3074
Sculptured Cap for Illuminated
Polycarbonate
Colors: JB JC JD JF
Series: UB2



AT3075
Beveled Cap for Illuminated
Polycarbonate
Colors: B C D F
Series: UB2



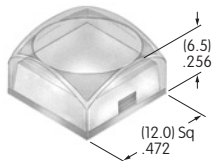
AT3076
Flat Cap for Illuminated with Lens/Diffuser
Polycarbonate
Colors: JB JC JD JF
Series: UB2



AT3077
Beveled Cap for Nonilluminated
Polycarbonate
Colors: A B C D F
Series: UB2



AT3078
12mm Sculptured Cap with Lens/Diffuser
Polycarbonate
Colors: JB
Series: KP



AT3079
15mm Sculptured Cap with Lens/Diffuser
Polycarbonate
Colors: JB
Series: KP



AT3080
17.4mm Sculptured Cap with Lens/Diffuser
Polycarbonate
Colors: JB
Series: KP



AT3081
Transparent Lens
Polycarbonate
Color: J
Series: HB2



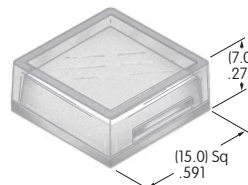
AT3082
Translucent Diffuser
Polycarbonate
Color: B
Series: HB2



AT3083
12mm Flat Cap with Lens/Diffuser
Polycarbonate
Colors: JB
Series: KP



AT3084
15mm Flat Cap with Lens/Diffuser
Polycarbonate
Colors: JB
Series: KP



AT3085
17.4mm Flat Cap with Lens/Diffuser
Polycarbonate
Colors: JB
Series: KP



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

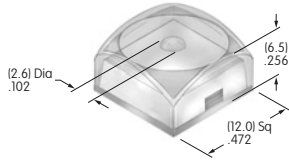
AT3086

12mm Home Key Cap with Lens/Diffuser

Polycarbonate

Colors: JB

Series: KP



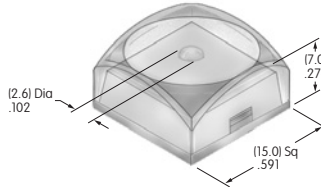
AT3087

15mm Home Key Cap with Lens/Diffuser

Polycarbonate

Colors: JB

Series: KP



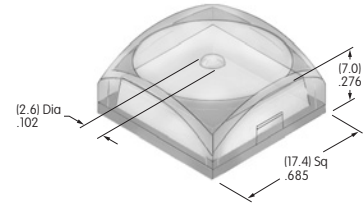
AT3088

17.4mm Home Key Cap with Lens/Diffuser

Polycarbonate

Colors: JB

Series: KP



AT4000s

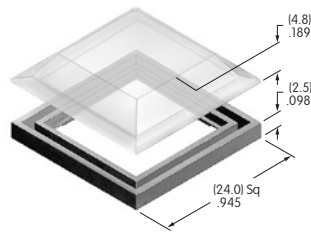
AT4001

Square Dust Cover

Lid: Polyvinyl chloride

Gasket: Polyethylene

Series: LB UB



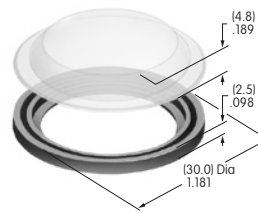
AT4002

Round Dust Cover

Lid: Polyvinyl chloride

Gasket: Polyethylene

Series: LB



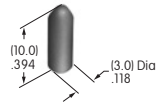
AT4003

.394" Bat Lever Cap

Polyvinyl chloride

Colors: A B C

Series: A B



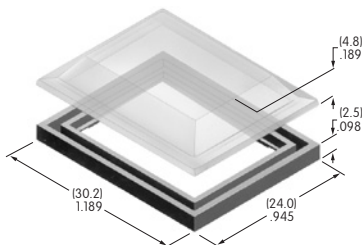
AT4011

Rectangular Dust Cover

Lid: Polyvinyl chloride

Gasket: Polyethylene

Series: LB UB



AT4012

Round Solid Colored Cap

Polycarbonate

Colors: BJ CJ EJ FJ GJ

Series: LB



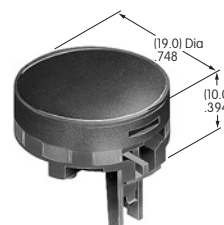
AT4013

Round Colored Insert Cap

Polycarbonate

Colors: JB JC JE JF JG

Series: LB



AT4016

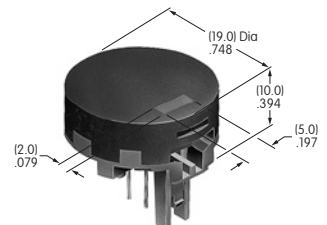
Round Spot Illuminated Cap

Polycarbonate

Cap Colors: A B C F

LED Colors: C D F CF

Series: LB



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT4017

Round Nonilluminated Cap
Polycarbonate
Colors: A B C E F G H
Series: LB



AT4021

Rectangular Solid Colored Cap
Polycarbonate
Colors: A BB CB CC EB
FB FF GB GG
Series: KB



AT4022

Rectangular Colored Insert Cap
Polycarbonate
Cap Colors: JB JC JE JF JG
Series: KB



AT4024

Protective Guard
Cover: Polycarbonate
Base: Polyamide
Series: KB



AT4025

Rectangular Dust Cover
Lid: Polyvinyl chloride
Base: Polyamide
Series: KB



AT4026

Rectangular Solid Colored Cap
Polycarbonate
Colors: BJ CJ EJ FJ GJ
Series: LB



AT4027

Rectangular Colored Insert Cap
Polycarbonate
Colors: JB JC JE JF JG
Series: LB



AT4030

Rectangular Nonilluminated Cap
Polycarbonate
Colors: A B C E F G H
Series: LB



AT4031

Square Cap for Bright & Super Bright LED
Polycarbonate
Colors: JB
Series: HB



AT4032

Round Cap for Bright & Super Bright LED
Polycarbonate
Colors: JB
Series: HB



AT4033

Square Indicator Cap
Polycarbonate
Colors: JB
Series: HB



AT4034

Round Indicator Cap
Polycarbonate
Colors: JB
Series: HB



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

AT4035

Square Nonilluminated Cap
Polycarbonate
Colors: A B C E F G
Series: HB



AT4036

Round Nonilluminated Cap
Polycarbonate
Colors: B C E F G
Series: HB



AT4041 (M-metric H-inch)

Splashproof Boot for Momentary
Black silicone rubber
Series: MB



AT4042 (M-metric H-inch)

Splashproof Boot for Alternate
Black silicone rubber
Series: MB



AT4043

Splashproof Boot
Black silicone rubber
Series: MB SB WB



AT4051

Spot Illuminated Cap
Polycarbonate
Colors: AB
Series: KB



AT4052

Spot Illuminated Cap
Polycarbonate
Colors: AB
Series: HB



AT4054

Round Solid Colored Cap
Polycarbonate
Colors: BJ CJ EJ FJ GJ
Series: LB Panel Seal



AT4055

Round Colored Insert Cap
Polycarbonate
Colors: JB JC JE JF JG
Series: LB Panel Seal



AT4057

Protective Guard
Polycarbonate
Series: LB



AT4058

Sculptured Cap
Polyamide
Colors: A B C E F G H
Series: JB



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

Toggle

Rocker

Pushbutton

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT4059

Flat Cap

Polycarbonate

Colors: A B C E F G H

Series: JB



AT4060

Clear Cap with Colored Diffuser

Polycarbonate

Colors: JB JC JE JF

Series: JB



AT4062

Rocker

Polyamide

Colors: A B C

Series: G



AT4063

.157" Diameter Slip-on Cap

Polyamide

Colors: A B C

Series: GB G3B



AT4064

.248" Bat Lever Cap

Polyvinyl chloride

Colors: A B C

Series: A B



AT4065

Slide Cap

Polycarbonate

Cap Color: A

Window: C E F

Series: SS



AT4072

Protective Guard

Lid: Polycarbonate

Base: Glass fiber reinforced polycarbonate

Series: YB



AT4073

Square Opaque Cap for Nonilluminated

Polycarbonate

Colors: A B C E F G

Series: UB



AT4074

Square Transparent Cap for Illuminated

Polycarbonate

Colors: C D F J

Series: UB



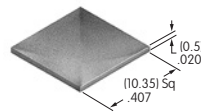
AT4075

Diffuser for AT4074 Square Cap

Polycarbonate

Colors: B C D F

Series: UB



AT4076

Button with Frame for Illuminated

Polycarbonate

Colors: BB BC BE BF BH

Series: JB



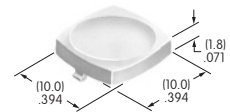
AT4077

Button for Nonilluminated

Polycarbonate

Colors: B C E F G H

Series: JB



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

AT4078

Frame for AT4077

Polycarbonate

Colors: B C E F G H

Series: JB



AT4079

Actuator Key

Brass alloy with bright nickel plating

Series: SK



AT4080

Actuator Key

Brass alloy with bright nickel plating

Antistatic ABS resin handle

Color: A

Series: SK



AT4081

Actuator Key

Zinc alloy with chrome plating

Series: SK



AT4082

Actuator Key

Zinc alloy with chrome plating

Series: SK



AT4094

Actuator Key

Polycetal

Color: A

Series: SK



AT4100s

AT4103

Small Color Tipped Knob

Polyester with polyamide tip

Base Color: A

Tip Colors: A B C E F G H

Series: FR01 MR



AT4104

Large Color Tipped Knob

Polyester with polyamide tip

Base Color: A

Tip Colors: A B C E F G H

Series: FR01 MR



AT4115

Dust Cover

Lid: Polyvinyl chloride

Base: Polyamide

Series: YB



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT4116
Rectangular Opaque Cap for Nonilluminated
Polycarbonate
Colors: A B C E F G
Series: UB



AT4117
Rectangular Transparent Cap for Illuminated
Polycarbonate
Colors: C D F J
Series: UB



AT4118
Diffuser for AT4117 Rectangular Transparent Cap
Polycarbonate
Colors: B C D F
Series: UB



AT4119
Square Spot Illuminated Cap
Polycarbonate
Colors: AB
Series: UB



AT4120
Rectangular Spot Illuminated Cap
Polycarbonate
Colors: AB
Series: UB



AT4124
Actuator Key
Brass with nickel plating
Series: SK



AT4125
LED Rocker
Polycarbonate
Colors: B C E F
Series: MLW



AT4126
Dust Cover
Polyvinyl chloride & polyamide
Color: A
Series: JWL



AT4127
Sculptured Rocker
Polycarbonate
Colors: B C E F
Series: MLW



AT4128
Round Cap for Super Bright LED
Polycarbonate
Colors: JB
Series: LB



AT4129
Square Cap for Super Bright LED
Polycarbonate
Colors: JB
Series: LB



AT4130
Rectangular Cap for Super Bright LED
Polycarbonate
Colors: JB
Series: LB



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

AT4131

Round Cap for Super Bright LED

Polycarbonate
Colors: JB
Series: LB Panel Seal



AT4132

Round Cap for Bright & Super Bright LED

Polycarbonate
Colors: JB
Series: KB



AT4133

Square Cap for Bright & Super Bright LED

Polycarbonate
Colors: JB
Series: KB



AT4134

Rectangular Cap for Bright & Super Bright LED

Polycarbonate
Colors: JB
Series: KB



AT4135

Frosted Cap with White Base

Polycarbonate
Colors: B C E F
Series: JB



AT4137

Rectangular Cap

PBT
Colors: A B C
Series: GB2



AT4139

Square Flat Cap

Polycarbonate
Colors: A B C H
Series: JB



AT4140

Cap for Mounter AT547

Polycarbonate
Colors: A B C H
Series: JB



AT4141

Protective Guard

Cover: Polycarbonate
Base: GFR polyamide
Series: UB2



AT4142

Spring Loaded Protective Guard

Cover: Polycarbonate
Base: GFR polyamide
Coil spring: Stainless steel
Series: UB2



AT4143

End Barrier

Polyamide
Color: A
Series: UB2



AT4144

Center Barrier

Polyamide
Color: A
Series: UB2



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

Toggle

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT4145

Square Dust Cover

Lid: PVC
Gasket: Polyethylene
Series: UB2



AT4146

Tubular Key

Brass with nickel plating
ABS handle
Color: A
Series: CKM



AT4147

Flat Key

Brass with nickel plating
ABS handle
Color: A
Series: CKM



AT4148

.365" Wide Rocker

Polyamide
Colors: A B C E F G H
Series: M M2T P



AT4149

.365" Wide Paddle

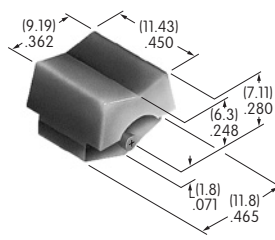
Polyamide
Colors: A B C E F G H
Series: M M2T P



AT4150

.450" Wide Rocker

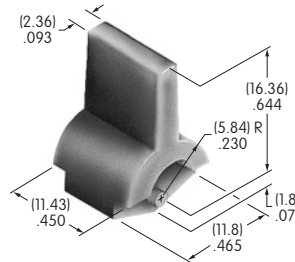
Polyamide
Colors: A B C E F G H
Series: M M2T



AT4151

.450" Wide Paddle

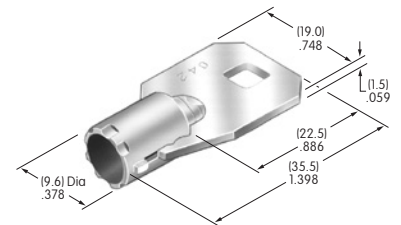
Polyamide
Colors: A B C E F G H
Series: M M2T



AT4152

Tubular Key

Brass with nickel plating
Series: CKL



AT4153

Flat Key

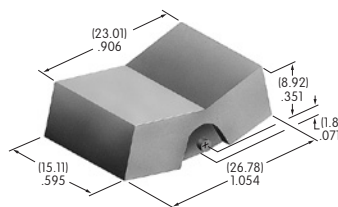
Brass with chrome plating
Series: CKL



AT4156

.595" Wide Rocker

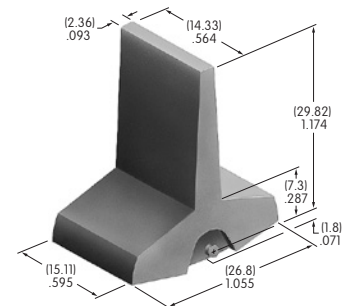
Polyamide
Colors: A B C E F G H
Series: M P



AT4157

.595" Wide Paddle

Polyamide
Colors: A B C E F G H
Series: M P



Color Codes:

A Black

B White

C Red

D Amber

E Yellow

F Green

G Blue

H Gray

J Clear

Accessories & Hardware

AT4158

**Square Cap
for Bright LED**
Polycarbonate
Colors: JC JD JF
Series: KB



AT4159

**Rectangular Cap
for Bright LED**
Polycarbonate
Colors: JC JD JF
Series: KB



AT4160

**Round Cap
for Bright LED**
Polycarbonate
Colors: JC JD JF
Series: KB



AT4162

**Square Cap
for Bright LED**
Polycarbonate
Colors: JB JC JD JF
Series: LB



AT4163

**Rectangular Cap
for Bright LED**
Polycarbonate
Colors: JB JC JD JF
Series: LB



AT4164

**Round Cap
for Bright LED**
Polycarbonate
Colors: JB JC JD JF
Series: LB



AT4165

**Round Cap
for Bright LED**
Polycarbonate
Colors: JB JC JD JF
Series: LB Panel Seal



AT4166

**Square Cap
for Bright LED**
Polycarbonate
Colors: CB DB FB
Series: HB



AT4167

**Round Cap
for Bright LED**
Polycarbonate
Colors: CB DB FB
Series: HB



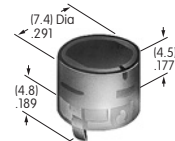
AT4168

**Square Indicator Cap
for Bright LED**
Polycarbonate
Colors: CB DB FB
Series: HB



AT4169

**Round Indicator Cap
for Bright LED**
Polycarbonate
Colors: CB DB FB
Series: HB



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

AT4170

Spring Loaded Protective Guard

Cover: Polycarbonate
Base: Polyamide
Coil spring: Stainless steel
Series: UB2



AT4171

Spring Loaded Protective Guard

Cover: Polycarbonate
Base: Polyamide
Coil spring: Stainless steel
Series: LB UB



AT4172

Spring Loaded Protective Guard

Cover: Polycarbonate
Base: Polyamide
Coil spring: Stainless steel
Series: LB UB



AT4173

Spring Loaded Protective Guard

Cover: Polycarbonate
Base: Polyamide
Coil spring: Stainless steel
Series: UB



AT4174

Spring Loaded Protective Guard

Cover: Polycarbonate
Base: Polyamide
Coil spring: Stainless steel
Series: UB



AT4175

Spring Loaded Protective Guard

Cover: Polycarbonate
Base: Glass fiber reinforced polyamide
Coil spring: Stainless steel
Series: YB



AT4176

Square Cap for Bright LED

Polycarbonate
Colors: JB JC JD JF
Series: LB



AT4177

Rectangular Cap for Bright LED

Polycarbonate
Colors: JB JC JD JF
Series: LB



AT4178

Round Cap for Bright LED

Polycarbonate
Colors: JB JC JD JF
Series: LB



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

AT4179

Round Cap for Bright LED

Polycarbonate

Colors: JB JC JD JF

Series: LB Panel Seal



AT4180

Snap-on Knob

Polyamide

Knob: Black

Flange: Transparent brown

Series: FR01



AT4181 ← NEW

Splashproof Boot Assembly

Boot Material: Black silicon rubber

Hex Nut Material & Finish:

Nickel plated brass

O-ring Material:

Nitrile butadiene rubber

Series: M P S WT



Switch Installation Instructions

1. Install switch bushing into mounting hole of panel from the back and adjust bushing to protrude 3.5 ~ 5.5mm (.138 ~ .217").
2. Install o-ring on bushing and tighten nut from above.
3. Insert boot onto nut. Be sure the boot and nut are a firm, secure fit.

Non-Splashproof Switches

M, P or S Toggles with 12mm Bushings



Use boot, nut and o-ring as shown. Use lockwasher and hexagon nut (from standard switch hardware) behind panel.

For 12mm Bushings in M, P, S & WT Toggles

Boot & Nut Assembly Instructions

1. Stretch base of the boot to fit around outer edges of the nut.
2. The ridge inside of boot must be firmly seated in groove of the nut.
3. Moving all around perimeter, push (with about 10N of force) toward center to assure boot seals tightly into groove (with no air pockets).



Splashproof Switches

S1AW ~ S29AW S Toggles

WT Toggles or M Toggle with B3 Bushing



Use boot, nut and o-ring as shown. Use o-ring only (from standard switch hardware) behind panel.



Series or Part Numbers	Panel Thickness (Maximum)
• M Series B2 Toggles with 12mm B1 & B3 Bushings • P Series B Toggles with 12mm Bushing • S31 ~ 39, S41 ~ 49, S31F ~ 33F, S41F ~ 34F, S31T ~ 33T, S41T ~ 43T • S301 ~ 309, S331 ~ 339, S301F, S331F ~ 333F, S335F, S301T ~ 309T, S331T ~ 339T • S421 ~ 429, S421T ~ 429	5.0mm (.197")
• WT11S ~ 29S, WT11T ~ 29T, WT11L ~ 29L	3.5mm (.138")
• S1A ~ 7A, S21A, S1F ~ 7F, S21F • S114, S116 • S1AW ~ 9AW, S21AW, S25AW ~ 29AW	3.0mm (.118")

Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Accessories & Hardware

AT9000s

AT9201

Bezel

Polycarbonate

Colors: A B C D E F G H

Series: MLW



AT9410

Round Splash Cover

Lid: Polyvinyl chloride

Base: Polyethylene

O-ring: Nitrile butadiene rubber

Series: LB Panel Seal



AT9704-02YC

Socket for LCD 36 x 24

Single & Bicolor Pushbutton

Base: Glass fiber reinforced PBT

Terminals: Brass/beryllium copper

Series: SmartSwitch



AT9704-065E ← NEW

Socket for LCD 36 x 24

RGB Pushbutton

Base: Glass fiber reinforced PBT

Terminals: Brass/beryllium copper

Series: SmartSwitch



AT9704-065F

Socket for LCD 36 x 24

Compact Pushbutton

Base: Glass fiber reinforced PBT

Terminals: Brass/beryllium copper

Series: SmartSwitch



Note: By extracting some of the pins, socket may be used for the 64 x 32 Compact Pushbutton

AT9704-085K ← NEW

Socket for LCD 64 x 32 Pushbutton

Base: Glass fiber reinforced PBT

Terminals: Brass/beryllium copper

Series: SmartSwitch



AT9704-085L ← NEW

Socket for OLED 64 x 48 Pushbutton

Base: Glass fiber reinforced PBT

Terminals: Brass/beryllium copper

Series: SmartSwitch



AT9704-085M ← NEW

Socket for OLED 52 x 36 Display

Base: Glass fiber reinforced PBT

Terminals: Brass/beryllium copper

Series: SmartSwitch



Color Codes: A Black B White C Red D Amber E Yellow F Green G Blue H Gray J Clear

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru