

Hardware

For miniature switches

- Standard hardware is automatically supplied with the switches
- Non standard hardware is to be ordered separately



Hardware supplied with sealing options :

- K version : 2 hex nuts + sealing washer
- X408 option : 1 hex nut + 1 O-ring

STANDARD HARDWARE FOR SWITCHES Ø 6 (.236) - 5000 SERIES

HEX NUT	LOCKING RING	LOCKWASHER
Ø6.00 x 0.75 SI (.236 DIA x 0.75SI)	Ø11.80 (.464 DIA) Ø6.10 (.240 DIA) 5.50 (.216) Ø9.50 (.374 DIA) Ø6.50 (.255 DIA) 0.80 (.031)	Ø9.50 (.374 DIA) Ø6.50 (.255 DIA) 0.80 (.031)
Nickel plated Matt black	Nickel plated Matt black	Stainless steel
U208 U726	U198 U728	U215

NON STANDARD HARDWARE FOR SWITCHES Ø 6 (.236) - 5000 SERIES

KNURLED NUT	SPECIAL NUT 12 (.472) ACROSS FLATS	KNURLED CAP NUTS
Ø9.00 (.354 DIA) 2.20 (.086) Ø6.00 x 0.75 SI (.236 DIA x 0.75SI)	12.00 (.472) 2.00 (.086) Ø6.00 x 0.75 SI (.236 DIA x 0.75SI)	Ø9.00 (.354 DIA) Ø5.20 (.204 DIA) 2.70 (.106) Ø12.00 (.472 DIA) Ø4.80 (.188 DIA) 2.60 (.102) Ø6.00 x 0.75 SI (.236 DIA x 0.75SI)
Chrome plated	Chrome plated	Chrome plated Matt black
U826	U1916	U461 U502
		Chrome plated U232

STANDARD HARDWARE FOR SWITCHES Ø 6,35 (1/4) - ALL SERIES

HEX NUT	LOCKING RING	LOCKWASHER
8.00 (.314) 1.60 (.062) Ø6.35-40UNS (1/4-40UNS)	Ø9.60 (.377 DIA) 5.20 (.204) Ø6.50 (.255 DIA)	Ø9.50 (.374 DIA) Ø6.50 (.255 DIA) 0.80 (.031)
Nickel plated Matt black	Nickel plated Matt black	Stainless steel
U76 U94	U78 U93	U215

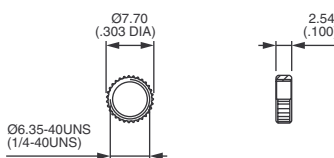
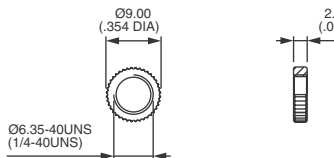
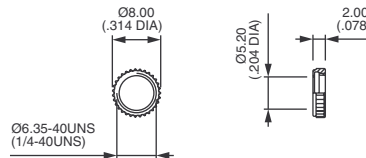
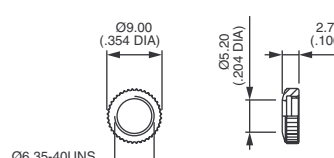
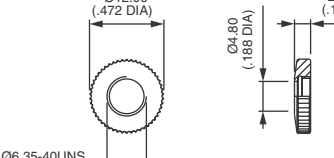
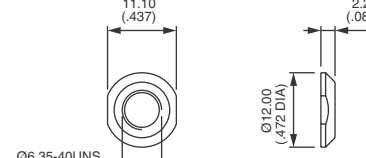
HARDWARE SUPPLIED (unsealed types)

SERIES	HEX NUT	LOCKING RING	LOCKWASHER
SF	2	1	1
11000	2	1	1
13000	2	1	1
18000-8000-SP	2	1	1
21000N	2	-	-
5000	2	1	1
9400-9600	2	-	1

Hardware

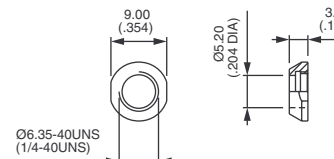
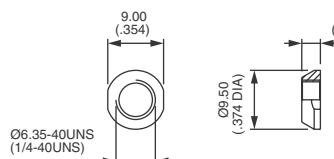
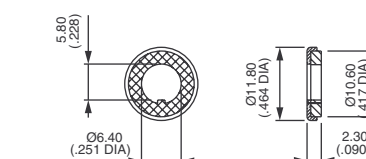
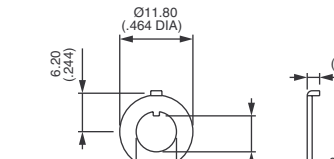
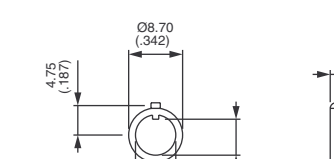
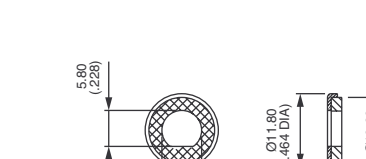
For miniature switches

NON STANDARD HARDWARE FOR SWITCHES Ø 6,35 (1/4) - ALL SERIES

KNURLED NUT  Nickel plated U369	KNURLED NUT  Nickel plated U229 Matt black U230	KNURLED NUT  Chrome plated U501
KNURLED CAP NUT  Chrome plated U216 Matt black U218	KNURLED CAP NUT  Chrome plated U268 Matt black U725	DRESS NUT  Nickel plated U443 Matt black U848

* U216 and U268 : consult factory for mounting on 11000 three and four pole, and 5000 locking lever models.

OTHER HARDWARE FOR SWITCHES Ø 6,35 (1/4) - ALL SERIES

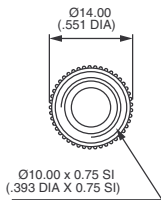
CONIC CAP NUT  Nickel plated U500	CONIC NUT  Chrome plated U542 Nickel plated U561	SEALING WASHER for keyway bushing  U360
SPECIAL LOCKING RING Spacing 6,2 mm (.244)  Nickel plated U368	SPECIAL LOCKING RING Spacing 4,75 mm (.187)  Nickel plated U409	SEALING WASHER for flatted bushing  U5141

Hardware

For miniature switches

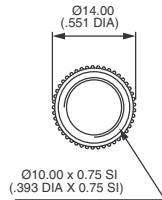
STANDARD HARDWARE FOR SWITCHES Ø 10 (.393) - 10400 AND 10600 SERIES

**KNURLED CAP NUT
(std for 10600)**



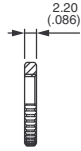
Chrome plated
U2220

**KNURLED NUT
(std for 10400)**



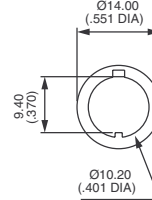
Chrome plated
U2311

HEX NUT



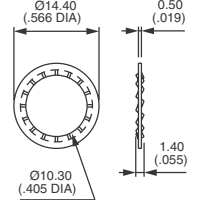
Nickel plated
U842

LOCKING RING



Nickel plated
U844

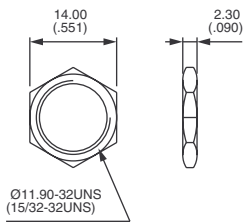
LOCKWASHER



Stainless steel
U843

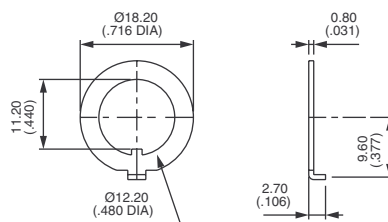
STANDARD HARDWARE FOR SWITCHES Ø 11,9 (15/32) - 12000, 13000X768 AND 5600M SERIES

HEX NUT



Nickel plated
Matt black
U162
U41

LOCKING RING

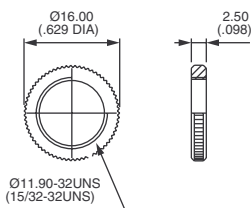


Nickel plated
Matt black
U121
U12

SERIES	HARDWARE SUPPLIED	
	HEX NUT	LOCKING RING
12000	2	1
13000X768	1	-
5600M	2	1
8000X718	2	1

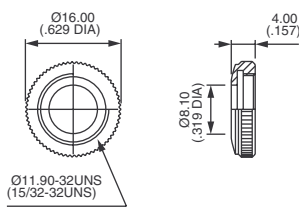
NON STANDARD HARDWARE FOR SWITCHES Ø 11,9 (15/32) - 12000, 13000X768 AND 5600M SERIES

KNURLED NUT

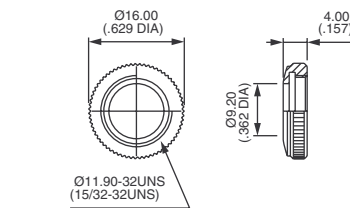


Nickel plated
Matt black
U53
U1634

KNURLED CAP NUTS

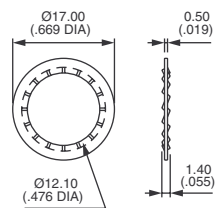


Chrome plated
U124



Chrome plated
U123

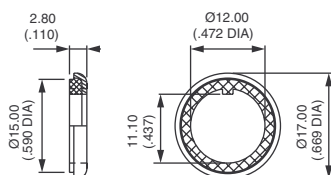
LOCKWASHER



Zinc plated
U13

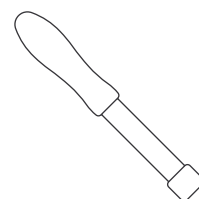
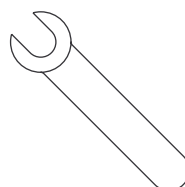
OTHER HARDWARE

SEALING WASHER



U60

WRENCHES



Wrenches are available for some accessories. Consult factory.

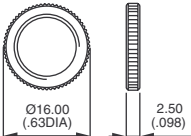
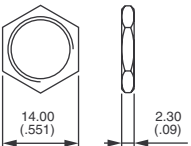
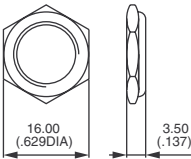
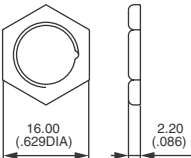
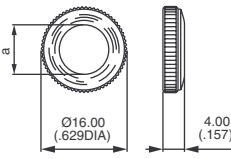
Hardware

For industrial switches

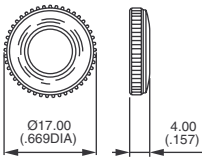
- Standard hardware is indicated by darkened boxes.
For details of hardware supplied, please refer to beginning of each series.
- Special hardware is to be ordered separately.



Hardware supplied with K sealing option : 2 hex nuts.

NUTS	Bushing Ø 11,9 (15/32) thread 0,794-32UNS Series 3500 - 6000			Bushing Ø 12 (.472) thread 0,75 Series IB/IS - IP - 660 - 600H - 600NH 1000 - 1200 - 1500 - 1600 - 1700 - 3600 - 4000		
	Chrome plated brass	Nickel plated brass	Matt black brass	Chrome plated brass	Nickel plated brass	Matt black brass
		U53		U412	U411	U413
	U92	U162	U41	U212	U166	U183
 Hex cap nut				U35		
 PAL nut					U42 (passive zinc plated steel)	
 Knurled cap nut	U123			U117 $\alpha = 8,5 (.334)$ U118 $\alpha = 10,3 (.405)$		U129 $\alpha = 8,5 (.334)$ U130 $\alpha = 10,3 (.405)$

INSULATED NUT U520

 ABS or polyamide with glass fibre	For threaded bushing Ø 12 (.472) x 0,75 IS Series 1500 - 4000 - 600NH - 6-600NH								
	Blue	Black	Green	Grey	Yellow	Red	White	Chrome plated	Orange
	U521	U522	U523	U524	U525	U526	U527/1	U528	U529

The locking ring U121 (nickel plated) or U12 (matt black) is only provided with tropicalized switches version T or G and with series 3500 - 6000.

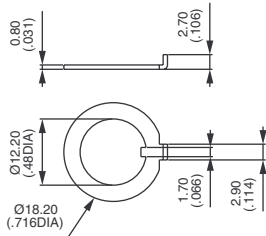
The lockwasher U13 must be ordered separately, except for series 660, 3500 and 6000.

Hardware

For industrial switches

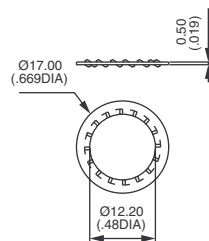
HARDWARE FOR SWITCHES Ø 12 (.472) AND 11,9 (15/32)

LOCKING RING



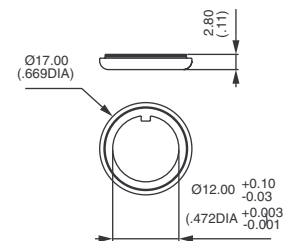
Nickel plated **U121**
Matt black **U12**

LOCKWASHER



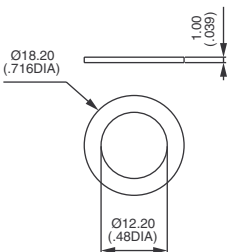
Zinc plated **U13**

SEALING WASHER



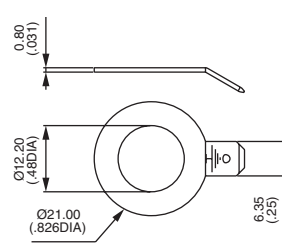
Stainless steel and neoprene **U60**

SEALING WASHER FOR BOOTS



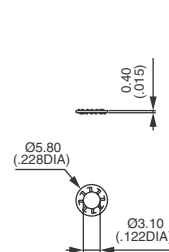
Nylon **U21**

GROUND CONNECTOR



Nickel plated **U187**

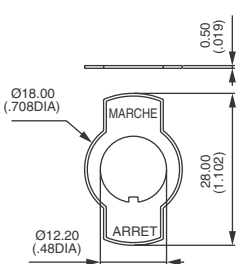
LOCKWASHER



U14

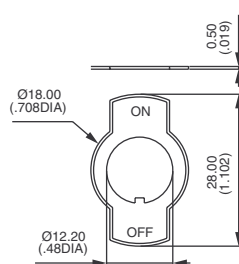
PLATES FOR SWITCHES Ø 12 (.472) AND 11,9 (15/32)

Marche - arrêt



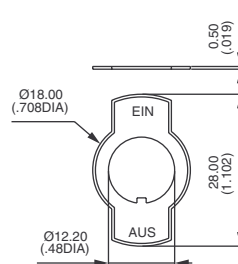
U17

ON - OFF



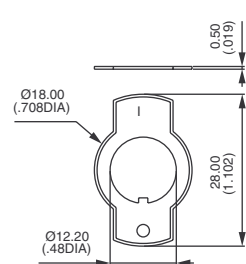
U19

EIN - AUS



U99

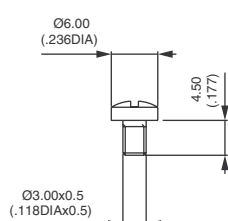
I - 0



U1050

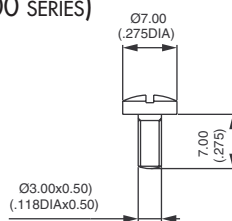
SCREWS (supplied with the switches)

CONNECTING SCREW



U03

MOUNTING SCREW Ø 3 (.118) (6000 SERIES)



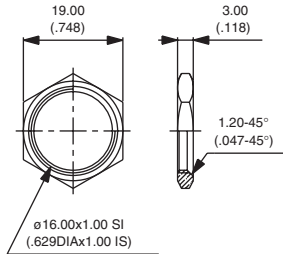
Nickel plated **U164**
Chrome plated **U165**
Matt black **U45**

Hardware

For industrial switches

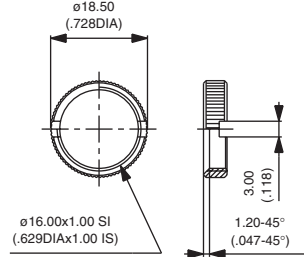
HARDWARE FOR AV SERIES (ANTI-VANDAL AND SECURITY PUSHBUTTON SWITCHES)

HEX NUT FOR MODELS Ø 16 (.629)



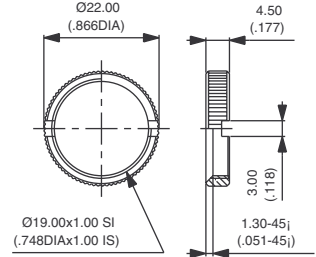
10-621 (sealed or unsealed models)

KNURLED NUT FOR MODELS Ø 16 (.629)



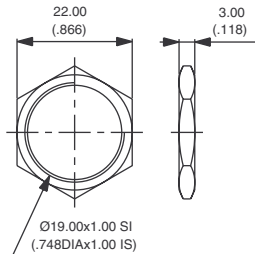
10-960-5 (sealed or unsealed models)

KNURLED NUT FOR MODELS Ø 19 (.748)

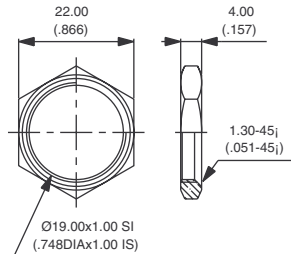


U1977-5 (sealed or unsealed models)

HEX NUTS FOR MODELS Ø 19 (.748)



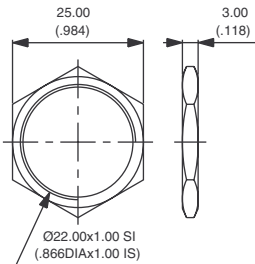
U1950-5 (unsealed models)



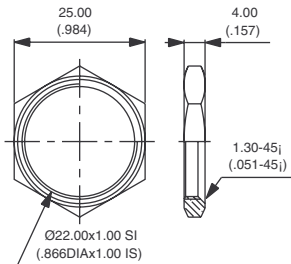
10-855-5 (sealed models)

Wrench for nut U1977-5 available under part number **U1929**.

HEX NUTS FOR MODELS Ø 22 (.866)

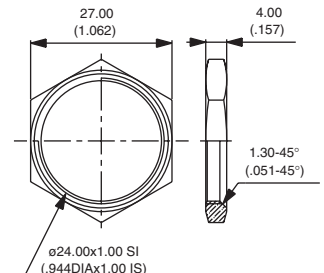


U1951-5 (unsealed models)



10-856-5 (sealed models)

HEX NUT FOR MODELS Ø 24 (.944)



U2059-5 (sealed or unsealed models)

All above nuts are made of nickel plated brass.
For switches with front panel sealing (option K), a neoprene O-ring is supplied with each nut.

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А