

# PRODUCT DATA SHEET

**sullus**<sup>®</sup>  
security systems



## BRAVUS.3000 padlock 480

SKU AB.B3000.VH.480

Producer No. B3L480

The Bravus.3000 system combines a legal copy protection with an extremely high technical copy protection and thus guarantees safe protection against illegal key copies.

Bravus.3000 is equipped with the Intellitec system, a newly developed test unit on the key and in the cylinder. The Intellitec system's multi-dimensional scanning prevents the locking process with an unauthorized key.

The Bravus.3000 system offers high-quality solutions for applications in the private, commercial and public sector.

### Measurements

- standard shackle height: 28 mm
- shackle: Ø 8 mm
- case width: 50 mm

### Technical characteristics

- patented Intellitec system for extremely high technical copy protection, highest protection against illegal key copies (multidimensional query)
- 3. Safety level in the Bravus system (3 locking rows)
- 10 spring loaded locking elements and up to 6 code pins in three locking rows
- 6-pin system
- standard drilling protection BS01 made of hardened special steel
- 14 mm core diameter
- locking path: 90°, key can be removed in both locking positions
- according to DIN 18252 and DIN EN 1303, certified according to ISO 9001:2008
- patent protection until 2030

### Execution

- reversible key system
- horizontal, easy key insertion
- padlock: ground brass, chrome-plated
- with hardened steel shackle, nanoprotected
- combination with electronic systems possible at any time

### Options / Special equipment

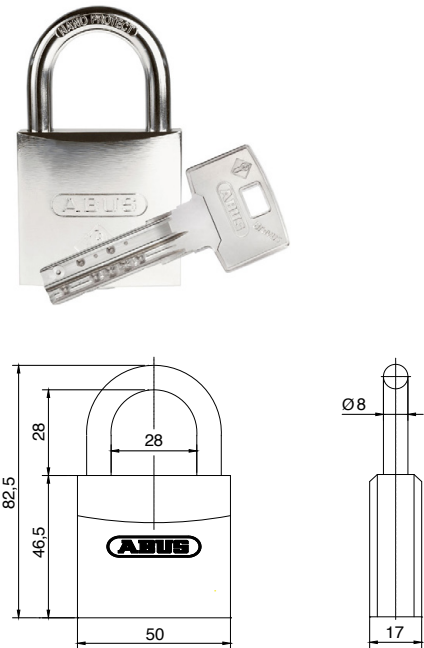
- different shackle heights (48 mm, 80 mm)
- shackle made of chrome nickel steel (on request)

### Operational area

- indoor, conditionally for outdoor usage
- garden gates, steel and lattice gates

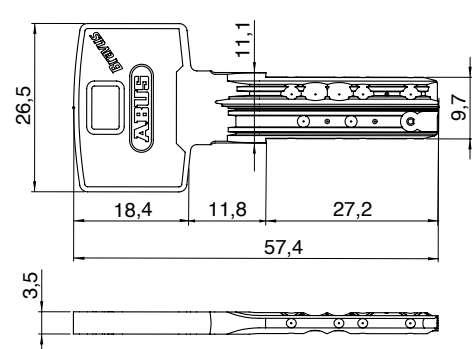
### Scope of delivery

- padlock 480 incl. 3 or more keys
- Security card



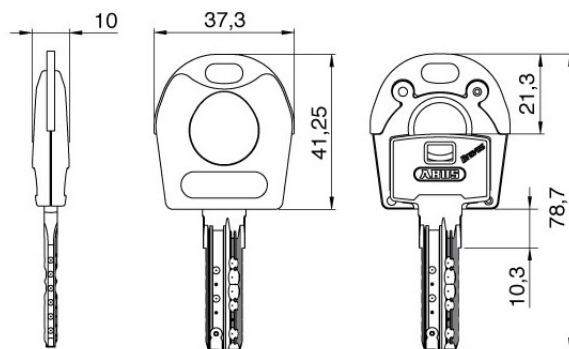
### Key

- key thickness: 3,5 mm
- comfortable, stable reversible key made of wear-resistant nickel silver
- highest key copy protection
- plastic key caps (COMBICAP, SKUNI)
- on request with integrated transponder for the control of electronic systems (compatible only with COMBICAP and SKUNI key, later retrofitting only with COMBICAP)



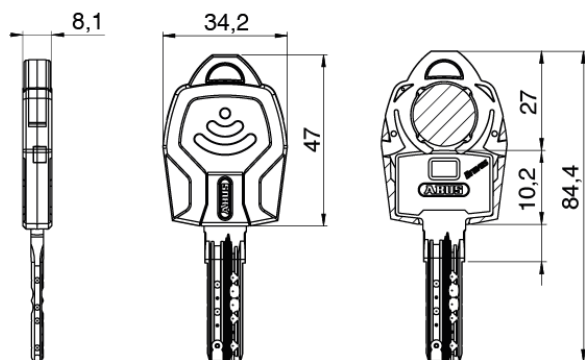
### Key cap SKUNI

- key caps without transponder
- key caps made of plastic with metal reinforcement made of nickel silver
- for special design requirements for the keys
- for easy optical differentiation
- increased locking comfort due to enlarged key head
- subsequent opening of the key cap as well as retrofitting or replacement is not possible
- the key cap is mounted using an ultrasonic welding process, so factory assembly is absolutely necessary
- on request with integrated transponder to control external systems such as time recording, parking management systems or cashless accounting systems
- use exclusively with keys from ABUS Pfaffenhain
- combination with electronics



### Key cap COMBICAP

- key caps without transponder
- retrofittable plastic key cap for all mechanical keys of ABUS locking systems (no factory installation)
- coloured and numbered key cap for easy optical differentiation of keys
- increased locking comfort due to enlarged key head
- COMBICAP enables the combination of mechanical and electronic cylinders in a locking system as well as the retrofitting of electronics
- transponder can be optionally integrated for the control of electronic systems such as time recording, parking management systems, alarm systems or cashless accounting systems
- integration of up to two transponders for different electronic functions, e.g. access control and payment function
- use exclusively with keys from ABUS Pfaffenhain
- combination with electronics



### Combination with electronics

In an ABUS locking system, mechanical and electronic locking cylinders can be flexibly combined at any time - either directly ex works or later in retrofitting. This potential for expansion allows you maximum flexibility and future-proofing when planning your building security. With the combination keys you can lock mechanical and electronic cylinders with just one key. Alarm systems, external systems or time recording and payment terminals can be integrated into the locking system at any time.

Thanks to COMBICAP and SKUNI CAP, combination with electronic systems is very easy. The key can be supplied directly from the factory as a mechanical-electronic combination key. Later retrofitting of electronic components is only possible with the COMBICAP.

## Technical details

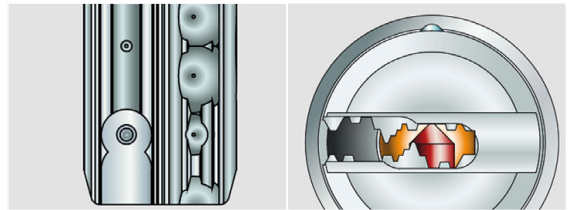
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### Highest technical and legal copy protection through Intellitec system

**With the key copying machines currently available on the market, no illegal copies of the Bravus key can be made.**

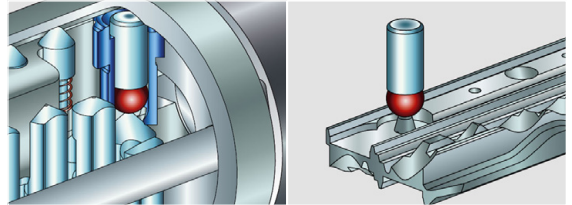
Attempts to make an illegal key copy fail because of the Intellitec system. The milling of a key with Intellitec system is not possible with standard key cutting machines. Without the Intellitec system on the key, the cylinder cannot be locked because the Intellitec system is scanned three-dimensionally in the cylinder. The Intellitec detector in the cylinder checks the exact shape, position and height of the Intellitec pin on the key. If a key does not have the corresponding Intellitec pin, it cannot be fully inserted into the key channel and the locking process is blocked.

The security card to the locking system is a further security feature. It must be presented to legitimately obtain a copy of the key.



Intellitec system on the key

Precision profile



Intellitec system in the cylinder

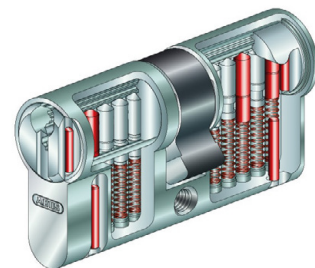
Intellitec query

## Security options

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### Increased drilling protection BS01 (standard)

The drilling protection is achieved by using two additional hardened steel pins (the first and third pair of pins) in the cylinder core and body on each locking side (in double cylinders generally on both sides). This achieves the attack resistance class 2 according to EN 1303 and makes violent opening attempts more difficult.



Drilling protection BS01