



Small Format Interchangeable Core (SFIC) Specifications & General Data

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Contents

<u>Overview</u>	<u>3</u>
<u>Nomenclature & Dimensions</u>	<u>4</u>
<u>Pinning Systems</u>	<u>7</u>

Overview

KSP has been producing the Small Format Interchangeable Core (SFIC) since the 1980s. The core itself has generally speaking changed very little. Modern machinery and processes have yielded strong gains in terms of quality and cost control.

Our SFIC core products are compatible with Best, Falcon, Arrow and other manufacturers of the SFIC core and related products.

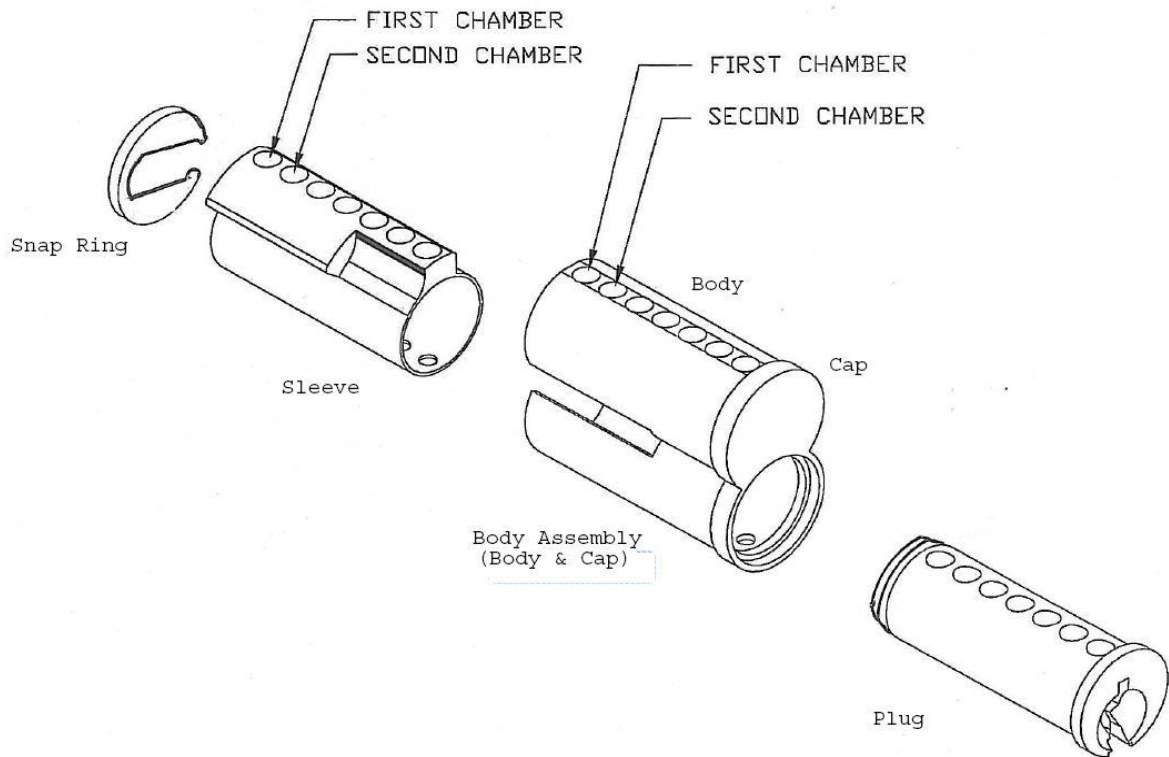
Within this document we will provide some general information on our core and the popular A2 pinning system. Any questions that cannot be answered here in this document should be forwarded to KSP customer service.

Thank You.

Nomenclature & Dimensions

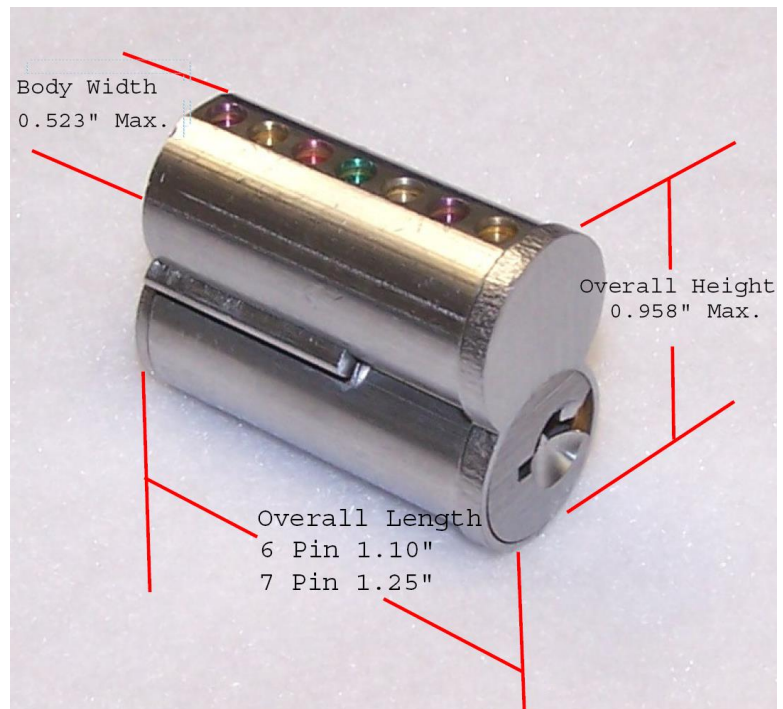
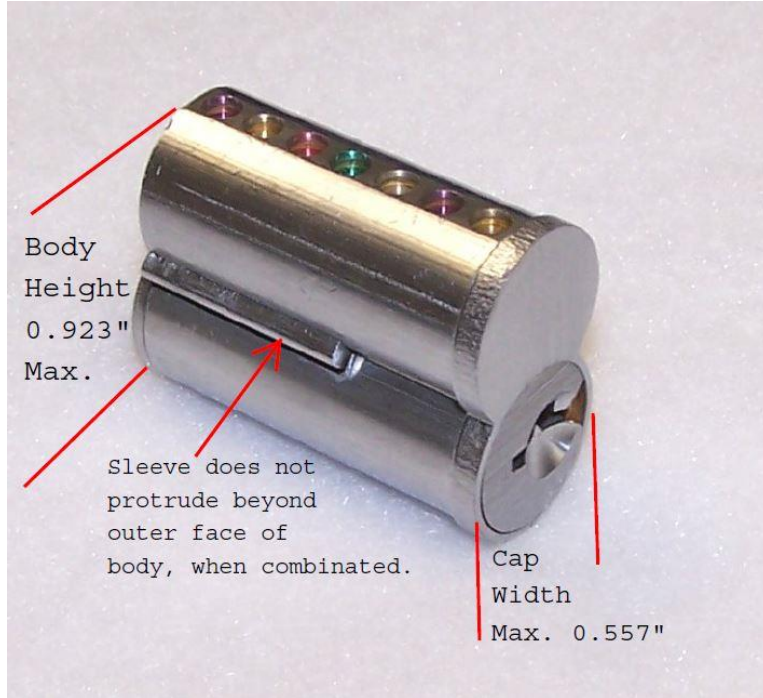
The SFIC is an assembly of four main components. There is a plug, sleeve, body assembly, and snap ring.

The snap ring secures all of the components together and also serves as the key stop.



Core assembled in 26D finish.

There are several dimensions and features that are important for function with mating parts. Some of the significant features and dimensions are noted below.



General Specifications:

Material:

Plug	Brass
Sleeve	Brass
Body Assy.	Brass
Snap Ring	Stainless Steel

Brass components produced in house at our Worcester, MA facility. Snap ring is locally sourced.

Weights:

6 Pin Core Un-Combinated 0.093 lbs. ea.

-as packed for shipping 1.967 lbs. (20 pcs)

7 Pin Core Un-Combinated 0.110 lbs. ea.

-as packed for shipping 2.292 lbs. (20 pcs.)

Keyways available: A,B,C,D,DD,E,F,G,H,J,K,L,M,Q,R,1C,1D, KMT100, KMT300 & LT10. Others keyways are currently being evaluated.

Finishes: 26D and US4, others available upon request

Cores and Housings are ROHS compliant.

KSP cores and housings are Made in the USA.



Pinning System

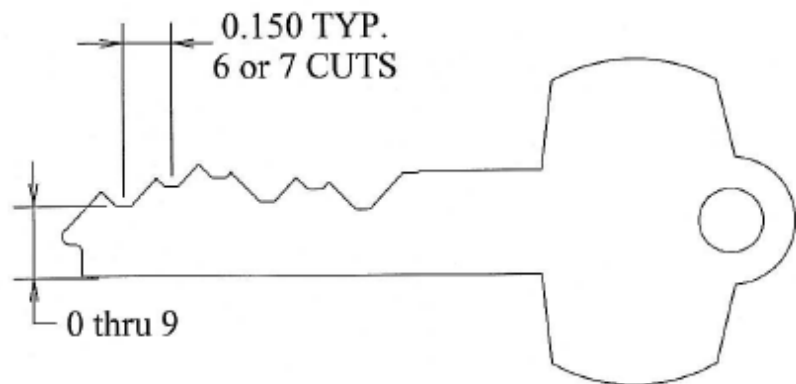
We use the A2 pinning system when we combine cores. The information specific to the A2 system is offered below. There is also an A3 and A4 system as well; those two systems have different pin dimensions and accordingly, different key cut depths.

KSP recommends nickel silver keys to ensure long service life.

A2 pinning system key cut depths and locations.

KEY CUTS:- 10 STEPS .0125 INCR.

0	=	.3180
1	=	.3055
2	=	.2930
3	=	.2805
4	=	.2680
5	=	.2555
6	=	.2430
7	=	.2305
8	=	.2180
9	=	.2055



The A2 pinning system uses a series of bottom pins (which contact the key directly) and top pins to allow for master pinning, control function and completing the stack up to a count of 23. KSP recommends the use of nickel silver bottom pins to ensure long service life.

A2 pinning system pin dimensions are given below.

Bottom Pins

#0 0.110"
#1 0.122"
#2 0.135"
#3 0.147"
#4 0.160"
#5 0.172"
#6 0.185"
#7 0.197"
#8 0.210"
#9 0.222"

Top Pins

#2 0.025"
#3 0.037"
#4 0.050"
#5 0.062"
#6 0.075"
#7 0.087"
#8 0.100"
#9 0.112"
#10 0.125"
#11 0.137"
#12 0.150"
#13 0.162"
#14 0.175"
#15 0.187"
#16 0.200"
#17 0.212"
#18 0.225"
#19 0.237"