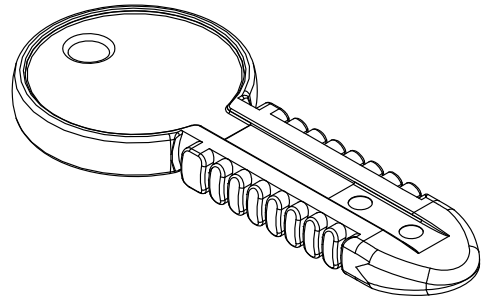
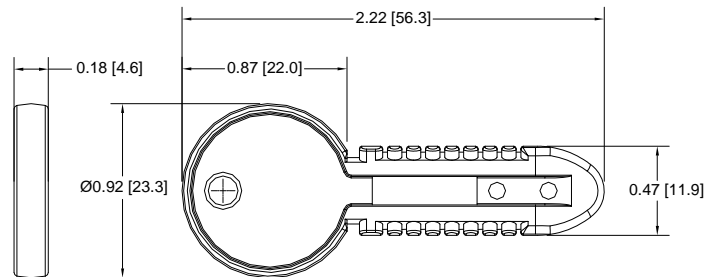


Datakey Electronics large memory capacity serial flash memory Keys feature a Serial Peripheral Interface (SPI)¹ which is a synchronous serial data link that is standard across many microprocessors and other peripheral chips. It provides a high bandwidth network connection among CPUs and other devices supporting the SPI-compatible bus. The primary applications are data logging, firmware updates, and data transfer. The memory can be written or programmed 1 to 256 bytes at a time, using the Page Write or Page Program instructions. Refer to the SPI Flash Interface Specification for specific sector and page information. The SFK Series features Datakey Electronics' industry-leading solid molded construction, rugged wear-resistant exterior and long-lasting contacts.

| Mechanical | |
|-----------------------------------|---|
| Contact Life | 15,000 Insertions/Removal Cycles Min. |
| Contact Arrangement | Fully Redundant (Top:Bottom) |
| Key Head Shear Limit | 15 Pounds |
| Key Twist Torque Limit | 15 Inch-pounds |
| Electrical ¹ | |
| Power, Active | 50mW Typical |
| Power, Standby | 180µW Typical |
| Voltage | 2.7 to 3.6V |
| ESD Protection | 10kV (per Std. 064-1028) |
| Environmental | |
| Storage Temperature | -40° C to + 100° C |
| Operating Temperature | -40° C to + 85° C |
| Relative Humidity | 5% to 95% (non-condensing) |
| Memory ¹ | |
| Key: | Capacity: |
| SFK1Mb | 1,048,576 bits (131,072 bytes) |
| SFK2Mb | 2,097,152 bits (262,144 bytes) |
| SFK4Mb | 4,194,304 bits (524,288 bytes) |
| SFK8Mb | 8,388,608 bits (1,048,576 bytes) |
| SFK32Mb | 33,554,432 bits (4,194,304 bytes) |
| Read Cycles | Unlimited |
| Write/Erase Cycles | 100,000 Cycles Minimum |
| Data Life (Storage) | 20 Year Data Retention |
| Mating Component(s) | |
| Panel-Mount Receptacle | KC4210 |
| PCB Mount Receptacle | KC4210PCB |
| Reader/Writer | KeyLink™ III (recommended), KeyLink™ II |
| Ordering Information ² | |
| SFK1Mb | 611-0083-00XA |
| SFK2Mb | 611-0089-00XA |
| SFK4Mb | 611-0104-00XA |
| SFK8Mb | 611-0132-00XA |
| SFK32Mb | 611-0164-00XA |



Refer to Keyceptacle® data sheets for pin-out information. Other Key head designs and customization are also available. Contact factory.



Drawing dimensions are in inches and millimeters [mm]. Dimensions are nominal and subject to manufacturer's tolerances.

NOTES:

- 1: Complete SPI Interface Specification available at http://www.datakeyelectronics.com/technical_inter_specs.html
- 2: "X" indicates optional color number. "A" suffix on part number indicates RoHS compliance.

