

A-A-2561
 April 6, 1988

COMMERCIAL ITEM DESCRIPTION

KEY, COWL FASTENER

The General Services Administration has authorized the use of this commercial item description in preference to GGG-K-266.

This description covers one type of key for use in locking and unlocking cowl fasteners on airplanes or other equipment and is assigned National Stock Number 5120-00-604-5007.

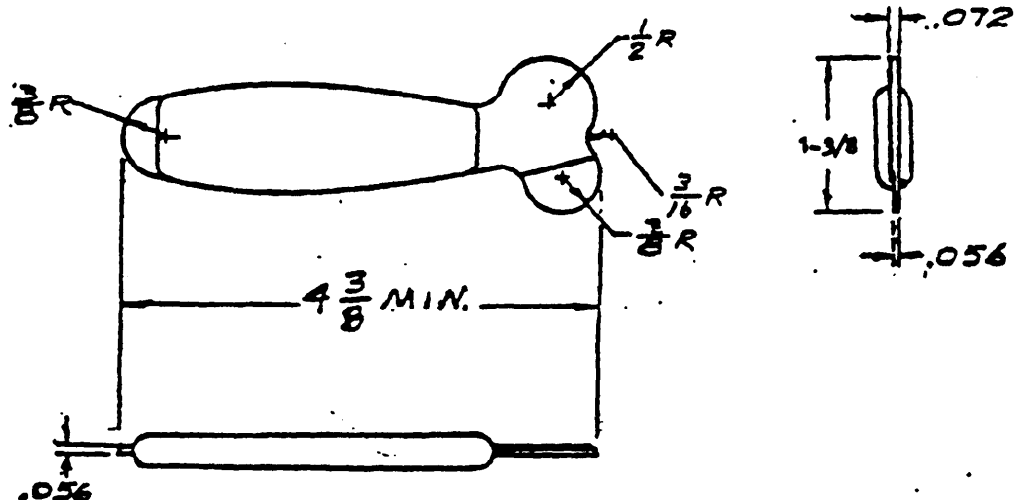
Salient characteristics.

The body shall be constructed of steel conforming to grade 1095 of ASTM A108 or MIL-STD-7947. The material shall be heat-treated to a Rockwell hardness of not less than 42 nor more than 48 on the C scale. The Rockwell hardness test shall be conducted in accordance with ASTM E18.

The finish on the body shall be chrome plating, nickel-plating, zinc-plate, hot phosphating, or oxide coating.

The handle shall be straight grained hardwood or of polyolefin. The handle shall be securely attached to the body. If made of hardwood, the finish shall be satin and protected by a coat of varnish or lacquer to prevent absorption of moisture. The varnish or lacquer shall be transparent so as not to conceal the grain of wood. When tested as specified below, plastic handles shall not burn at a rate exceeding 2 inches per minute.

The dimensions specified in inches shall conform to the figure below. The tolerance for fractional dimension is $\pm 1/16$; for decimal dimension the tolerance shall be ± 0.005 . The illustration is for convenience of identification and is not intended to preclude the purchase of keys which are in accordance with this description.



Identification marking. Each key shall be stamped or etched in a permanent and legible manner with the manufacturer's name or identifying symbol of such known character that the source may be readily identifiable, part number and country of origin.

Workmanship. The key shall be free from any defects that would affect appearance, serviceability, or durability.

FSC 5120

DISTRIBUTION STATEMENT A. Approved for Public Release, Distribution is Unlimited.

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QUALITY ASSURANCE PROVISIONS

Examination of the end item for defects in visual, dimensional and workmanship. Sampling shall be in accordance with MIL-STD-105. The lot shall consist of all keys offered for acceptance at one time. The sample unit shall be one completely fabricated key. The inspection level shall be I with an acceptable quality level (AQL) of 4.0 expressed in terms of percent defective.

Inspection for testing hardness. Sampling shall be in accordance with MIL-STD-105. The lot shall consist of all keys offered for acceptance at one time. The sample unit shall be one completely fabricated key. The inspection level shall be S-3 with an AQL of 4.0 expressed in terms of percent defective.

Testing for flammability of plastic handles. Sampling shall be in accordance with MIL-STD-105. The lot shall consist of all keys offered for acceptance at one time. The sample unit shall be completely fabricated key. The inspection level shall be S-3 with an AQL of 1.5 defects per hundred units. Testing shall be as follows:

Flammability test for plastic handles. The blade of the fastener key shall be clamped in a support with the plastic handle extended outward in a horizontal position. Under the handle there shall be clamped a piece of 10-mesh Bunsen-burner gauze about 5 inches square, in a horizontal position, 1/4 inch below the bottom of the handle, and with about 1/2 inch of the handle extending beyond the edge of the gauze. A Bunsen burner with a flame 1/2 to 3/4 inch in height shall be adjusted so that the flame tip will just contact the specimen when placed under the free end of the handle. At the end of 30 seconds the flame shall be removed and the sample allowed to burn. The rate of travel of the flame shall be determined from the time required for the flame to travel the length of the handle after the removal of the Bunsen burner. In case the handle does not continue to burn after the first ignition, the burner shall be replaced under the free end for a period of 30 seconds immediately following the extinction of the flame. If the handle does not continue to burn until the flame has reached the blade end of the handle after the second ignition, the sample shall be considered self-extinguishing. When tested as specified, the plastic handles shall not burn at a rate exceeding 2 inches per minute.

Regulatory requirements. The offerer/contractor is encouraged to use recovered materials in accordance with Public Law 94-580, as amended, to the maximum extent practicable.

Preservation, packaging, packing, labeling, and marking. Preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

Notes. The issue of referenced documents in effect on date of invitation for bid or request for proposal shall be used to determine compliance with the stated requirements. Sources for obtaining referenced documents may be determined by contacting the Contracting Officer.

ASTM standards are available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

Military Standards are available from Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

MILITARY INTERESTS

Military Coordinating Activity
Army - GL

Custodians:
Army - GL
Air Force - 99

Review activity:
Air Force - 84

PREPARING ACTIVITY:

GSA - F88