



RAF ELECTRONIC  
HARDWARE

a Division of MW Industries, Inc.

**SHORT FORM CATALOG**  
**AMERICAN STANDARD & METRIC DIMENSIONED**  
**ELECTRONIC HARDWARE & HANDLES**



*A summary  
of the complete RAF line  
of reliable, high quality components*

[www.rafhdwe.com](http://www.rafhdwe.com)

### Captive Panel Screws



#### FEATURES

- Six styles of captive panel screws and seven swaged retainer types.
- Brass, steel, stainless steel.
- More than 30 metallic finishes.
- Threads from 2-56 to 3/8-16.
- Lengths from 21/32" to 2".
- Head diameters from 5/16" to 3/4".
- Also available as standard parts in metric dimensions.

Invaluable for equipment panels where mounting hardware is subject to loss, these captive screws and retainers assure easy and secure assembly. In addition to standard models, users choose variations such as slotted, unslotted or hex heads, washers for oval head styles, plus retainer spring and washer sets.

### Spacers



#### FEATURES

- Round and hexagonal profiles.
- Aluminum brass, steel, stainless steel, nylon and phenolic.
- More than 40 metallic finishes.
- Lengths from 3/32" to 2".
- Diameters from 1/8" to 3/4" with clearance holes from .064" to .505".
- Also available as standard parts in metric dimensions.

Used for applications requiring close control of dimensions, such as PCB mounting, these spacers come in a variety of outside dimensions and lengths. In addition to standard models, swage configurations are available to accommodate circuit boards with thicknesses from 1/32" to 1/4".

### Standoffs



#### FEATURES

- Internal thread styles.
- Round, hex and square profiles.
- Aluminum, brass, steel, stainless steel and nylon.
- Threads from 2-56 to 5/16-18.
- Lengths from 3/32" to 10".
- Diameters from 1/8" to 5/8".
- Also available as standard parts in metric dimensions.

The basic standard for PCB mounting, standoffs are available in round, hex and square styles with regular and swaged ends. Swages include plain and knurled shanks and front, back or front and back faced knurls. They are available in a wide variety of materials and finishes for every application.

### Jack Screws



#### FEATURES

- Standard design hex jack screws.
- Supplied with washers and nut.
- Material: steel with zinc plate per ASTM-B-633 (yellow chromate).
- Thread lengths from 3/16" to 3/4".
- Body diameter: 3/16" hex.
- Body length: 3/16"; threads 4-40.
- Also available as standard parts in metric dimensions.

Primarily used to secure D-type cable connectors in computer and other electronic equipment, standard 3/16" hex jack screws come as a complete set including two flat washers, one lock washer and a nut. They meet all the important industry specifications and can be customized for your application.

### Precision Shoulder Screws



#### FEATURES

- Slotted and socket heads available.
- Brass, steel, stainless steel.
- Threads from 4-40 to 3/8-16.
- Shoulder lengths from .1250" to 1.500"; shoulder diameters from .1245" to .4995".
- Head diameters from 1/4" to 5/8".
- Also available as standard parts in metric dimensions.

Useful as a precision spacer and bearing surface for a wide variety of applications, shoulder screws are manufactured with exacting tolerances (shoulder diameter: +.000/-0.001; shoulder length: +.002/-0.000). Undercuts on each side of the shoulder assure perfect seating for precise low friction assembly.

## Thumb Screws



### FEATURES

- Washer face, plain and push styles.
- Aluminum, brass, steel and stainless steel.
- More than 40 metallic finishes.
- Threads from 4-40 to 1/4-20.
- Lengths from 1/2" to 2-1/2".
- Head diameters from 3/16" to 1/2".
- Also available as standard parts in metric dimensions.

Thumb screws add the finishing touch to front panels or other equipment and offer the ease of no-tool assembly and disassembly for many applications. These components have easy-to-grip diamond knurl head surfaces plus a choice of materials and finishes that will complement any design.

## Male-Female Standoffs



### FEATURES

- Round and hex profiles.
- Aluminum, brass, steel, stainless steel and nylon.
- More than 40 metallic finishes.
- Threads from 2-56 to 5/16-18.
- Lengths from 5/32" to 10".
- Diameters from 3/16" to 1/2".
- Also available as standard parts in metric dimensions.

Used for printed circuit board mounting and other applications requiring close control of dimensions, such as PC/104 modules, male-female standoffs are available in a variety of materials, finishes, lengths and diameters. Male-female models come in round and hex profiles. A male-male standoff also is offered.

## Circuit Board Supports



### FEATURES

- Fifty-six different PCB support components include standoffs, spacers, adhesive base supports, threaded and snap-on, blind-hole, flexible hinge, edge/corner and many others.
- Materials include three different nylons, a flame-retardant nylon, polycarbonate and CPVC.

Inexpensive plastic circuit board supports are used extensively to mount small, non-critical PCBs in many types of consumer and commercial electronic equipment. With easy no-tool insertion and removal, this wide range of available support components provides a complete selection for all applications.

## Handles & Ferrules

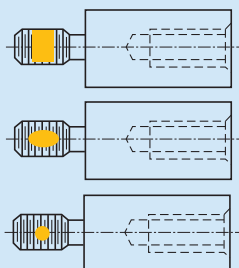


### FEATURES

- Round, rectangular and oval profiles.
- Fixed, offset, 2- and 3-position, free-fall and infinite position styles.
- Aluminum, brass, steel, stainless
- More than 40 metallic finishes.
- Powder-coating in many colors.
- Lengths from 3/4" to 7".
- Also available as standard parts in metric dimensions.

Eleven attractive and functional handle lines available in an extensive selection of sizes, materials, metallic finishes and a variety of powder-coated colors provide the right handle for applications ranging from rack-mounted equipment to stylish carrying cases. In addition, a choice of handle ferrules is offered to reinforce and complete the installation.

## Thread-Locking Products



### FEATURES

- Make threaded fasteners of all sizes and configurations self-locking and self-sealing.
- Use with both male and female threads.
- Automotive and military approved.
- Five different products to satisfy the needs of every application.

The ND family of factory pre-applied products is completely dry, fused to the fastener and requires no curing time after installation. ND Patch®, ND 360° Ring-Patch® and ND Pell-It® provide locking, sealing and are reusable. ND Microspheres® is an affordable alternative to micro-encapsulated adhesives; ND Vibra-Tite® keeps any fastener from loosening even under extreme vibration.



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**Want the Complete Story?  
Request RAF's Comprehensive Catalog**

The industry's most complete line of electronic hardware components is detailed in our new 352-page catalog. It provides engineering details on RAF's growing family of electronic hardware products and includes 32,000 new part numbers, additional standard length standoffs and spacers, a new section on thread-locking products and handy engineering data.

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