



# SKYCHARGE

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## CherryMAX® Rivet CR3212-6-09

CR3212-6-09 is a 3/16" diameter high-strength blind rivet from the CherryMAX® series. Designed for extended grip aerospace applications, it features a 100° flush countersunk head and a mechanically locked stem for secure, blind-side installation.

### Basic Specifications

- Shank Diameter: 3/16 inch ( $\approx 0.187$  inch)
- Grip Range: 0.501 – 0.562 inch
- Overall Length: 0.812 – 0.832 inch
- Head Diameter:  $\approx 0.344$  inch
- Head Height:  $\approx 0.062$  inch
- Head Style: 100° flush countersunk
- Sleeve Material: Aluminum alloy 5056
- Mandrel Material: Alloy steel 8740, cadmium plated
- Standards Compliance: NAS9302B, MS20600, MIL-SPEC (AS), BACR15FR6
- Manufacturer: Cherry Aerospace, USA.

### Material Thickness Guidelines

- Recommended for material stack: 12.73 – 14.3 mm
- Use CR3212-6-08 for thinner assemblies
- Use CR3212-6-10 for thicker assemblies.

### Hole and Tooling

- Recommended Hole Diameter: 0.192 – 0.195 inch
- Compatible Tools: Cherry G747, G83, G84, G704B or equivalent
- Minimum Countersink Depth: 0.050 inch
- Head Seat Radius: 0.130 – 0.150 inch
- Installation Air Pressure: 85 – 90 psi
- Typical Installation Time:  $\leq 2.1$  seconds.

## Key Features

- Flush 100° countersunk head for smooth aerodynamic finish
- Blind-side installation — no access required to reverse side
- Mechanically locked stem with clear audible “click”
- Mandrel fully retained inside the body — no exposed tail.

## Performance

Shear Strength: up to 68,000 PSI

Tensile Strength: up to 95,000 PSI

Operating Temperature Range: -65°F to +250°F (-54°C to +121°C).

## Marking and Coating

- Sleeve Finish: anodized (silver) or chromate (gold)
- Mandrel Finish: cadmium-plated, silver-gray
- Typical Markings: CR3212-6-09, AF3212-6-09, NAS9302B-6-09
- Note: Always confirm by part number — color is not a reliable identifier.

## Installation Notes

Slight free play before setting is acceptable

Hole diameter must be precisely 0.192–0.195 inch

Do not use lubricants — may interfere with stem locking

Click sound confirms full stem lock

Stem must be flush with sleeve within  $\pm 0.005$  inch.

## Advantages

- High-strength blind rivet for long grip aerospace joints
- Flush, clean surface after installation — no exposed stem
- Performs reliably in elliptical or slightly oversized holes
- Certified to NAS, MS, MIL, and BAC aerospace standards

**Note:** This technical information is based on the official documentation provided by Cherry Aerospace and is intended solely for reference in product selection and specification.