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CherryMAX® Rivet CR3212-6-11

CR3212-6-11 is a high-strength 3/16" diameter blind rivet from the CherryMAX® series, designed for structural aerospace applications requiring extended grip range and single-sided access. Featuring a 100° flush countersunk head and a mechanically locked stem, this rivet provides durable, vibration-resistant fastening in critical assemblies.

Basic Specifications

- Shank Diameter: 3/16 inch (≈0.187 inch)
- Grip Range: 0.626 – 0.687 inch
- Overall Length: 0.812 – 0.832 inch
- Head Diameter: ≈0.344 inch
- Head Height: ≈0.062 inch
- Head Style: 100° flush countersunk
- Sleeve — Aluminum alloy 5056, anodized or chromate conversion coated
- Mandrel — Alloy steel 8740, cadmium plated
- Standards Compliance: NAS9302B, MS20600, MIL-SPEC (AS), BACR15FR6
- Manufacturer: Cherry Aerospace, USA.

Material Thickness Selection Guidelines

- Recommended for material stack thickness between 15.9 – 17.45 mm
- Use CR3212-6-10 or shorter variants for thinner stack-ups
- Use CR3212-6-12 or longer variants for thicker structures
- Compatible with pneumatic tools: Cherry G747, G83, G84, G704B, or equivalents.

Part Identification and Marking Structure

- CR — CherryMAX series
- 32 — Rivet type
- 12 — 100° flush head configuration
- 6 — Nominal shank diameter 3/16 inch
- 11 — Length code for 0.626 – 0.687 inch grip range.

Key Features and Installation Characteristics

- Flush 100° countersunk head ideal for aerodynamic surface requirements
- Recommended hole diameter: 0.192 – 0.195 inch
- Mechanically locking stem with audible and tactile "click"
- Mandrel remains fully retained inside the sleeve.
- Supports blind installation without backside access.

Coating and Visual Identification Notes

- Sleeve: gold (chromate) or silver (clear anodized)
- Mandrel: cadmium-plated, silver-gray color
- Typical markings: CR3212-6-11, AF3212-6-11, NAS9302B-6-11
- Always verify the part number — color may vary by finish.

Additional Technical Characteristics

- 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)
- Minimum Countersink Depth: 0.050 inch
- Head Seat Radius: 0.130 – 0.150 inch
- Installation Air Pressure: 90 psi nominal
- Typical Installation Time: ≤ 2.1 seconds.

Practical Notes from Technician

- Slight play before installation is acceptable
- Ensure precise hole size: 0.192–0.195 inch
- Do not apply lubricants — can affect stem locking
- Use controlled force in composite materials
- Tools must be clean and properly maintained
- Minimum air pressure for reliable setting: 85 psi
- Audible "click" confirms proper stem engagement
- Stem tail must be flush with sleeve surface within ±0.005 inch.

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.