

The most important thing we build is trust



Applications

- Towed Array Cable Cutter designed to cut a 1¼ inch (3.18 cm) diameter stainless steel cable for emergency release.
- Antenna Cutters.
- Cable Cutter for helicopter winches.
- Cutters for flight termination and underwater applications.

Physical Specifications

- Application specific design.
- Custom-configured according to cable size or hardness of the material to be cut.
- Removable anvil.

Performance Characteristics

- Non-contaminating.
- Designed to contain combustion products.
- Designed to MIL specs to assure high reliability.
- Fully qualified.
- EMI and HERO tested.

The Cable Cutter uses explosive actuation transferred into linear motion to apply high kinetic energy which displaces the cutter blade. The moving cutter then severs the cable material and concludes against the anvil. This allows for an instantaneous release of the cable material.

The cutter assembly is totally machined and does not require welding. The anvil is removable. The cutter blade is installed into the cutter body to a specific depth. Upon initiation, pressure is released into the free volume above the blade. The pressure created overcomes the mechanical device holding the blade in the proper prefire position, ensuring “snap” acceleration of the blade.

During actual operation, the assembly produces a shock pulse of approximately one millisecond. This energy is transferred into the cutter blade forward motion. The gap between the cutter blade and the cable material further allows the cutter blade to accelerate to its maximum speed before decelerating at the anvil where it “locks” into place. The entire firing sequence, from current application to complete cable cutter takes less than 10 milliseconds.

Cage Code 62323

For further information please contact:

Cobham Life Support
10 Cobham Drive
Orchard Park, NY 14127 USA

Tel: +1 (716) 662 0006

Fax: +1 (716) 662 0747

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