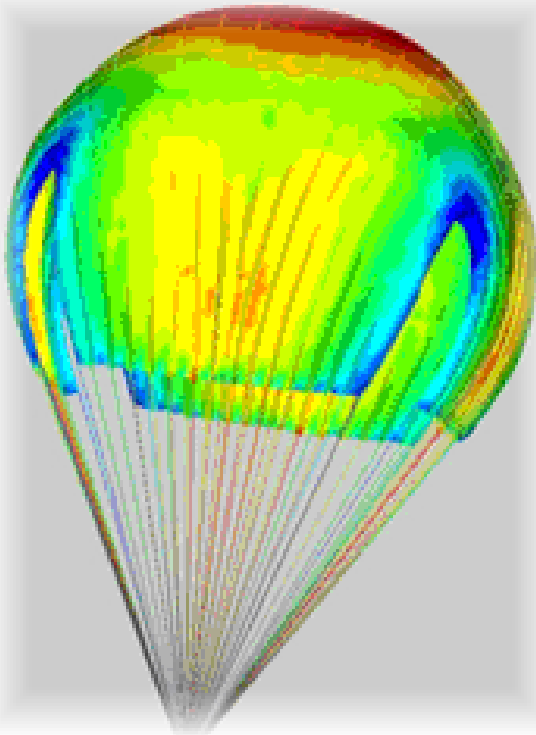


# ALVADS

## ADVANCED LOW VELOCITY AERIAL DELIVERY SYSTEMS

The ALVADS system is composed of a canopy capable of carrying loads of up to 5,000 lb. Multiple canopies can be grouped together to carry loads of up to 15,000 lb. The deployment altitude for the ALVADS is 500 ft above ground level (AGL) at airspeeds of 140 to 150 knots indicated airspeed (KIAS) in winds up to 21 knots.

The low deployment altitude of the ALVADS system improves survivability of the air crew. In addition, matching the 500 ft altitude of the T-11 troop parachute system eases mission planning requirements and eliminates conflicting airspace requirements when dropping personnel and equipment. The 500 ft deployment altitude also reduces load dispersion on the drop zone.



The canopy used for the ALVADS system is a highly modified and refined version of the quasi-cruciform planform parachute, which is a proprietary, patented canopy design that has been successfully adapted for the XT-11 parachute. The XT-11, or the Advanced Tactical Parachute System (ATPS) is the replacement to the T-10 troop parachute.

The ALVADS canopy has been specifically designed for ease of manufacturing and maintenance. The center of each canopy consists of four crown panels. A damaged panel can be quickly replaced and the canopy returned to service, enhancing the availability of airdrop assets.

This data sheet is for information only and shall not form part of a contract

# ALVADS

## Performance Specifications

### Payload Capacity

- Single Load 4,250 lb
- Cluster - 2 Load 8,500 lb
- Cluster - 3 Load 12,000 lb
- Cluster - 4 Load 15,500 lb

### Performance Characteristics:

- Single Chute Descent Rate at 4,250 lb - 25 fps
- Single Chute Required Opening Altitude - 500 ft

### Dimensions:

- Single Canopy Packed For Use - 15 in x 32 in x 52 in
- Crown Dimension - 60 ft x 60 ft
- Arm Dimension - 60 ft x 27 ft
- Length of Suspension Line - 51 ft
- Length of Riser Assembly - 10 ft
- Cubic feet (packed for use) 14.4 ft<sup>3</sup>
- Reefing Line Length - 16 inches (finished)

### Materials:

- Reefing Line Material - Cord, Nylon, 550 lb, Type III
- Gore Material 1.9 oz Diamond Ripstop
- Suspension Line - 1000 lb nylon
- Riser Assemblies - 8



LVADS 040208

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