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# CA-3018, AS-1735/SRC OMNIDIRECTIONAL AROUND-THE-MAST ANTENNA

Model CA-3018 (AS-1735/SRC) is a high-power, broadband, ultra-high frequency (UHF) antenna. It provides vertically polarized, omnidirectional coverage over the 225–400 megahertz frequency band. The unique design allows for installation on existing Navy ship masts without degrading its electrical performance. The unit consists of four broadband radiating elements mounted equidistant from a central mast that are equally spaced from one another. They are fed in-phase through an integral corporate feed system to produce omnidirectional azimuth coverage.

The standard antenna configuration is intended for use on masts ranging from 4 to 11 inches in diameter. It is fabricated in two sections, using weatherproof breakaway flanges for simple, rapid installation. Mounting adaptors (CA-3230 Series) are available to meet customers' specific mast requirements. A modification kit, CA-3260, is also available for special applications where the mast diameter exceeds 11 inches. This kit, which increases the separation between the two antenna sections, is useful for mast diameters ranging from 11 to 15 inches.

Prime consideration has been given to providing a rugged, weatherproof, high-performance antenna capable of prolonged operation in severe shipboard environments. The inherent design provides a high-capacity drain path to ground for lightning protection and to prevent static-charge buildup. A balun feed system and isolation traps limit radio-frequency current flow on the central mast, preserving optimal pattern characteristics. CA-3018 has been fully qualified to meet MIL-S-901C for Grade A shock, MIL-S-167, Type I Vibration and the service conditions of MIL-E-16400F for Class 2 equipment.

ELECTRICAL	
Frequency range	225–400 MHz
VSWR	1.8:1 max
Gain	+2 dBi
Impedance	50 ohms
Polarization	Vertical
Azimuth coverage	Hemispherical
Zenith coverage	Receive only
MECHANICAL	
Input connector	Type LC receptacle
Weight	31 lbs
Finish	Grey enamel



## KEY FEATURES

- > Rugged design to survive shipboard environments
- > Flexible design for use on masts from 4 to 11 inches in diameter
- > Modification kit available for masts exceeding 11 inches
- > Military qualified for Class 2 type equipment

For further details and specifications, contact the factory at [antenna.info@L3Harris.com](mailto:antenna.info@L3Harris.com)

### CA-3018, AS-1735/SRC Omnidirectional Around-The-Mast Antenna

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