

AUTHORIZED USA **DISTRIBUTION BY:**

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cyntony AD-18/CF-388

The antenna AD-18/CF-388 is VHF "center-fed" type wideband mobile VHF antenna for frequency range from 30 to 88 MHz, mainly intended for use in heavy duty mobile applications. The antenna is composed of three main parts: antenna base, lower and upper radiating element. The antenna base is made of aluminum and durable plastic materials. Inside the base is the matching circuitry and (optional) GPS antenna. Stainless steel spring absorbs the shocks and the vibrations, in addition protects the antenna against impacts. Both radiating elements are made of composite materials enable outstanding strength and roughness even in hardest conditions of use. The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) circle which complies with NATO standard. Different base plate dimensions are available on request. The antenna radiator is painted with military green (RAL-6014) two-component UV resistant paint. Other colors are available on request.

ELECTRICAL SPECS - VHF:

Frequency range Impedance **VSWR** Gain Polarization Maximum power Connector

ELECTRICAL SPECS - GPS:

Frequency range Impedance VSWR Polarization Gain (LNA) Noise fig. Power supply Connector

MECHANICAL SPECS:

Height Weight Max. high voltage rating

Design

Wind rating Color

ENVIRONMENTAL SPECS:

High Temperature - Storage High Temperature - Operating Low Temperature - Storage Low temperature - Operating Humidity Solar radiation

Rain Icing/Freezing Rain Sand and Dust Vibration

Shock-Transit Drop Contamination by Fluids

Oak-beam test **EMP Protection**

30 - 88 MHz 50 ohms < 3,5 -3 .. +1 dBi 100 W CW

N female (BNC female optional)

L1 1575.42 +/- 10 MHZ or L1/L2 1575/1227 MHz

50 ohms < 2 RHC 26 dB

3 - 5 V DC (max. 10 mA)

SMA female

Center-fed (VHF) Antenna

2955 mm 3.6 ka 16 kV

45 m/s (160 km/h) MIL Green

MIL-STD-810G: Method 501.5: Proc. I: +75 °C for 96h MIL-STD-810G; Method 501.5; Proc. II; +65 °C for 16h MIL-STD-810G; Method 502.5; Proc. I; -55 °C for 96h MIL-STD-810G; Method 502.5; Proc. II; -40 $^{\circ}$ C for 16h MIL-STD-810G; Method 507.5; 10 cycles of 24 h; 95% MIL-STD-810G; Method 505.5; Proc. I; 3 cycles

MIL-STD-810G; Method 506.5; Proc. III MIL-STD-810G; Method 521.5

MIL-STD-810G; Method 510.5; Proc. I and II MIL-STD 810G, Method 514.6; Proc. I MIL-STD-810G, Method 516.6, Procedure IV MIL-STD-810G, Method 504.1, Procedure II (Fuels,

504.1-I.) 20 hits on 100 mm oak beam at speed 25 km/h

Hydraulic Oils and Lubricating Oils acc. to the Table

MIL-STD 461E RS105

VERSIONS:

AD-18/CF-388-N: VHF antenna with N female connector

AD-18/CF-388-G-N: combined VHF (N female) and GPS L1 (SMA female) antenna

AD-18/CF-388-G2-N: combined VHF (N female) and GPS L1/L2 (SMA female) antenna

AD-18/CF-388-BNC: VHF antenna with BNC female connector

AD-18/CF-388-G-BNC: combined VHF (BNC female) and GPS L1 (SMA female) antenna AD-18/CF-388-G2-BNC: combined VHF (BNC female) and GPS L1/L2 (SMA female) antenna



