

The antenna AD-18/CF-3108 is VHF "center-fed" type wideband mobile VHF antenna for frequency range from 30 to 108 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.

customer attuned

AUTHORIZED USA

DISTRIBUTION BY:

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ELECTRICAL SPECS - VHF: Frequency range Impedance VSWR Gain Polarization Maximum power Connector	30 - 108 MHz 50 ohms < 3,5 -3 +1 dBi vert. 100 W CW N female (BNC female optional)
ELECTRICAL SPECS - GPS: Frequency range Impedance VSWR Polarization LNA Gain / Voltage / Current Noise fig. Connector	L1 1575.42 +/- 10 MHz 50 ohms < 2 RHC 18 dB (+/- 2 dB) / 5 V / 19 mA 16 dB (+/- 2 dB) / 3.5 V / 13 mA 10 dB (+/- 2 dB) / 2 V / 7 mA <1.5 dB SMA female
MECHANICAL SPECS: Design Height Weight Max. high voltage rating Wind rating Color	Center-fed (VHF) Antenna 2955mm 3.6 kg 16 kV 45 m/s (160 km/h) MIL Green
ENVIRONMENTAL SPECS: High Temperature - Storage High Temperature - Operating Low Temperature - Operating Humidity Solar radiation Rain Icing/Freezing Rain Sand and Dust Vibration Shock-Transit Drop Contamination by Fluids Oak-beam test	MIL-STD-810G; Method 501.5; Proc. I; +75 °C for 96h MIL-STD-810G; Method 501.5; Proc. I; +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 °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. I; 3 cycles MIL-STD-810G; Method 506.5; Proc. III MIL-STD-810G; Method 510.5; Proc. I and II MIL-STD-810G; Method 514.6; Proc. I 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, Hydraulic Oils and Lubricating Oils acc. to the Table 504.1-I.) 20 hits on 100 mm oak beam at speed 25 km/h
EMP Protection	MIL-STD 461E RS105



cyntony AD-18/CF-3108

Rev. A

VERSIONS:

AD-18/CF-3108-N: VHF antenna with N female connector AD-18/CF-3108-G-N: combined VHF (N female) and GPS L1 (SMA female) antenna AD-18/CF-3108-BNC: VHF antenna with BNC female connector AD-18/CF-3108-G-BNC: combined VHF (BNC female) and GPS L1 (SMA female) antenna

