

LB3088 V3L

VHF manpack folding whip, monopole, 2.9 m, 30–88 MHz

Tactical Antennas: Handheld and Manpack



The LB3088 V3L is a folding whip antenna that is instantly erectable and is designed for use in the 30 to 88 MHz band.

This particular antenna is intended for mounting on new generation manpack VHF combat radios, and particularly on the F@STNET.

Construction

The antenna sections are manufactured from SPIRGLASS® fibreglass reinforced plastic (epoxy resin) inside which a plated conductor is encased, this is in accordance with a patented Comrod process.

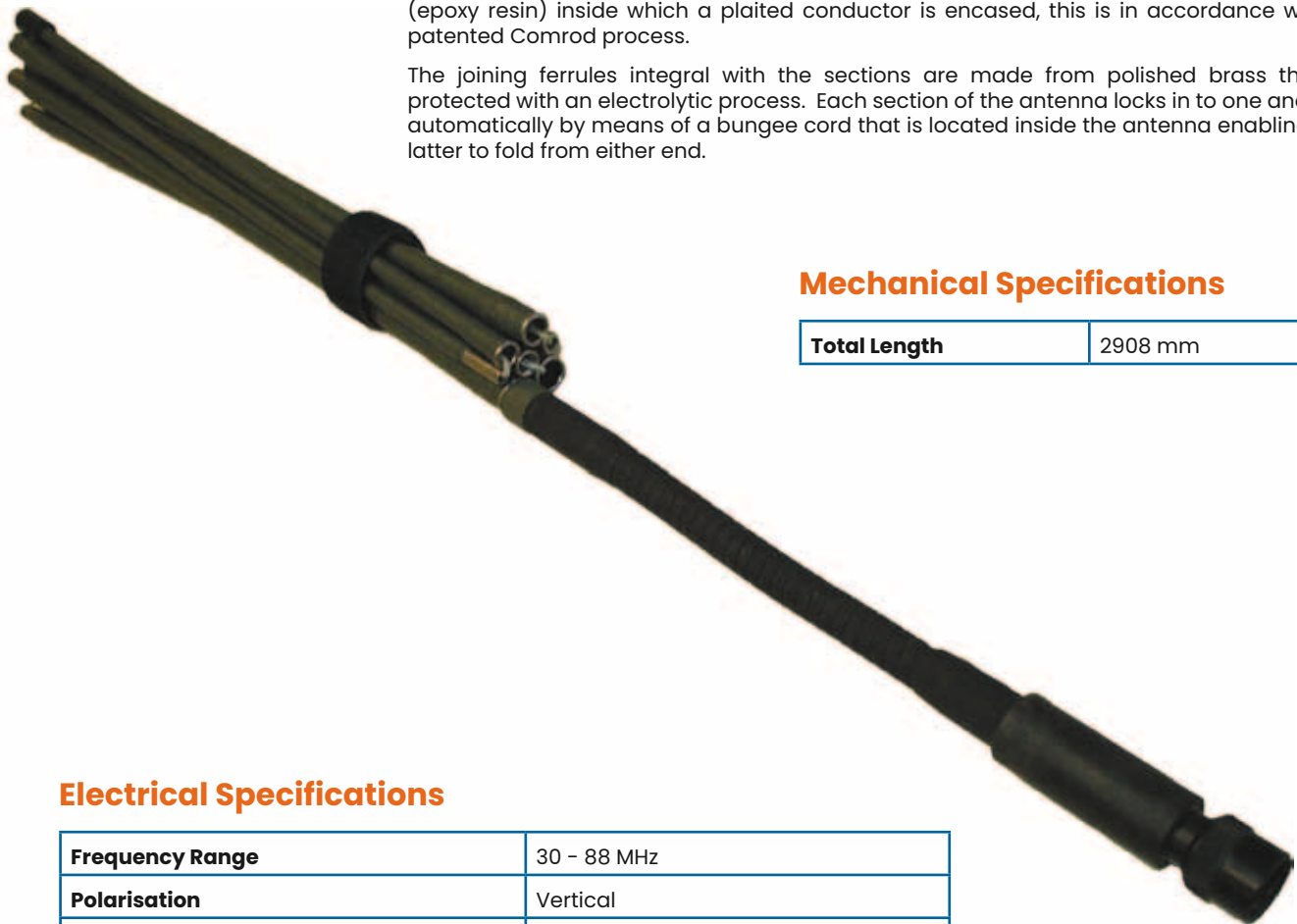
The joining ferrules integral with the sections are made from polished brass that is protected with an electrolytic process. Each section of the antenna locks in to one another automatically by means of a bungee cord that is located inside the antenna enabling the latter to fold from either end.

Mechanical Specifications

Total Length	2908 mm
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Electrical Specifications

Frequency Range	30 – 88 MHz
Polarisation	Vertical
VSWR	
• Radio on the Ground (Dry Ground)	< 3.5
• Radio on Manpack	< 3.1
Gain (Radio on Manpack)	- 6 dB to + 1 dBd
Permissible Power	> 20 W (- 40°C to + 71°C)
Input Impedance	50 Ω
Connection	BNC compatible with F@STNET radio



Environmental Characteristics

Tests on the LB3088 V3L have been performed according to climatic and environmental standard MIL-STD-810E and GAM-T13. The below table represents the general information about the results and qualification tests.

Environmental Condition	MIL-STD-810E (Method)	GAM-T13 (Fascicules)
Low Air Pressure	500.3	05-01
Dry Heat	501.3	02-02 et 02-01
Low Temperature	502.3	01-02 et 01-01
Thermal Shock	503.3	07-01
Solar Radiation	505.3	09
Rain	506.3	12
Humidity	507.3	03-01
Salt Fog	509.3	04-01
Sand and Dust	510.3	18
Immersion	512.3	15
Ice/Icing Rain	521.1	22
Contamination by Fluids	Specification 46 245 810 - 532	



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Environmental Conditions	MIL-STD-810E (Method)	GAM-T13 (Fascicules)
Sinusoidal Vibrations	514.4	41-02
Mechanical Shocks	516.4	43
Free Drops	516.4	46
Bumps	514.4	44

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All specifications are subject to change without notice

The information contained herein is for reference only and does not constitute a warranty of performance

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