LB3088/V3L

Broadband Manpack VHF Folding Whip Antenna

GENERAL DESCRIPTION

Folding whip antenna, instantly erectable, for use in 30 to 88 MHz band.

APPLICATION

Antenna intended for mounting on new generation manpack VHF combat radios, and particularly on the F@STNET.

CONSTRUCTION

The antenna sections are manufactured from SPIRGLASS® glassfibre reinforced plastic (Epoxy resin) inside which a plaited conductor is encased, in accordance with a patented COMROD process.
The jointing ferrules integral with the sections are made of polished brass protected with an electrolytic process.
The sections lock into each other automatically by means of a bungee cord located inside the antenna which enables the latter to fold from either end.

REFERENCES

LERC name	:	LB3088 V3L
LERC reference	:	F3435-76435
THALES reference	:	ANT-211

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ELECTRICAL SPECIFICATIONS

Frequency range	30-88 MHz
Polarisation	Vertical
V.S.W.R. Radio on the ground (dry ground) Radio on man back	 < 3.5 < 3.1
Gain (Radio on man back)	-6dB to +1dBd
Permissible power	> 20 W (-40°C to +71°C)
Input impedance	50 Ω
Connection	BNC compatible with F@STNET radio

MECHANICAL SPECIFICATIONS

Total Length	2908 mm

ENVIRONMENTAL CHARACTERISTICS

Tests are performed according to climatic and environmental standard MIL STD-810E and GAM-T13. The following table presents general information about performed qualification tests. More details are available upon request.

Environmental condition	MIL-STD 810 E 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 chock	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	

MECHANICAL ENVIRONMENT

Tests are performed according to standard MIL STD-810E. The following table presents general information about performed qualification tests. More details are available upon request.

Environmental condition	MIL-STD 810 E Method	GAM-T13 Fascicules
Sinusoidal vibrations	514.4	41-02
Mechanical shocks	516.4	43
Free drops	516.4	46
Bumps	514.4	44