

711 RB

Ground plane antenna 73 – 79,200 MHz

DESCRIPTION

Wide band ground plane antennae for use in the 68 – 87,5 MHz frequency band.

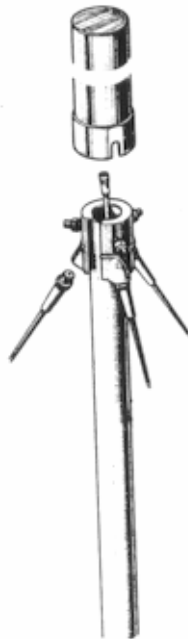
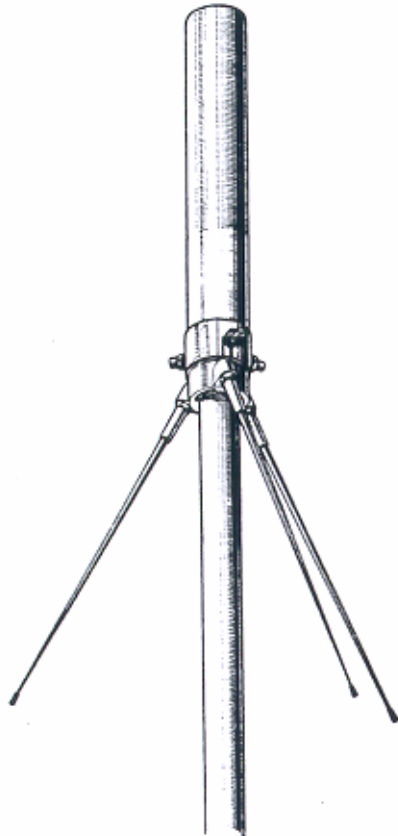
APPLICATION

Antennae intended for base stations of «gendarmerie nationale» (France).

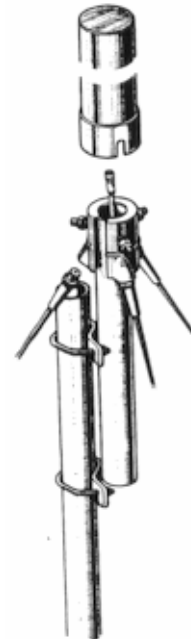
INSTALLATION

The antenna can be installed directly on a metal or insulating ϕ 40mm mast.

A DF 40 fixation (included) allows the fixation of the antenna on a ϕ 40 – 50 mm mast.



Installation on mast ϕ 40mm



Installation with DF40

Nota : The 711RB antenna is different from the 711R (AN-305B) by a central mount loading (only one mount instead of two) and with the ground plane diameter. This new antenna is radioelectrically more performant than the old 711R Antenna.

Still, the spare parts of the 711RB are not mechanically compatible with the 711R pieces (AN 305B).

LERC S.A.

BP 10119 – 59732 SAINT AMAND LES EAUX CEDEX – France

Tel: +33 3.27.22.85.50 – Fax: +33 3.27.22.85.55 – e-mail: commercial@lerc.fr

Internet: www.lerc-composites.com



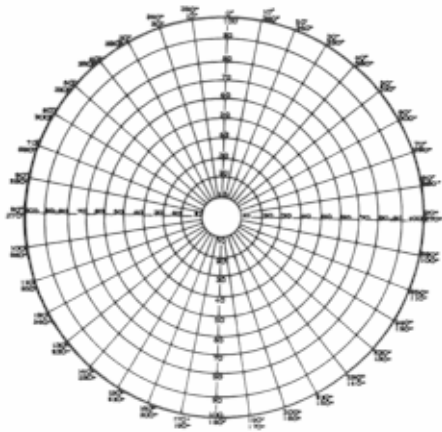
CONSTRUCTION

The EA 64 B radiating section is made up of plated copper braid encased in a cylindrical tube manufactured from glassfibre reinforced resin, in accordance with the SPIRGLASS* process. The EA 65 A antenna body, which includes the connection, can be dismantled (LERC patent) and is manufactured from moulded, nickel-plated, aluminium bronze; the nuts and bolts are of stainless steel and the supporting tube (DF40) of galvanized steel.

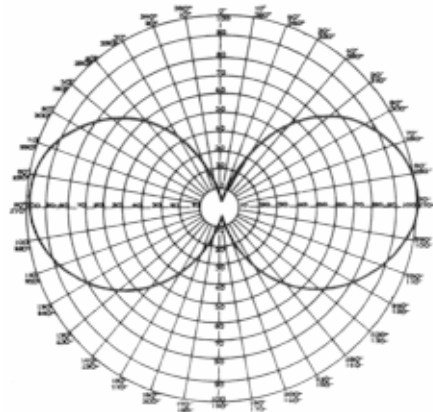
Three EA 66 B radials made of glass-fibre reinforced resin form the ground plane.

RADIOELECTRICAL CHARACTERISTICS

- | | |
|--------------------------------------|--|
| - Frequency range: | 73-79,200 MHz |
| - VSWR: | See graph. |
| - Impedance: | 50 Ohms |
| - Gain over the dipole: | 0dBd (2dBi) |
| - HF power: | 300 W |
| - Polarisation: | Vertical |
| - Radiation Pattern: | H Plane: Omnidirectional
V Plane: See diagram |
| - Protection against static charges: | All metal parts are grounded |
| - Connection: | UG 58 A/U female N connector. |



H Plane



V Plane

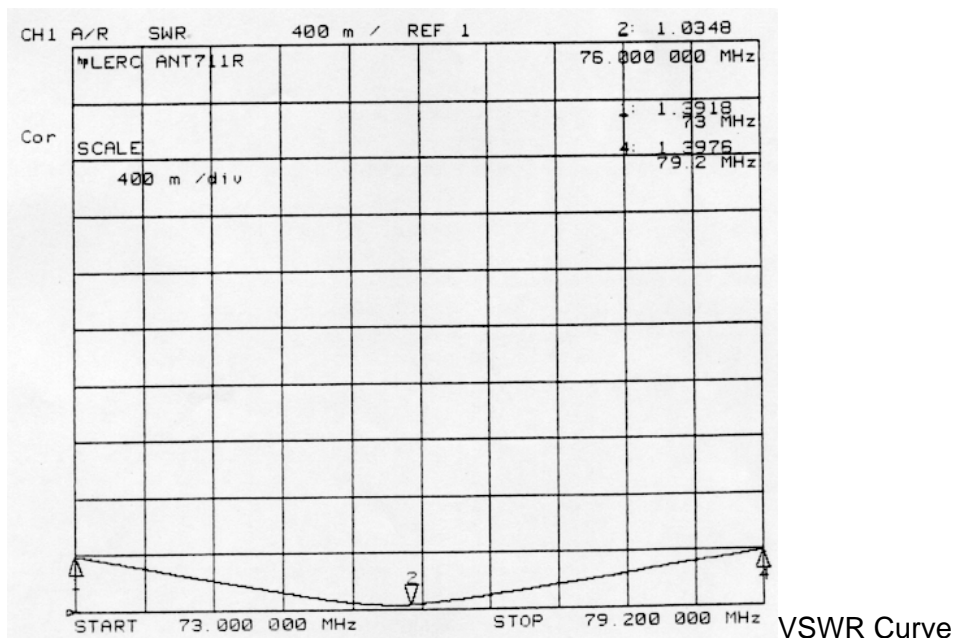
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ENVIRONMENTAL CHARACTERISTICS

- Résistance à l'humidité: RH 95% acc. to GAM EG 13 method 03
- Résistance au brouillard salin: 96 hours acc. to GAM EG 13 method 04
- Permissible Windspeed: 160 km/h
- Resistance to cold: -40°C acc. to GAM EG 13 method 01
- Resistance to heat: +55°C acc. to GAM EG 13 method 02

MECHANICAL CHARACTERISTICS

DIMENSIONS

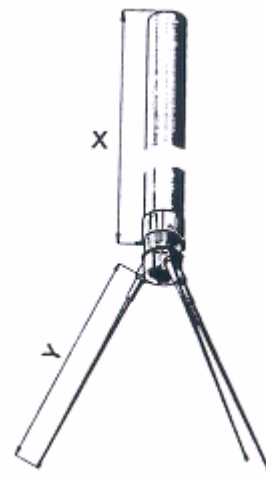
Diameter (radiating section)	63 mm
Maximum length X	765 mm
Maximum length Y	917 mm
Wind loading at 160 km/h (as pers DIN 1055)	12, daN

MASS

Less than 3 kg

COLOUR

Standard colour : grey



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