



**RADIO FREQUENCY  
INDUSTRIES (PTY.) LTD.**

*"Simply The Best"*

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## MA-COMPACT-400 SMART-COMPACT MOBILE ANTENNA (390-470MHz.)



The SMART-COMPACT mobile antenna is designed to be more suitable to the modern motor vehicle of today. The loading coil is a very slim 10mm in diameter on a short whip. Materials used are of the same high quality as is the case in the normal Scorpion mobile range and will ensure a long life in the harsh African climate. The base is the same as used on the Scorpion range and offers the same advantages, i.e. two grub screws holding the whip and 5 Meters of high quality RG58 feeder cable. All stainless steel used is 17-7PH that has over the years proven to be the best to use in mobile applications. Plating on the base and adaptors is of the best quality. The cable is sealed at the base for moisture penetration. The grub screws used is of the best quality to prevent stripping when screws are tightened. All mobiles are delivered with a cutting chart to provide an **indication** of the whip length at required frequencies. The Scorpion range of antennas are guaranteed to fit on 5mm thick material and is therefore the obvious choice for off-road vehicles where the antenna needs to be mounted on roll bars or roof carriers where the material is thicker than normal vehicle body panels. The Scorpion antennas provide very low VSWR readings and therefore gives very good all round performance and best value for money. All the antennas in the Scorpion range fits on the attractive magnetic mounts supplied by RF Industries.

### NOTES WHEN DETERMINING LENGTH OF MOBILE ANTENNAS:

When determining the lengths of mobile antennas please take in to consideration the size of the ground plane. The rule is the smaller the ground plane the longer whip must be. When working with small ground planes the VSWR may be higher than the specifications indicated on this document. Positioning of the antenna plays a crucial role and again the length and specifications may change depending on where the antenna is mounted. When magnetic mount bases are used, add 10 to 15% to the indicated length to obtain acceptable VSWR.

SPECIFICACATIONS	MA-COMPACT-400	
FREQUENCY COVERAGE	IN MHZ.	390-470
BAND WIDTH	IN MHZ.	1
IMPEDANCE	IN OHMS	50Ω
POWER	IN WATT	50
LENGTH	IN mm.	303
MOUNTING HOLE SIZE	IN mm.	19-20
GAIN	IN dB	UNITY
VSWR	≥THAN	≥1.5:1
WHIP MATERIAL	S/STEEL	17-7PH
MOUNTING SPECIFICATION	IN DEGREES	0/90/180/360
FEEDER CABLE LENGTH	IN METER	5MET. RG58



Manufacturers of : Two-Way Radio Antennas, Duplexers, Filters, Combiners, Splitters, Lightning protectors & other RF Products.  
 Sales and Distribution of: Two-Way Radios, Repeater Systems, Power Meters, Microphones, Power Supplies, Cables & Connectors.