



RADIO FREQUENCY INDUSTRIES (PTY.) LTD.

"Simply The Best"

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SCORPION SMART-COMPACT MOBILE ANTENNA CUTTING LENGTHS:

NOTE: LENGTH MEASUREMENTS IS FROM THE TOP OF THE WHIP CAP TO THE BODY OF THE VEHICLE.
 : ADD 10% TO OVERALL LENGTH IF A MAGNET BASE MOUNT IS USED.

MA-27 SL (26-28MHz.) (BASE LOADED - UNITY GAIN)

FREQ:	26.8	26.9	27	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28	28.1	28.2	28.3	28.4	28.5	28.6	28.7
LENGTH	1150	1147	1144	1140	1138	1135	1132	1130	1120	1110	1100	1090	1080	1070	1068	1065	1060	1050	1045	1040

MA-29SL (29-30MHz.) (BASE LOADED - UNITY GAIN)

FREQ:	28.8	28.9	29	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	31
LENGTH	1150	1145	1140	1137	1134	1132	1131	1125	1120	1115	1110	1105	1100	1095	1080	1075	1070	1065	1060	1050	1045	1040	1035

MA-40SL (35-40MHz.) (BASE LOADED - UNITY GAIN)

FREQ:	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43
LENGTH	1041	1030	1020	1005	1095	1085	1075	1060	1050	1040	1025	1010	1000	985

MA-COMPACT-60 (62.5-68MHz.) - 1/4 WAVE - UNITY GAIN)

FREQ:	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
LENGTH	920	895	870	850	820	795	780	770	760	755	750	735	720	695	685	665	650	640	630	610	600	595	590	585	580

MA-COMPACT-120 (104-144MHz.) (BASE LOADED - UNITY GAIN)

FREQ:	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
LENGTH	630	630	620	620	610	610	600	600	590	590	580	570	560	560	550	540	530	530	530	530	530	520	520	520	520

MA-COMPACT-130 (125 - 174MHz.) - 1/4 WAVE BASE LOADED - UNITY GAIN)

FREQ:	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149
LENGTH	575	570	565	565	540	535	530	520	510	500	498	496	492	490	489	488	486	485	483	482	480	479	478	476	474
FREQ:	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174
LENGTH	472	471	470	470	470	470	470	470	470	470	470	460	458	455	453	451	450	445	435	430	425	420	417	415	412

MA-COMPACT-250 (247-263MHz.) - 1/4 WAVE BASE LOADED - UNITY GAIN)

FREQ:	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270
LENGTH	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335

MA-COMPACT-400-0 (390 - 470MHz.) - CENTRE LOADED MOULDED COIL - UNITY GAIN)

FREQ:	390	393	396	399	402	405	408	411	414	417	420	423	426	429	432	435	438	451	454	457	560	463	466	469	470
LENGTH																									

MA-COMPACT-400-4 (390 - 470MHz.) - CENTRE LOADED MOULDED COIL - 4dB GAIN)

FREQ:	390	393	396	399	402	405	408	411	414	417	420	423	426	429	432	435	438	451	454	457	560	463	466	469	470
LENGTH																									

MA-XDX-DB (144-146 & 420-430MHz.) - CENTRE LOADED MOULDED COIL - UNITY GAIN ON 145 & 3dB ON 430MHz.)

This antenna is designed to work on the amateur bands in South Africa. Trim the Antenna slowly bit by bit (+/- 3mm) at a time only on the top section of the antenna until approaching the desired frequency on 144-146MHz. Normally 145.1 for repeater operation. Once the correct SWR is obtained on 144-146MHz. The antenna should resonate automatically on 430-438MHz. As well. The length of the antenna is made longer specifically to allow use on smaller ground planes or magnet mounts, therefore take care not to cut too much too soon. Cut the antenna slowly and obtain low VSWR at the bottom of the band (144MHz); then cut slowly until low VSWR on 145.1MHz.

WARNING: USE PROTECTIVE EYE WARE WHEN CUTTING WHIPS!!!!

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.