

Installation

SW1605 Roof Mounting Antenna

GSM
890-960 MHz

The SW1605 should be mounted in the centre of a metal roof for optimum performance. If roof mount antennas are mounted on the boot, fenders or near the edge of the roof "SHADOWING" or "HOLES" are caused in the antenna pattern, degrading performance. The roof mounting antenna requires a flat metallic surface (vinyl O.K.) and at least 350mm from any roof edge (the closer to the symmetrical centre of the roof the better).

Specifications:

Frequency: 890-960 MHz
Gain: Unity
Power Rating: 40 Watts continuous
Tuning: Pre-tuned at factory
Impedance: 50 Ohms nominal
Radiator: Precipitation hardened stainless steel
Mount: MB14
Connector: TNC or Mini UHF
Tuned bandwidth: Entire specified bandwidth under 1.9:1

Installing the Antenna

1. The MB14 base may be mounted from above or below the roof, in both cases a hole of 19 or 20mm is required. (20mm recommended).
2. Loosen base nut to top of thread (do not remove) and unravel cable.
3. Feed the coaxial cable through the hole and on to the transceiver via the best and most direct path.
4. Slide the sealing washer, cup and o'ring up to meet the nut.
5. Insert the "toe" of the baseplate into the hole at an angle (Fig.1).
6. The mounting boss on the base cup must locate into the drilled hole to centralise the base in the roof. Ensure the boss is located in the mounting hole and the sealing washer is properly in place then tighten the nut. Continue to tighten the nut, then recheck the boss is located properly when the base plate spikes start to "bite in". **TIGHTEN ONLY ONE TURN BEYOND HAND TIGHT.**
7. Take up any slack in the coaxial cable.
8. Fit the whip top and tighten with a spanner. **NO MORE THAN 1 1/2 TURNS BEYOND HAND TIGHT.**
9. Fit connector as per separate instructions below.

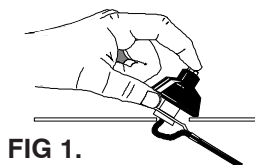


FIG 1.

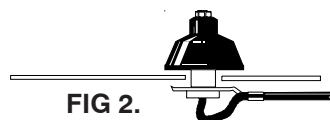


FIG 2.

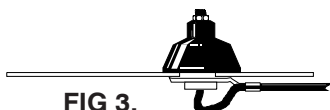


FIG 3.

Component Listing



This GSM antenna cannot be used for AMPS type cellular systems



Whip & Ferrule
M-1815

MB14 Base Section
with 5.0m Cellfoam® MB14-00-85

Connector



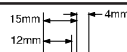
FME-101 or



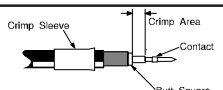
MPL-604

NOTE: Crimp tool CT5859 or HTG5859 required.

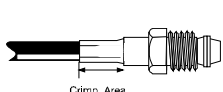
FME CRIMP CONNECTOR ASSEMBLY INSTRUCTIONS



Trim cable to dimensions shown taking care not to nick the inner conductor or the braid

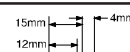
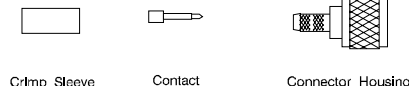


Slip crimp sleeve over cable. Place inner conductor into contact, note that the end of the contact and inner dielectric must be butting and square. Crimp with appropriate tooling.

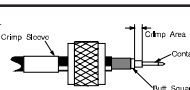


Flare outer braid and gently but firmly push the contact into the connector housing until a gentle snap is felt, indicating the contact is in place. Slip the crimp sleeve in place butting the flange against the connector housing and crimp with appropriate tooling.

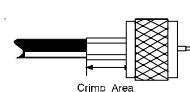
MINI UHF CRIMP CONNECTOR ASSEMBLY INSTRUCTIONS



Trim cable to dimensions shown taking care not to nick the inner conductor or the braid



Slip crimp sleeve over cable. Place inner conductor into contact, note that the end of the contact and inner dielectric must be butting and square. Crimp with appropriate tooling.



Flare outer braid and gently but firmly push the contact into the connector housing until a gentle snap is felt, indicating the contact is in place. Slip the crimp sleeve in place butting the flange against the connector housing and crimp with appropriate tooling.

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