

# Installation Instruction - SW3-871

Part Number: CM-UHF Series

## A. Introduction

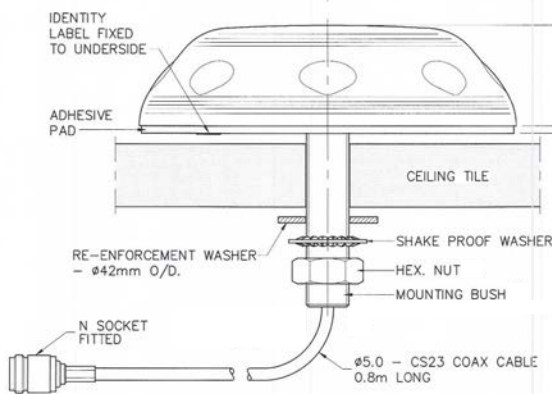
The CM-UHF range of ceiling mount antennas is available in specific versions to suit TETRA and other UHF frequency band applications. The antenna has an integral ground plane and can be fitted to a metal or non-metallic ceiling panel. The antenna is secured with a central mounting bush and a coaxial cable tail with N type socket is provided.

## B. Select A Suitable Mounting Location

The antenna has an omnidirectional pattern and should ideally be installed in the centre of the required coverage area. Note that access will be required above the mounting panel to secure the antenna and connect the coaxial cable. The antenna location should be horizontal and clear of other ceiling mounted equipment (e.g. air conditioner) – consider protrusion depth of antenna and potential height clearance issues in low ceiling areas, especially if fitted in an operational area where mechanical handling equipment is used.

## C.

Where the antenna will be fitted on a lift out ceiling panel, it may be preferable to remove the panel and mount the antenna on the panel whilst working at ground level. Mark the position for the centre fixing and make a 19mm (3/4") clearance hole. Remove the nut and washer from the mounting bush, remove the protective backing from the adhesive pad. Insert coax cable then bush through hole and apply pressure to antenna to allow the pad to adhere to the panel. Fit the washer and nut to the bush and tighten to secure. Refit the ceiling panel if applicable.



## D. Route & Terminate the Coaxial Cable

The coaxial cable type used will depend on the length required to reach the radio terminal equipment. The cable should be routed away from any existing electrical cable and secured to avoid being damaged. An N type plug should be fitted to the antenna end of the cable. A suitable connector should be fitted to the equipment end of the cable.

## E. Commission & Test

A VSWR test should be carried out – an antenna analyser is recommended for this check. The VSWR measured should fall within value stated in the product data sheet. Connect coaxial cable to antenna and carry out “on air” check or coverage test as applicable.

## F. Important Safety Notices



### RF Safety Note

For deployments using high power - the proximity of professionals and members of the public during use should be taken into account when determining output power, Expert advice may be required to comply with local laws.



### European Waste Electronic Equipment Directive 2002/96/EC

Please ensure that your old Waste Electricals and Electronics are recycled in accordance with the regulations. Please do not throw them away with your domestic rubbish as they will not be recycled.



**RoHS 2:** EU RoHS compliance is declared per **Directive 2011/65/EU** and its subsequent amendments. Homogeneous materials composing parts that are compliant with this legislation have less than 0.1% by weight each of lead, mercury, hexavalent chromium, PBB, and PBDE, and 0.01% by weight of cadmium. In situations where an exemption applies, the preceding limits, corresponding to the exempted substance(s), may be higher.

**Waiver:** This document represents information compiled to the best of our present knowledge. It is not intended as a representation or warranty of fitness of the products described for any particular purpose. This document details guidelines for general information purposes only. Always seek specialist advice when planning installations and ensure that antennas are always installed by a properly qualified installer in compliance with local laws and regulations..

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