



NICOMATIC



Miniaturization of soldered contacts *(2023/04/02 10:12:23am)*

Due to the need for miniaturization in a growing number of electronics systems, more and more designers need to overcome the lack of space with their connecting solutions. In those reduced spaces, they also need to integrate more complex functionalities. For example, some RF (radio-frequency) functionalities that need to adapt to cables with reduced diameters, typically 1.2mm called micro-wave.

Nicomatic provides solutions for this type of need with male and female HF contacts to be soldered, that can adapt to very small diameters, provide good retention and ensure a reliable signal transmission with reduced loss.

Those HF contacts **22-1312-ZZ / 22-2312-ZZ** (50 Ohm version) and **22-1312-ZZ-75 / 22-2312-ZZ-75** (75 Ohm version) are soldered on small diameter cables and ensure high reliability in harsh environments. For example Nicomatic has solved a customer constraint in a military environment where the crimped contact retention was not enough and the process difficult to repeat at assembly stage. Another example is in a satellite application where it was required to increase the retention performance but also to ease the assembly at workshop where the competency needed to be developed.

Those projects gave the opportunity to identify real needs and to implement solutions such as **instructions** available now on line, an adapted contact technology and the required tooling. Most of designers/assemblers use bigger contacts in current equipment such as RG316 cables and, so, diameters bigger to solder (2.7mm) and are more used to deal with sizes matching to these standards.

Applications are wide but can be found especially in miniature equipment, satellites, medical

equipment, and military electronics sub-assemblies. We have developed a dedicated CMM series for these markets called CMM 340.

Our know-how enables us well to support our customers by doing ourselves the soldering of contact on small diameter cables.