

# NICOMATIC Test report summary CMM Family

# **SOLDERABILITY Test**



#### I. Introduction

#### A. Purpose

The CMM connectors' family are manufactured to meet or exceed the requirements of **MIL-DTL-55302G** standard.

#### **B.** Scope

to determine the solderability of all terminations which are normally joined by a soldering operation. This determination is made on the basis of the ability of these terminations

to be wetted by solder and the predictability of a suitable fillet resulting from solder application. These procedures will verify that the pre-assembly lead finish provides a solderable surface of sufficient quality to enable satisfactory soldering.

The following data has been taken from NICOMATIC Qualification test reports QTR0944.

#### C. Conclusion

The CMM connectors' family are qualified regarding SOLDERABILITY according to MIL-DTL-55302G.

No physical damage to the termination or connectors resulting from soldering.

# II. Test Method and Requirements

### A. List of Test Samples

#### a CMM 200 Series

- 201Y50L LF male contacts Straight PCB \_ 13507
- 202Y50 LF female contacts Straight PCB \_ C14764

#### b. CMM 220 Series

- 221V50FXX LF male contacts 90° PCB 13507
- 222S50MXX LF female crimp contacts \_ C12468
- 222YL26MXX LF male contacts Straight PCB \_ C14810
- 221S26FXX LF male crimp contacts \_ 12969
- 221D00FXX-0008-3400CMM HP30 male contacts 90° PCB \_ 30-3400-CMM
- 222E00MXX-0008-4320 HP30 female straight contacts on cable \_ 30-4320
- 222Y08SXX-0004-4300CMM HP30 + LF female contacts Straight PCB \_ 30-4300-CMM + C14764
- 221S08FXX-0004-3308 HP30 + LF male contacts Straight on cable 30-3308 + 12969





- 221S06FXX-0003-3320 HP30 + LF male contacts Straight on cable \_ 30-3320 + 12969
- 222S06MXX-0003-4308 HP30 + LF female contacts Straight on cable \_ 30-4308 + C12468

#### c. CMM 320 Series

- 321C057FXX LF male crimp contacts \_ 12960
- 322C057MXX LF female crimp contact \_ C13064-P
- 321V096FXX LF male contacts 90° PCB \_ 13507
- 322Y096MXX LF female contacts Straight PCB \_ C14812
- 341D000FXX-0018-340014 HP22 male contacts 90° PCB \_ 22-3400-XX
- 342E000MXX-0018-4310 HP22 female straight contacts on cable \_ 22-4310
- 342D000MXX-0048-430014 HP22 female contacts Straight PCB \_ 22-4300-14
- 341E000FXX-0048-3310 HP22 male straight contacts on cable \_ 22-3310

## **B.** Requirements

According to MIL-DTL-55302G standard and MIL-STD-202 test procedure method 208





#### C. Test Method and Results

Flux shall be applied by a suitable method and allowed to drain for 5 to 20 seconds.

The solder shall be applied to the terminal along with the clean solder coated tip of an iron

Unless otherwise specified in the individual specification, iron temperature shall be 350°C ± 5.5°C

The termination shall be positioned so that the iron can be applied to the test surface in a horizontal position

Unless otherwise specified in the individual specification, the iron shall be applied for a period of 5 ±0.5 seconds and shall remain stationary during this period.

the connectors are subjected to soldering operation at 350°C, according to MIL-DTL-55302F standard.& MIL-STD-202 Method 208 test procedure.

No physical damage to the termination or connectors from soldering test qualification.









