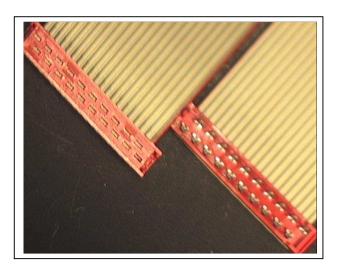
ENVIRONMENTAL TESTING LABORATORY

Job Number: E04.07.01	Project Number: 770002	Date of issue: May 2005
Description: Micro Match Resistance to leadfree wave soldering heat		Part numbers: 9-215570 Rev. N (Paddle board)

Scope: To verify resistance to soldering heat



Conclusions:

After 10 seconds exposure to a soldering temperature of 265 °C in the assembled condition, no negative effects were found on visual aspect or on termination resistance of the IDC connection.

Note: this report is valid for all Micro Match paddleboard products.

Test Specification:	Product Specification 108-19052 Rev. E.		
	Tyco Test-Spec. 109-202, R	ev. B	
Test Carried Out:	1 Expose to soldering heat 2 Visual inspection 3 Measure termination resistance of the IDC connection		
Distribution:	1 R. Verbeet 2 Doc. center 3 File Lab.		
Test Engineer: H. van Oosterhout		Requested by: R. Verbeet	
Laboratory Manager: D.M.J. Jooren.		Classification: Unrestricted	
Disposal of Samples	s: Destroyed	Report Number: 501-19094	Rev. O
Appendices:		Page 1 of 2 Pages	

ENVIRONMENTAL TESTING LABORATORY

SAMPLE DESCRIPTION

10 Cable assemblies

TEST PROCEDURES and TEST SEQUENCE

IEC 60512-1-1: Visual examination:

Test 1a The test samples were visually inspected under a stereomicroscope, at a 10x

magnification, with suitable illumination.

IEC 60512-2-1: **Termination resistance:**

Test 2a The termination resistance was measured with an open circuit voltage of

20 mVolt and a maximum current of 100 mA DC, between the solder tab and the end of the cable conductor. This includes the bulk resistance of the solder

contact and approx. 75mm of wire.

Tyco 109-202, Resistance to soldering heat:

§4 Method B Solder tails of the connector were mechanically dipped in molten solder at a

temperature of 265°C during 10 seconds. As a thermal shield, a printed circuit

board was applied.

Termination resistance:

See above

IEC 60512-11-4: Rapid change of temperature:

Test 11e The samples were subjected to a rapid change of temperature test with the

following parameters: One cycle consists of:

Upper temperature : 105°C for 15 minutes. Lower temperature : -40°C for 15 minutes.

Condition : mated. Number of cycles : 10

Termination resistance:

See above

EQUIPMENT USED

EquipmentProducerTypeSeries NbCal. DueMicro-ohmmeterKeithley58037468712-05.Climatic chamberWeiss80-200DU-ST224/1741301-06

SUMMARY OF TESTRESULTS

Visual inspection: No detrimental effects were found

Termination resistance: No termination resistances greater than $10 \text{ m}\Omega$ were found after exposure to

soldering heat and subsequent rapid change of temperature.