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Test Report Summary

HT01602

Detailed Environmental Testing of
Datamate (M80 Series) L-Tek Crimp

1. Introduction

1.1. Description and Purpose

The Harwin Datamate (M80 Series) connector is manufactured to the requirements of BS9525-F0033. The following tests were carried out to test the crimped Datamate socket contacts for insertion and withdrawal forces as well as contact resistance, by taking detailed readings all the way up to 500 cycles.

1.2. Conclusion

The following data has been collated from Harwin test report 147. The connectors tested met the BS9525-F0033 specification for insertion, withdrawal, and contact resistance; initially, during and after multiple engagements and separations up to 500 operations. Further, the product remained very consistent and stable through the operating cycles.

2. Test Method, Requirements and Results

2.1. Specification Parameters

The requirements of BS9525-F0033 are as follows:

Contact Insertion Force	Contact Withdrawal Force	Contact Resistance
2N max	0.2N min	20mΩ initial, 25mΩ after conditioning

2.2. List of Test Samples

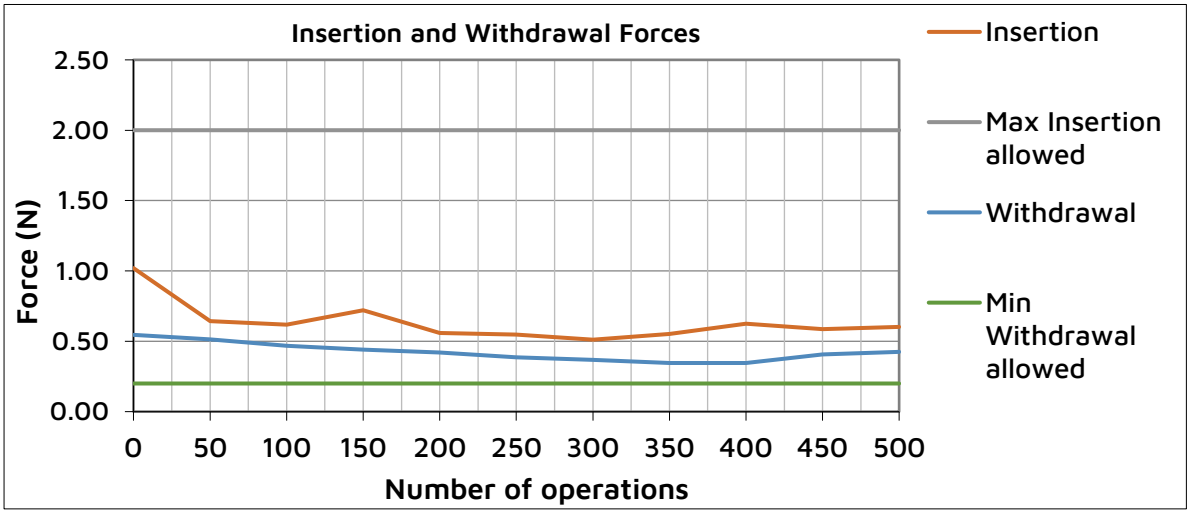
- M80-0110005 – Female L-Tek crimp contact, Large Bore

2.3. Test Method and Results

2.3.1. Insertion and Withdrawal Forces

Methodology: Spare male contact pins were used as a test pin.

Results:



2.3.2. Contact Resistance