



HARWIN

Test Report Summary

HT01202

Mechanical Testing of Datamate (M80 Series)
L-Tek Horizontal Male SMT Contacts

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 confirm that the new design of stamped contacts for use in Datamate L-Tek Male Horizontal SMT connectors would be comparable with the rest of the range for contact retention. The results of testing to confirm insertion force, withdrawal force and contact resistance in Datamate L-Tek can be read over from the Datamate J-Tek results, documented in Harwin Test Summary HT010XX.

1.2. Conclusion

The following test data has been taken from Harwin test report C41/06. Both stamped contacts easily met the required standards, and are therefore approved for use as Datamate contacts.

2. Test Method, Requirements and Results

2.1. Specification Parameters.

The BS9525-F0033 requirement for contact retention within a moulding is 10N minimum.

2.2. List of Test Samples

- M80-6650442 – 4-way male Horizontal SMT Datamate J-Tek connector, incorporating stamped contacts M80-2340042 and M80-2350042
- M80-6652042 – 20-way male Horizontal SMT Datamate J-Tek connector, incorporating stamped contacts M80-2340042 and M80-2350042
- M80-6653442 – 34-way male Horizontal SMT Datamate J-Tek connector, incorporating stamped contacts M80-2340042 and M80-2350042

2.3. Test Results

	M80-6650442		M80-6652042		M80-6653442	
Contact	M80-2340042	M80-2350042	M80-2340042	M80-2350042	M80-2340042	M80-2350042
Minimum	17.98N	15.40N	15.21N	11.32N	15.60N	13.68N
Maximum	19.69N	17.80N	18.88N	17.52N	22.93N	21.00N
Average	18.55N	16.60N	16.26N	14.46N	19.38N	18.14N