



TEST SUMMARY

SL 70058 TERMINAL

1.0 SCOPE

- 1.1 This Test Summary covers the 2.54 mm (.100 inch) centerline (pitch) 70066 SL connector housing and 70058 SL crimp terminal terminated with 24 AWG wire using Crimp technology with Pd/Ni plating.
- 1.2 To evaluate the performance of components after multiple cycling when plated with gold flash over palladium nickel.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND PART NUMBER(S)

- 2.1.1 Housing: 70066 series, 4 circuit, single row, .100" center
- 2.1.2 Terminal: 70058 series 24-30 AWG
 - 2.1.2.1 Plating: Au flash (3-5 μ ") over Pd/Ni (30 μ " min.) over Ni (50 μ " min.)
- 2.1.3 Wafer assembly: 70221 series, 40 circuit, single row, .025" square pin.
 - 2.1.3.1 Plating: Au flash (3-5 μ ") over Pd/Ni (30 μ " min.) over Ni (50 μ " min.)
- 2.1.4 Cable: 0.5 mm round solid tinned, insulation diameter 1.0mm

2.2 PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

- 2.2.1 PS-70400, Product spec for single row stackable linear (SL) connector system
- 2.2.2 PS-70058, Product specification for SL crimp terminal, series 70058
- 2.2.3 PS-70221, Product specification for C-Grid wafer assembly, series 70221

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 TESTING PROCEDURES AND SEQUENCES

- 3.1.1 Testing was performed by Molex Europe, see section 5.1 for tests and sequence (Molex World Wide Test Sequence 1)

4.0 QUALIFICATION

- 4.1 Laboratory conditions and sample selection are in accordance with **EIA-364**.

REVISION: B	ECR/ECN INFORMATION: EC No: UCP2008-1762 DATE: 2008/01/30	TITLE: TEST SUMMARY FOR SL 70058 TERMINAL PLATED WITH GOLD FLASH PALLADIUM NICKEL	SHEET No. 1 of 2
DOCUMENT NUMBER: TS-70058-001	CREATED / REVISED BY: RSFOX	CHECKED BY: DBRINKMAN	APPROVED BY: DBRINKMAN



TEST SUMMARY

5.0 PERFORMANCE

5.1 ELECTRICAL PERFORMANCE RESULTS: Contact Resistance (Low Level)

DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
Contact Resistance	Initial	30 milliohms MAXIMUM	12.5 mΩ	11.5 mΩ	13.5 mΩ
Durability	After 3,000 Cycles	10 milliohms MAXIMUM*	12.5 mΩ	12.2 mΩ	12.9 mΩ
	After 6,000 Cycles	10 milliohms MAXIMUM*	12.8 mΩ	12.0 mΩ	14.0 mΩ
	After 10,000 Cycles	10 milliohms MAXIMUM*	12.5 mΩ	11.6 mΩ	13.1 mΩ
Thermal Shock Per IEC-68-2-14 -40 °C to +105 °C 10 cycles 30 minutes dwell	Uncycled	10 milliohms MAXIMUM*	12.6 mΩ	11.8 mΩ	13.5 mΩ
	3,000 Cycles	10 milliohms MAXIMUM*	13.0 mΩ	12.6 mΩ	13.9 mΩ
	6,000 Cycles	10 milliohms MAXIMUM*	13.2 mΩ	12.0 mΩ	14.7 mΩ
	10,000 Cycles	10 milliohms MAXIMUM*	13.6 mΩ	12.4 mΩ	18.2 mΩ
Thermal Aging Per MIL-STD 202F Method 108A 10 days at 105 °C	Uncycled	10 milliohms MAXIMUM*	12.7 mΩ	12.0 mΩ	13.5 mΩ
	3,000 Cycles	10 milliohms MAXIMUM*	13.4 mΩ	12.6 mΩ	14.4 mΩ
	6,000 Cycles	10 milliohms MAXIMUM*	13.5 mΩ	12.7 mΩ	14.4 mΩ
	10,000 Cycles	10 milliohms MAXIMUM*	14.1 mΩ	12.3 mΩ	21.5 mΩ
Cyclic Humidity Per MIL-STD 202, Method 106D 25 °C to 65 °C 24 Hr, 90-98% RH	Uncycled	10 milliohms MAXIMUM*	13.0 mΩ	12.1 mΩ	14.8 mΩ
	3,000 Cycles	10 milliohms MAXIMUM*	13.5 mΩ	12.5 mΩ	14.5 mΩ
	6,000 Cycles	10 milliohms MAXIMUM*	13.6 mΩ	12.8 mΩ	14.3 mΩ
	10,000 Cycles	10 milliohms MAXIMUM*	14.7 mΩ	12.8 mΩ	20.6 mΩ
Flowers of Sulfur 17 hours at 65 °C	Uncycled	10 milliohms MAXIMUM*	13.0 mΩ	12.2 mΩ	14.8 mΩ
	3,000 Cycles	10 milliohms MAXIMUM*	13.7 mΩ	12.7 mΩ	14.5 mΩ
	6,000 Cycles	10 milliohms MAXIMUM*	13.9 mΩ	13.0 mΩ	15.5 mΩ
	10,000 Cycles	10 milliohms MAXIMUM*	14.9 mΩ	13.3 mΩ	20.5 mΩ

* change from initial

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DOCUMENT NUMBER: TS-70058-001	CREATED / REVISED BY: RSFOX	CHECKED BY: DBRINKMAN	APPROVED BY: DBRINKMAN