TEST REPORT

Report No.：	UK230207122
Applicant:	Shenzhen Signal Electronics Co.,Ltd
Address:	Building 15,Xia Lang Industrial Zone,He Shui Kou Community , Gongming, Guang ming New District,Shenzhen,GD
Product:	120112-01-022
Model No.:	M12 Type A 12-core straight head plastic assembly type
Date of issue :	2023-02-24
Testing Institute：	Guangdong U.K Standard Testing Co., Ltd.

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U.K Standard Testing

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11. A "decision" or "result" of "P" in the report means that the test is "qualified"; "F" means the test "fails";"N (N/A)" indicates that the test is not applicable.

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Test report

Name of product:	120112-01-022	**Applicant:**	Shenzhen Signal Electronics Co.,Ltd
Model:	M12 Type A 12-core straight head plastic assembly type	**Address:**	Building 15,Xia Lang Industrial Zone,He Shui Kou Community, Gongming, Guang ming New District,Shenzhen,GD
Source of sample:	From applicant	**Manufacturer:**	Shenzhen Signal Electronics Co.,Ltd
Quantity:	3 pcs	**Address:**	Building 15,Xia Lang Industrial Zone,He Shui Kou Community, Gongming, Guang ming New District,Shenzhen,GD
Date of receive sample:	2023-02-20	**Production plant:**	Shenzhen Signal Electronics Co.,Ltd
Date of complete:	2023-02-24	**Address:**	Building 15,Xia Lang Industrial Zone,He Shui Kou Community, Gongming, Guang ming New District,Shenzhen,GD

Standards for test:
IEC 60695-2-11:2014 Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)

Test result:
PASS

Test specification:
850℃

Test Engineer: Singe Lan **Signature:** Singe lan
Date: 2023-02-24

Project Engineer: Chandler Lee **Signature:** Chandler lee
Date: 2023-02-24

Authorized Signatory: Eddie Ma **Signature:**
Date: 2023-02-24

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Stamp

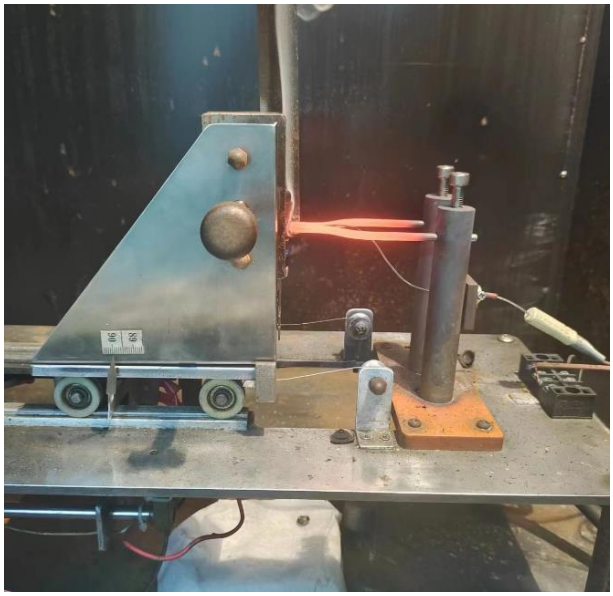
2023-02-24

IEC 60695-2-11:2014			
Clause	Test items and test requirements	Test results - Description	Decision
7	**Conditioning**		P
7.1	Conditioning of test specimens		P
	Unless otherwise specified in the relevant product standard, the test specimens shall beconditioned for 24 h in an atmosphere having a temperature between 15 °C and 35 °C and arelative humidity between 45 % and 75 %.		P
7.2	Conditioning of specified layers		P
	out according to IEC 60695-2-10. If the material or components normally surrounding or situated underneath the test specimen is used, the material or components shall be conditioned in the same way as the test specimen (see 7.1).		P
7.3	Testing conditions		P
	The test specimens shall be tested in a laboratory atmosphere having a temperature between 15 °C and 35 °C and a relative humidity less than or equal to 75 %. Testing shall be completed within 30 minutes after the specimen is removed from the conditions specified in 7.1.		P
8	**Test procedure**		P
8.1	General		P
	In addition to the common test procedure specified in IEC 60695-2-10, if not otherwise specified, the test specimen shall be so arranged that the tip of the glow-wire is applied to the part of the surface of the test specimen which is likely to be subjected to thermal stresses in normal use. The glow-wire shall be maintained as close to the horizontal as is practicable.		P
	In cases where the test shall be made at more than one point on the same test specimen, care shall be taken that any deterioration caused by previous tests will not affect the result of the test to be made.		N/A
	In cases where the areas subjected to thermal stresses during normal use of the equipment are not specified in detail, the tip of the glow-wire is applied at a place where the section is thinnest, but if possible not less than 15 mm from the upper edge of the test specimen.		P
	Clamping the test specimen onto the test apparatus shall not introduce excessive internal mechanical stresses in the test specimen during the test.		P
8.2	Test temperatures		P
	The glow-wire is heated to the test temperature specified in the relevant product standard. This temperature should preferably be one of the temperatures shown in Table 1.	850℃	-

IEC 60695-2-11:2014			
Clause	Test items and test requirements	Test results - Description	Decision
8.3	If not otherwise specified by the relevant product standard, the test is made on one test specimen.		P
9	**Observations and measurements**		P
	During the time of application of the glow-wire, tA (30 s ± 1 s), and during a further period of 30 s, the test specimen, the parts surrounding the test specimen and the specified layer placed below it shall be observed and the following shall be reported:		-
	a) whether there is no ignition; or, if there is ignition, the duration, ti (to the nearest 0,5 s), from the beginning of tip application up to the time at which the test specimen or the specified layer placed below it ignites;	unignited	P
	b) the duration, tE, (to the nearest 0,5 s) from the beginning of tip application up to the time when all flames extinguish, during or after the period of application;		N/A
	c) whether the test specimen extinguishes by virtue of most of the flaming material being withdrawn with the glow-wire;		N/A
	d) whether the test specimen is totally burned; and		N/A
	e) whether there is any ignition of the specified layer placed underneath the test specimen.	unignited	P
10	**Evaluation of test results**		P
	The test specimen is considered to have a GWEPT of T if at a test temperature of T °C,	850℃	P
	a) there is no ignition, or		P
	b) all of the following situations apply when ignition has occurred:		N/A
	i) if flames or glowing combustion of the test specimen extinguish within 30 s after removal of the glow wire, i.e. tE ≤ tA + 30 s; and		N/A
	ii) the specified layer placed underneath the test specimen does not ignite.		N/A

Sample Photo

Test Photo



Inspection Equipment List

Inst. ID No.	Instrument Type	Last Cal. Date	Next Cal. Date
UK05-123	Quartz-type precision Thermo-hygrograph	2022-03-17	2023-03-16
UK04-042	Constant temperature and humidity box	2022-03-17	2023-03-16
UK02-037	Glow-wire tester	2022-03-17	2023-03-16

========== End of report ==========