

Prüfbericht-Nr.: <i>Test report no.:</i>	CN22SA7I 001	Auftrags-Nr.: <i>Order no.:</i>	168394351	Seite 1 von 12 Page 1 of 12
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-10-12	
Auftraggeber: <i>Client:</i>	SHENZHEN LEDYI LIGHTING CO., LTD 7th Floor, Skyworth Digital Building, Songbai Road, Shiyan, Bao'an District, Shenzhen, China			
Prüfgegenstand: <i>Test item:</i>	LED NEON LIGHT			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	NS-XW/WHH-IP68 (Details see product information)			
Auftrags-Inhalt: <i>Order content:</i>	IP68 test report			
Prüfgrundlage: <i>Test specification:</i>	IP68 test according to Clause 9.2.2 and 9.2.9 of IEC60598-1:2020 and EN IEC 60598-1:2021+A11			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-10-14	See photo document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003351307-001~006			
Prüfzeitraum: <i>Testing period:</i>	2022-10-17 to 2022-10-21			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	2022-10-26		2022-10-26	
Stellung / Position:	Duffe Zhong/ PE	Stellung / Position:	Young Yang/Reviewer	
Sonstiges / Other:	1. This report is issued for the test as requested by client.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
2	<p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</p> <p><i>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</i></p>
3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	N/A

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Anmerkungen
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1	Product details:	LED NEON LIGHT
2	Manufacturer:	SHENZHEN LEDYI LIGHTING CO., LTD 7th Floor, Skyworth Digital Building, Songbai Road, Shiyan, Bao'an District, Shenzhen, China
3	Ratings:	IP68 3m
4	Model/Type reference:	NS-XWWHH-IP68 See general product information
5	Summary of testing:	Test at model NS-T1615-IP68 and NS-S1220-IP68. Max power per meter models have been select for testing.
6	Test location:	TUV Rheinland (Shenzhen) Co., Ltd. 1601-1604, 17-18F, Tower A Building 2, Shenzhen International Innovation Valley, Dashi 1st Road, Xili Street, Xili Community, Shenzhen 518052 Nanshan District, China
7	Sonstiges <i>Other</i>	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Ergebnis Result
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Clause	Requirement + Test	Result - Remark	Verdict
9	RESISTANCE TO DUST AND MOISTURE		P
(-)	If IP > IP 20 the order of tests as specified in clause 3.12		P
9.2	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP..... :	IP 68 3m	—
	- mounting position during test..... :	Normal use mounting	—
	- fixing screws tightened; torque (Nm)..... :		—
	- tests according to clauses..... :	cl. 9.2.2 & cl. 9.2.9	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		P
	c.1) For luminaires without drain holes – no water entry	No trace of water observed inside the product	P
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold water jet-proof luminaire		P
	e) no contact with live parts (IP 2X)		N/A
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		N/A

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Ergebnis Result
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Clause	Requirement + Test	Result - Remark	Verdict
9.2.2	Dust-tight luminaires (IP6X)		P
	Dust-tight luminaires (first characteristic IP numeral 6) are tested in accordance with 9.2.1.	no entry into enclosure	P
9.2.5	Pressur-watertight luminaires (IPX8)		P
	<p><i>Pressure watertight luminaires (second characteristic IP numeral 8) are heated either by switching on the lamp or by other suitable means, so that the temperature of the luminaire enclosure exceeds that of the water in the test tank by between 5 °C and 10 °C.</i></p> <p><i>The luminaire shall then be switched off and subjected to a water pressure of 1,3 times that pressure which corresponds to the rated maximum immersion depth for a period of 30 min.</i></p>	no water entry.	P
	no trace of water on electrical connections, current carrying parts or on insulation where it could become a hazard for the user or surroundings, for example where it could reduce the creepage distances below the values specified in Section 11;		P
	For luminaires without drain holes, there shall be no water entry.		P
	no damage, for example, cracking or breakage of a protective shield or glass envelope, such that safety or protection against the ingress of moisture is impaired.		P
	Electric strength test		P
	500 V (1min) is applied between current-carrying parts and accessible part.		P
	There is no flashover or breakdown occurred.	No flashover or breakdown	P

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Anmerkungen
Remarks

General product information:

Product: LED NEON LIGHT
Model: NS-XWWHH-IP68

1. "NS" represents neon strip.
2. "X" Represent bend direction, may be replace by "T" means top bending, "S" means side bending.
3. "WW" represent the width of LED stripe, may be digits from 02 to 60; for example:02 mean 2mm,60 mean 60mm.
4. "HH" represent the height of LED stripe, may be digits from 02 to 60; for example:02 mean 2mm,60 mean 60mm.
5. "IP68" represents water proof grade.

Model list for test:

Model No.	Product name	Rated	IP
NS-T1615-IP68	LED NEON LIGHT	24V DC	IP68 3m
NS-S1220-IP68	LED NEON LIGHT	24V DC	IP68 3m

Remark: N/A

Photos:



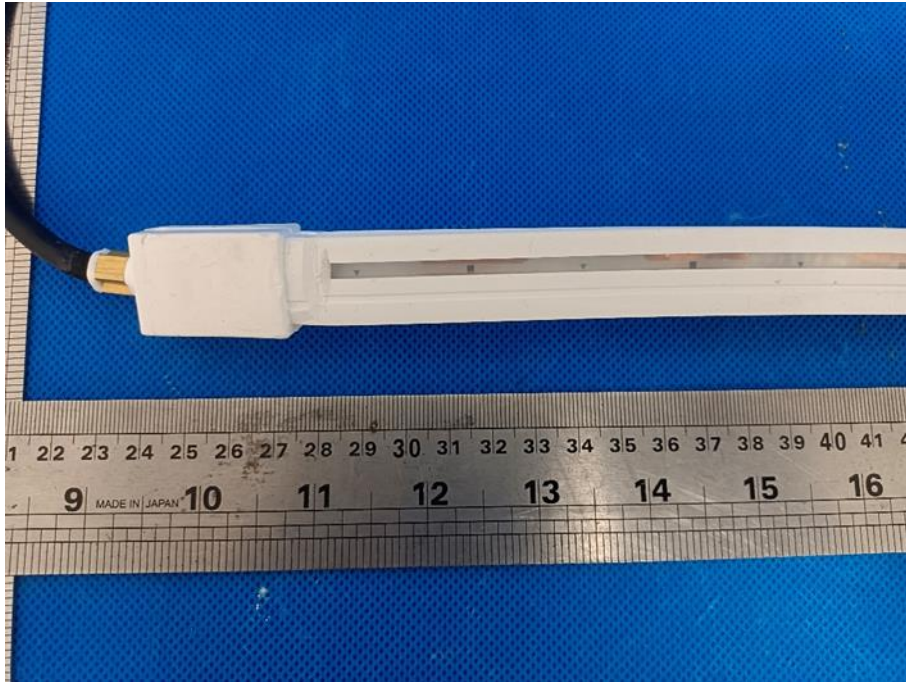
Picture 1 the overview of model NS-S1220-IP68



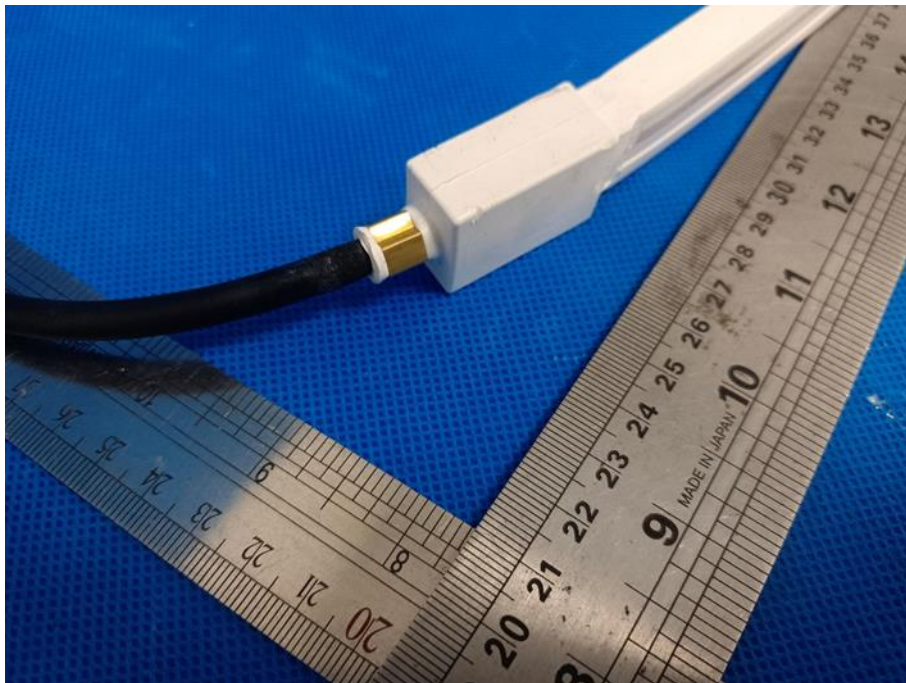
Picture 2 the overview of model NS-S1220-IP68

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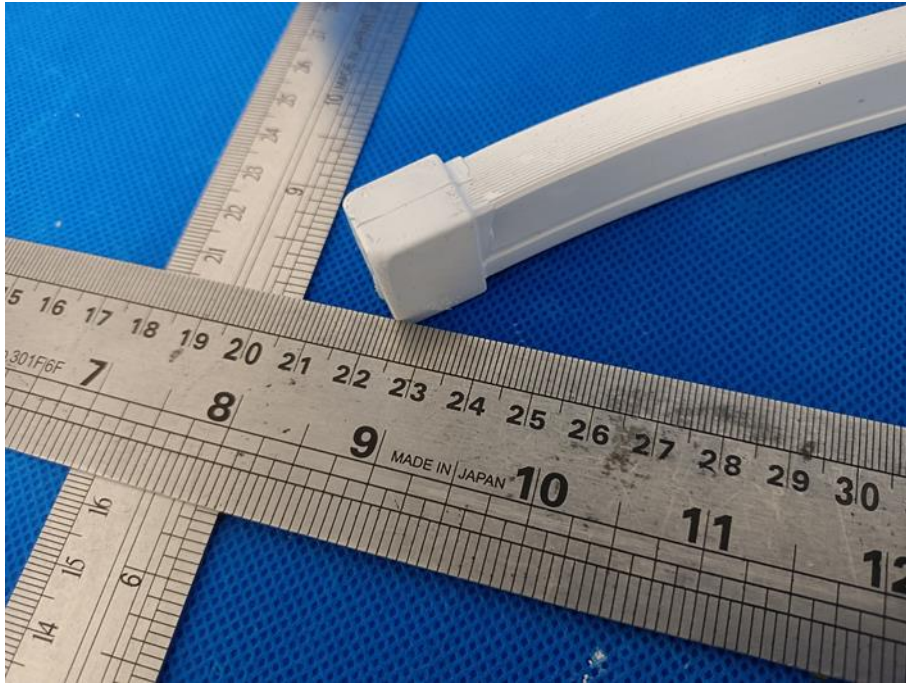
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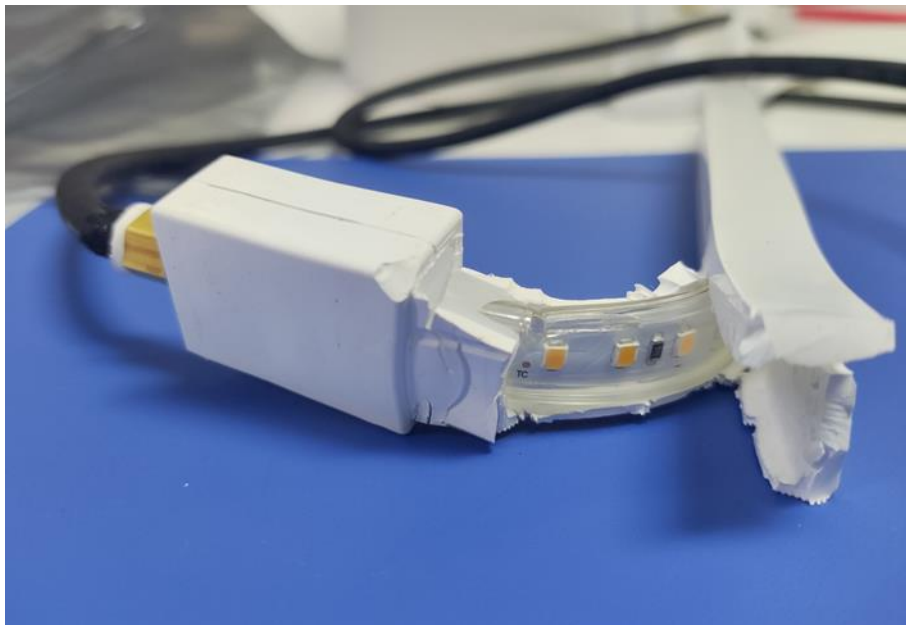
Picture 3 the partial of model NS-S1220-IP68



Picture 4 the partial of model NS-S1220-IP68



Picture 5 the partial of model NS-S1220-IP68



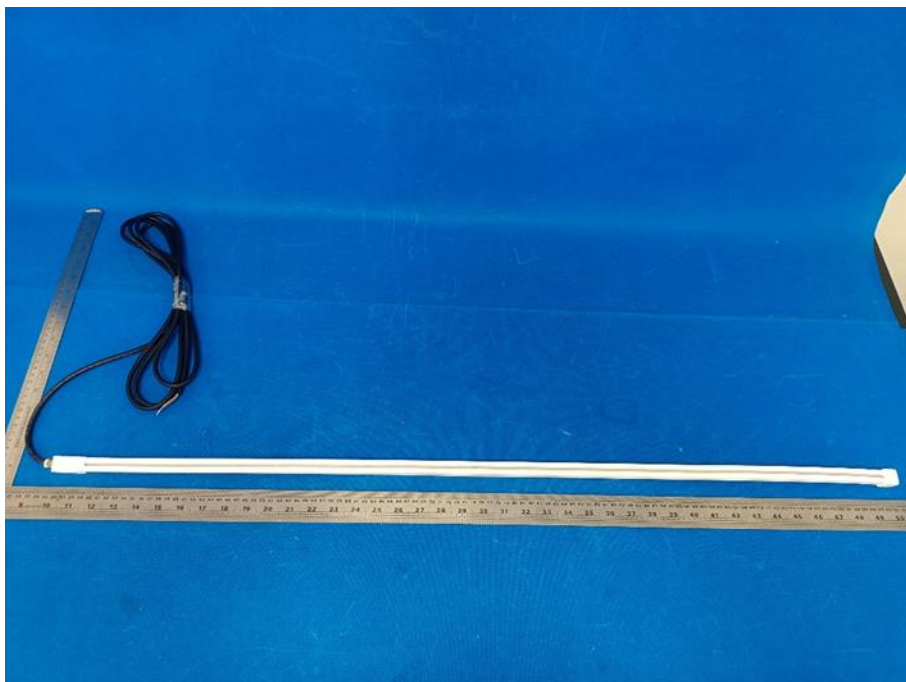
Picture 6 Picture Internal view of model NS-S1220-IP68

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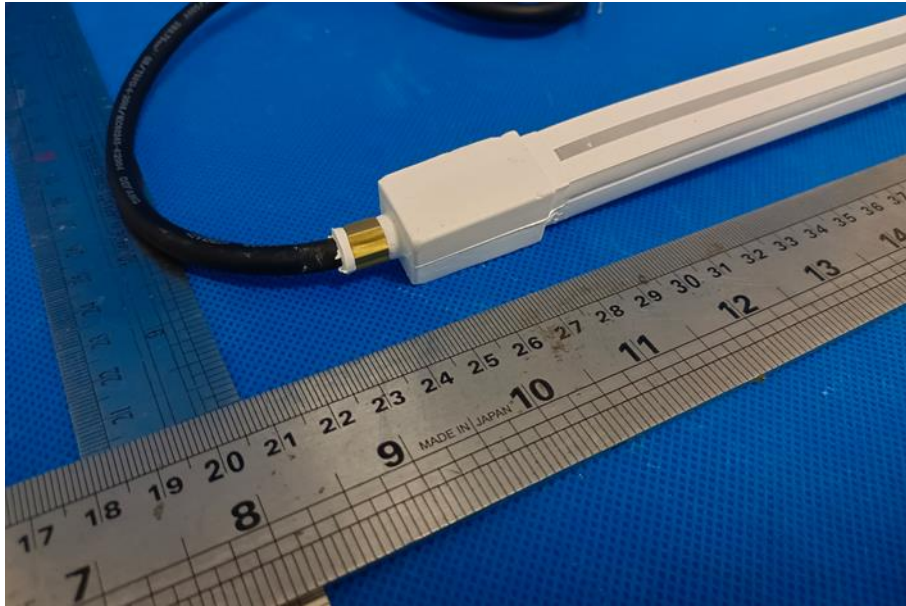
Picture 7 the overview of model NS-T1615-IP68



Picture 8 the overview of model NS-T1615-IP68

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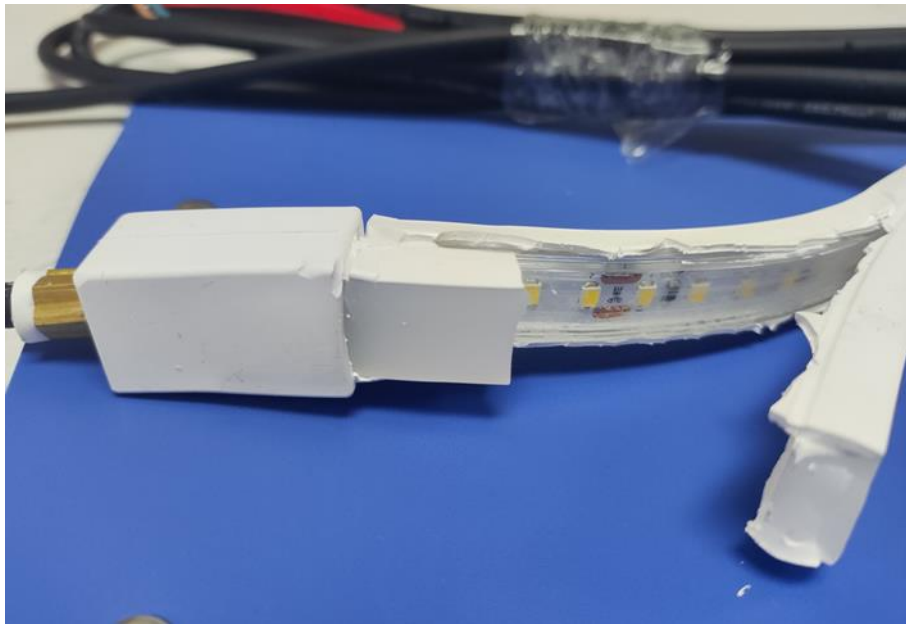
Picture 9 the partial of model NS-T1615-IP68



Picture 10 the partial of model NS-T1615-IP68

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Picture 11 the partial of model NS-T1615-IP68

=== End of report ===