

Prüfbericht-Nr.: <i>Test Report No.:</i>	50157122 001	Auftrags-Nr.: <i>Order No.:</i>	174053547	Seite 1 von 9 <i>Page 1 of 9</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2016-07-29		
Auftraggeber: <i>Client:</i>	Senbe lighting Co., Ltd Building B6, Huachuang Industrial Park, Shiji Town, Panyu District, Guangzhou				
Prüfgegenstand: <i>Test item:</i>	LED Rope Light				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	S-FR-F15B				
Auftrags-Inhalt: <i>Order content:</i>	Type examination				
Prüfgrundlage: <i>Test specification:</i>	Clause 9.2 of standard EN 60598-1:2015 and client's special requirements				
Wareneingangsdatum: <i>Date of receipt:</i>	2018-06-08	Detaillierte Fotodokumentation siehe Anlage zu diesem Bericht Detailed photo documentation see appendix to this report			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000746583-001, 002, 003				
Prüfzeitraum: <i>Testing period:</i>	2018-06-13 to 2018-06-19				
Ort der Prüfung: <i>Place of testing:</i>	Waltek Services (Foshan) Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
2018-06-27 Dere Zhang / Project Engineer <i>Dere Zhang</i> Jack Li / Project Manager <i>Jack Li</i>		2018-06-27 Mars Yan / Reviewer <i>Mars Yan</i>			
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Others:					
According to client's application, this report and test result is for IP68 test only. Further tests should be evaluated if the products are required to fulfill the requirements of the whole standard EN 60598-1:2015.					
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 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable 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>					

Summary of testing: The tested samples fulfilled the requirements clause 9.2 of standard EN 60598-1:2015.	
Tests performed (name of test and test clause): 9.2 Resistance to dust, solid objects and moisture	Testing location: Waltek Services (Foshan) Co., Ltd. 2/F, 2nd Building, Sunlink International Machinery City, Chencun Town, Shunde District, Foshan 528313, Guangdong, China.
Summary of compliance with National Differences: No national differences were considered.	
Copy of marking plate: Not provided.	

Test item particulars: LED Rope Light Classification of installation and use.....: Class III Supply Connection.....: Non-detachable supply cord Model and/or type reference.....: S-FR-F15B Manufacturer.....: Same as client Factory.....: Same as client Rating(s).....: DC 24V, 30mA, 12W, ta=25°C, Max. 3m under water according to client's requirement.
Test case verdicts Test case does not apply to the test object: N/A Test item does meet the requirement.....: P(ass) Test item does not meet the requirement.....: F(ail)
Testing Date of receipt of test item: 2018-06-08 Date(s) of performance of test.....: 2018-06-13 to 2018-06-19

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

“(see remark #)” refers to a remark appended to the report.

“(see appended table)” refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

Remark:

- 1) The product is LED Rope Light, suitable for indoor and outdoor use.
- 2) The product have three construction for waterproof, details see product photo.
- 3) The test samples' length is 1m.

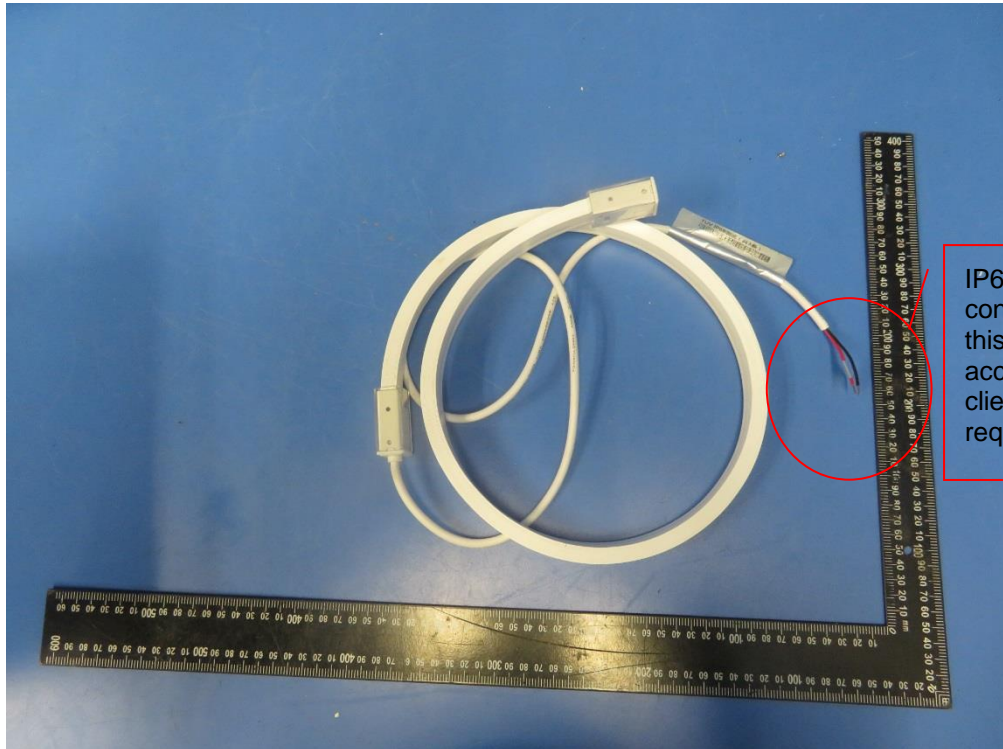
LED specification:

Model	Manufacturer	Parameters
US-2835ALNY-A-118	Shenzhen Unionlight Opto-electronics Technology Co., Ltd	Vf=(2.8-3.4)V @ If=60mA; CCT: (2800-3200)K; View angle: 120°; Size: (2.80*3.50*1.05)mm; Emitted colour: white

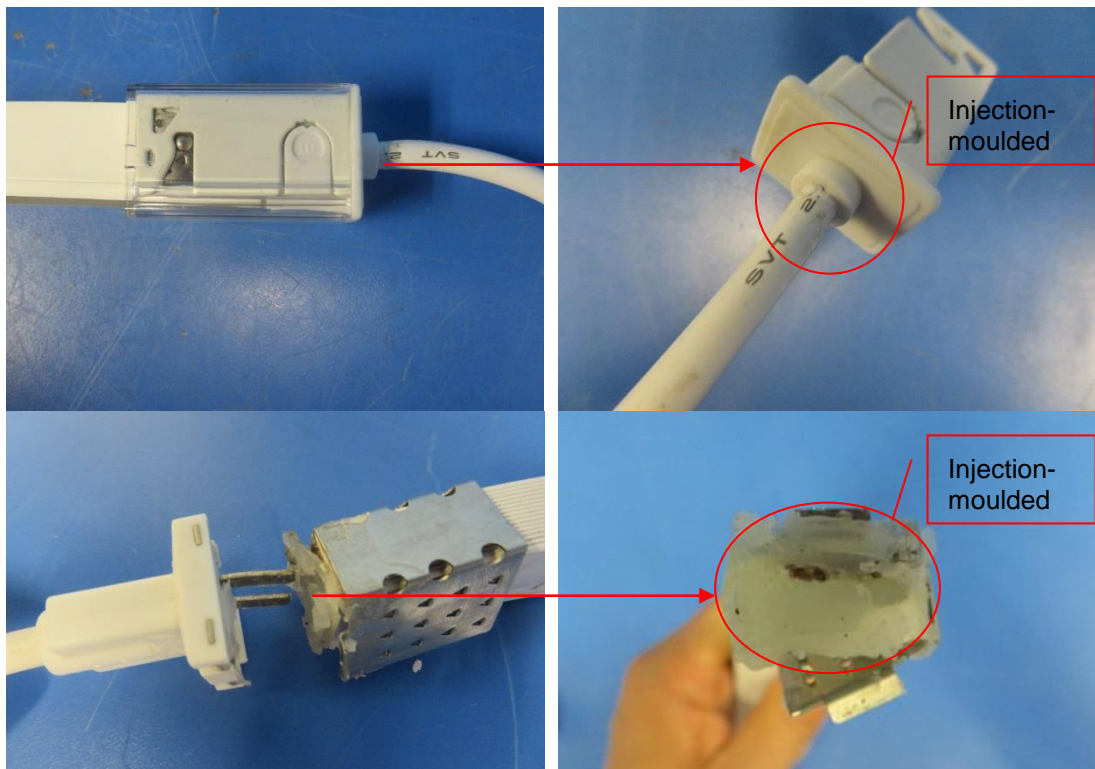
EN 60598-1			
Clause	Requirement + Test	Result - Remark	Verdict
9	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		P
9.2	Tests for ingress of dust, solid objects and moisture		—
	- Classification according to IP.....:	IP68	—
	- Mounting position during test.....:	As normal use	—
	- Fixing screws tightened; torque (Nm).....:	0.40Nm (for screw connector kit)	—
	- Tests according to clauses.....:	Cl. 9.2.2 and Cl. 9.2.9	—
	- Electric strength test afterwards.....:	500V	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
	d) i) For luminaires without drain holes – no water entry		P
	d) ii) For luminaires with drain holes – no hazardous water entry		N/A
	e) no water in watertight luminaire		P
	f) no contact with live parts (IP2X)		N/A
	f) no entry into enclosure (IP 3X and IP 4X)		N/A
	f) no contact with live parts (IP3X and IP4X)		N/A
	g) no trace of water on part of lamp requiring protection from splashing water		N/A
	h) no damage of protective shield or glass envelope		N/A

Appendix: Product Photo

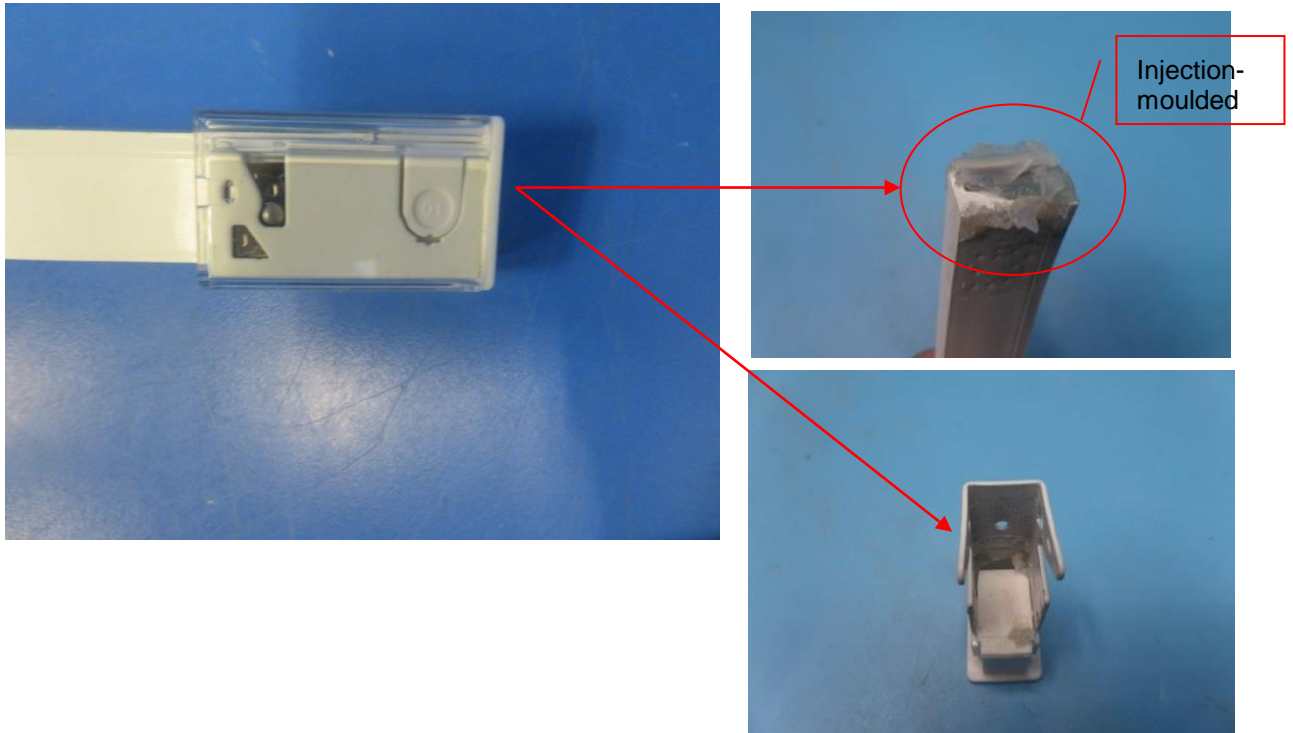
Picture 1: Sleeve connector kit



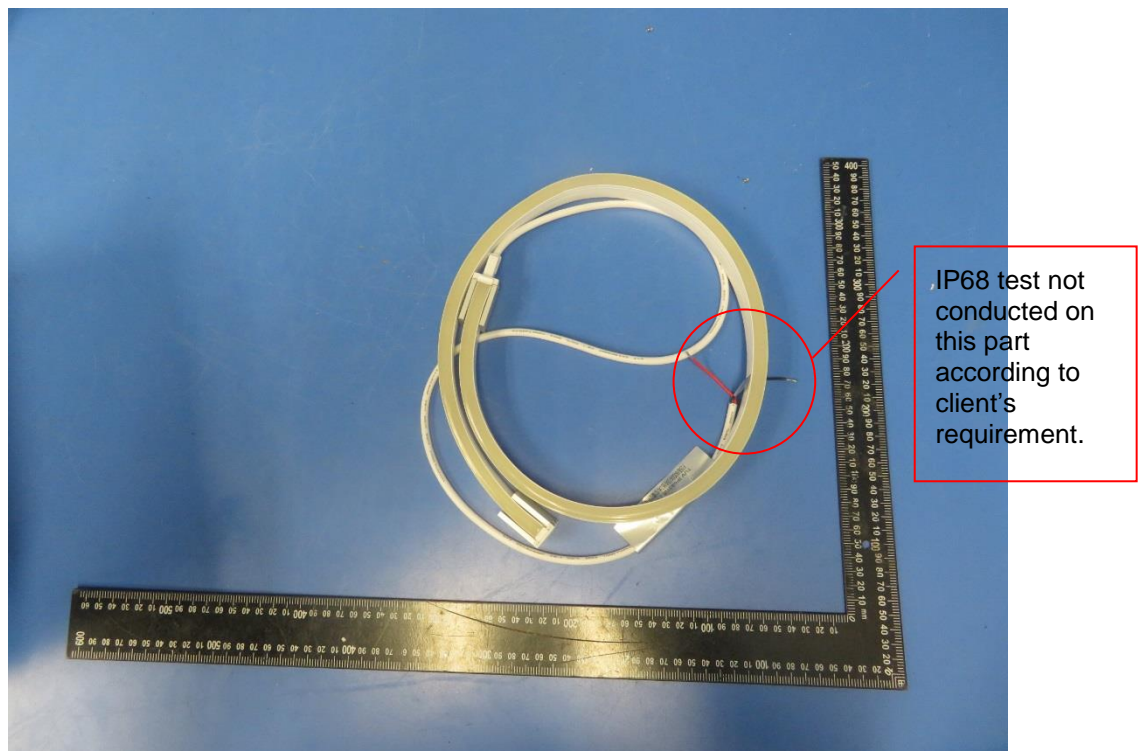
Picture 2: Sleeve connector kit



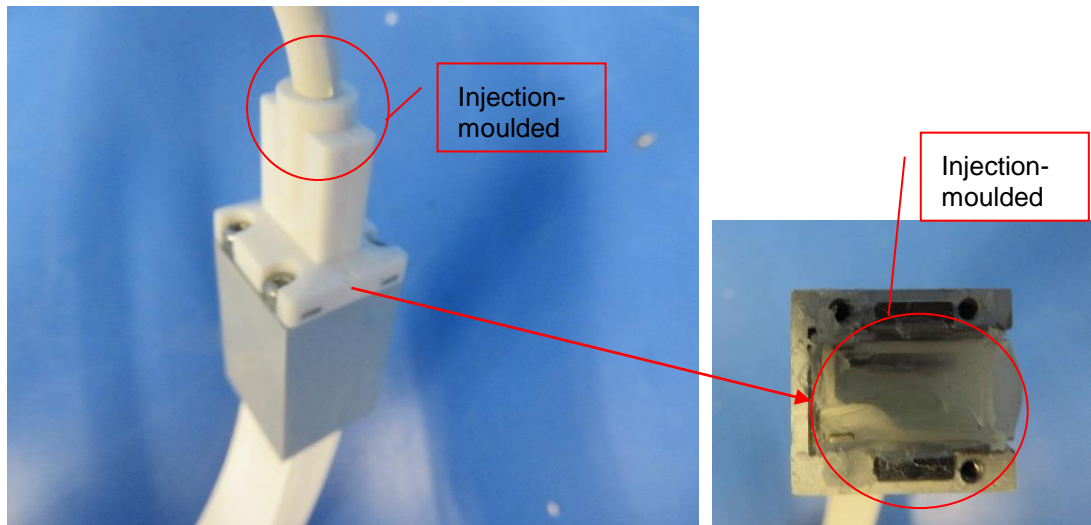
Picture 3: Sleeve connector kit



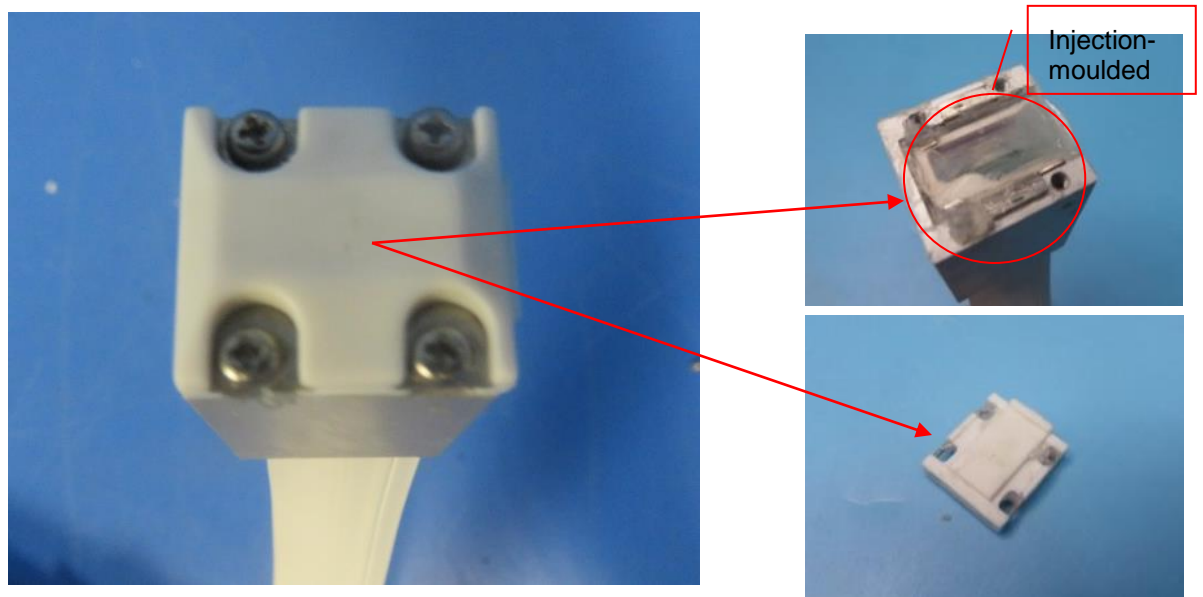
Picture 4: Screw connector kit



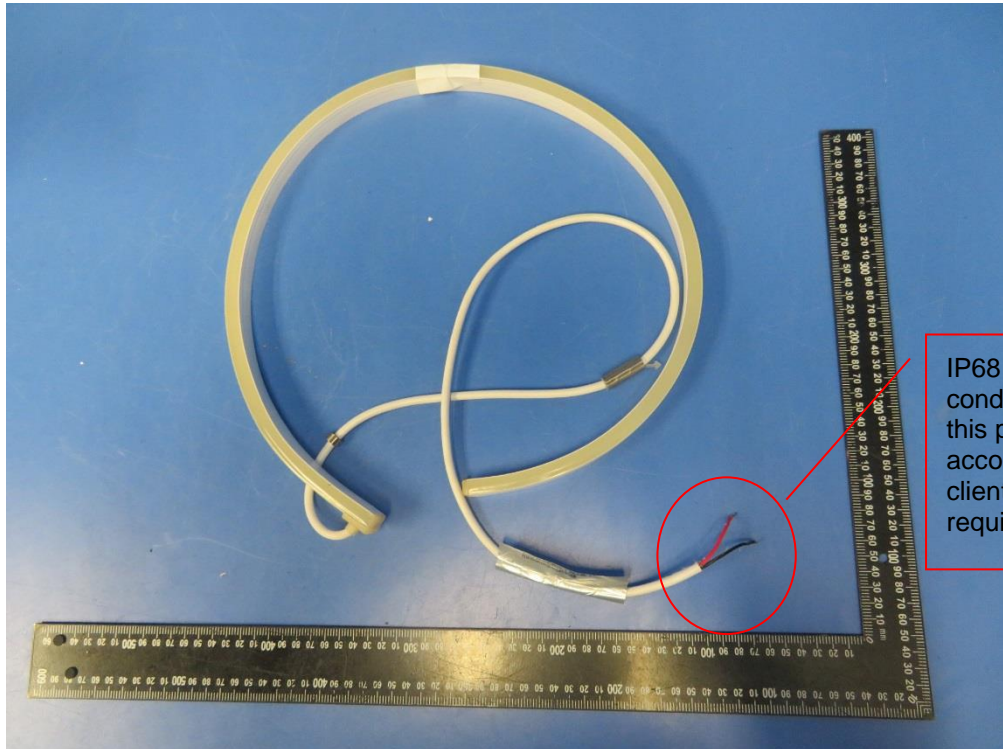
Picture 5: Screw connector kit



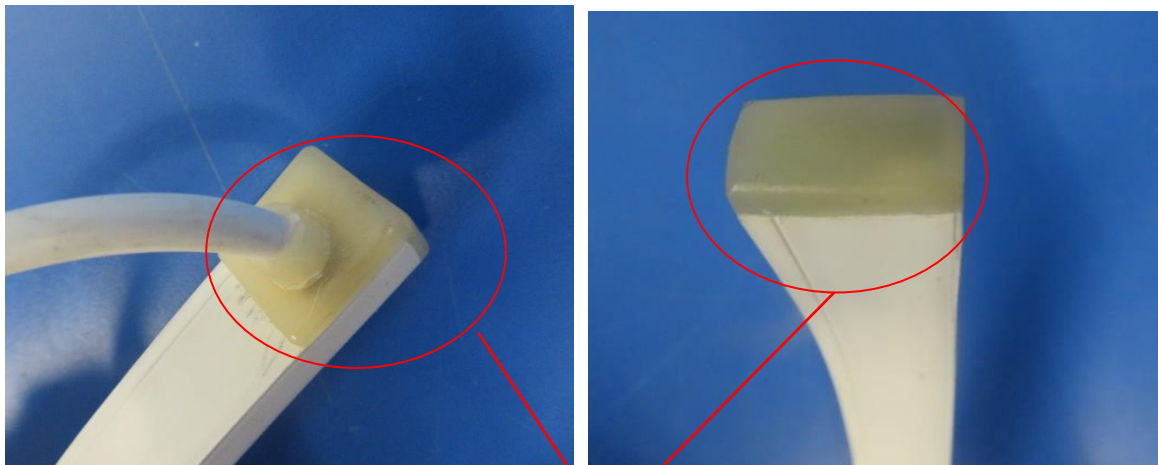
Picture 6: Screw connector kit



Picture 7: Injection-moulded Connector kit

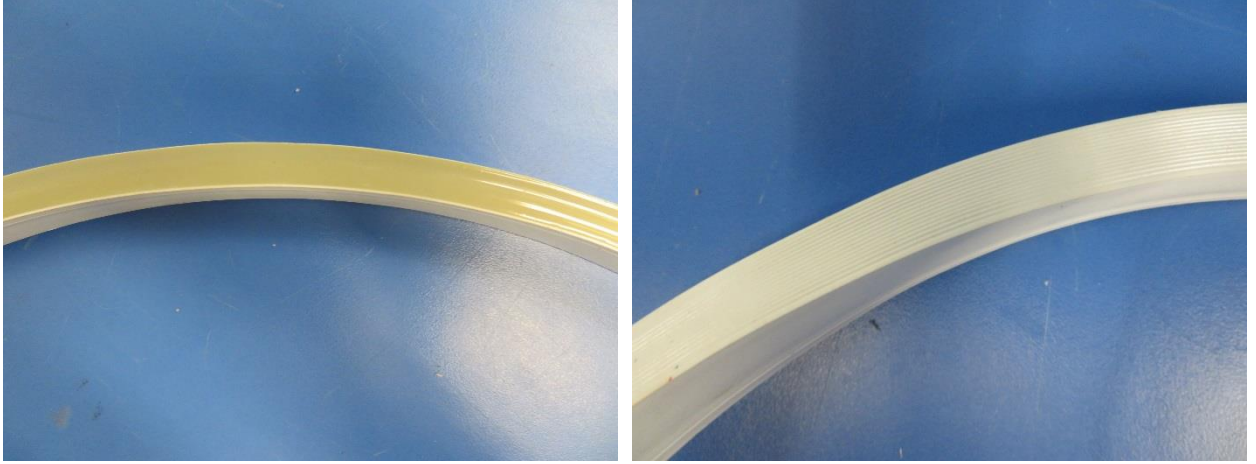


Picture 8: Injection-moulded Connector kit



Injection-moulded

Picture 9: Injection-moulded body for Sleeve connector kit, Screw connector kit and Injection-moulded connector kit



---End of Test Report---