

SHENZHEN EASING HOME OPTO-ELE CO., LTD

Address: F5, Building 5, 2nd Baoshi Road, Tianliao Community, Gongming Street,Guangming New District,Shenzhen City 518106, Guangdong Province, China
 www.easinghome.com www.siliconeon.com www.ledlits.com contact@easinghome.com 86-0755-27640099

COB LED STRIP TENSILE TEST REPORT

product name	COB led strip	tested by	Mark Tang	test time	2020/3/24
test items	Tensile tests	Test type	Environmental test	quantity	4

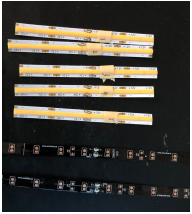
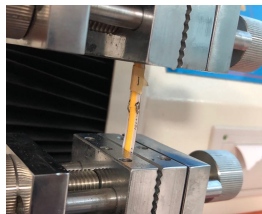



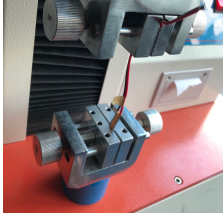
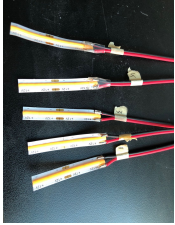


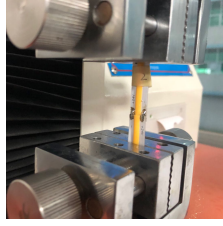
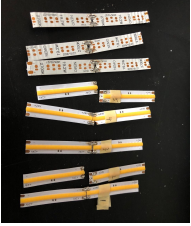

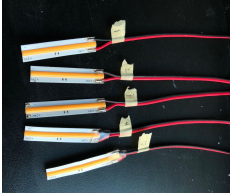
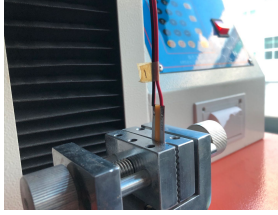
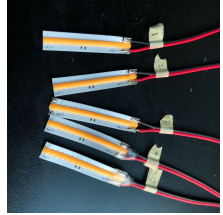

1.test purpose : Test the maximum tensile force of COB led strip's welding Pad

2.Experimental apparatus:

- 5pcs 10mm cob strip " pcb to pcb connecting" (regular pcb strip 2pcs),
- 5pcs 10mm cob strip "wire to pcb connecting" (including 2pcs soldering place are protected with heat shrinkable tube)
- 5pcs 10mm cob strip " pcb to pcb connecting"(regular pcb 2pcs);
- 5pcs 8mm cob strip " wire to pcb connecting" (including 2pcs soldering place are protected with heat shrinkable tube)

3.test requirement: Test and record the maximum tension when the PCB's broken

4.Test records:

8mm before testing	testing	after testing	Maximum tension
			
8mm before testing	testing	after testing	Maximum tension
			
10mm before testing	testing	after testing	Maximum tension
			
10mm before testing	testing	after testing	Maximum tension
			

5.test result:

8mm pcb to pcb		8mm wire to pcb		10mm pcb to pcb		10mm wire to pcb	
serial No.	tension/kgf	serial No.	tension/kgf	serial No.	tension/kgf	serial No.	tension/kgf
1	8.89	1	9.22	1	11.15	1	18.8
2	9.54	2	10.53	2	12.42	2	20.07
3	8.04	3	12.92	3	12.69	3	21.8
4	9.04	4	11.34	4	13.59	4	19.48
5	9.45	5	9.59	5	12.84	5	21.92
regular pcb	9.6			regular pcb	8.71		
regular pcb	9.69			regular pcb	8.66		

Note : regular pcb--Refers to the regular strip PCB board tension, only for reference;

No.4,5 has protected with the heat shrinkable tube

5.conclusion

- 1.8mm pcb's maximum tension is 8kgf, the main fail reason : soldering pad tear and solder fracture;
- 2.8mm wire connection type's maximum tension is 9kgf, the main fail reason : Weld pad tear and Circuit board break; and There is no effect on the maximum tensile force when heat shrinkable sleeve is installed
- 3.10mm width pcb's maximum tension is 11 kgf, the main fail reason : soldering pad tear,solder fracture and Circuit board break
- 4.10mm wire connection type's maximum tension is 18kgf, main fail reason : Circuit board break and There is no effect on the maximum tensile force when heat shrinkable sleeve is installed)