

Verification Report

No. CANEC1202163502 A01 Date: 13 Apr 2012


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SHENZHEN CLEAR ILLUMINATING TECHNOLOGY CO.,LTD
BLDG.2,GUANLONG INDUSTRIAL ZONE,XILI,SHENZHEN
CHINA

This report is to supersede Verification Report No.CANEC1202163501 Date: 23 Mar 2012

Sample Name : LED Super-Flex Ribbon
SGS Job No. : CP12-008762 - SZ
Tested Basic Model No. C-FR-F12
(P.O. No.) :
Tested Extended Model No. C-FR-F05
(P.O. No.) :
Client Ref. Info. : See remark
Date of Sample Received : 06 Mar 2012
Verification Period : 06 Mar 2012 - 23 Mar 2012
Verification Requested : With reference to RoHS Directive 2011/65/EU recasting 2002/95/EC.
Verification Method : Please refer to next page(s).
Verification Result : Please refer to next page(s).
Verification Conclusion : Based on the review of previous reports and verification results of the submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU recasting 2002/95/EC.
Note : The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of
SGS-CSTC Ltd.



JENNY LIAO

Approved Signatory

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Verification Method :

1. Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant
2. Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC 62321:2008: Procedures for the Determination of Levels of Six Regulated Substances in Electrotechnical Products
 - (1) Screening by XRF Spectroscopy
 - (2) Wet Chemical Test Method
 - a. Determination of Lead & Cadmium by ICP-OES or AAS
 - b. Determination of Mercury by ICP-OES
 - c. Determination of Hexavalent Chromium by Spot test or Colorimetric Method
 - d. Determination of PBBs and PBDEs by GC-MS

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
1	C-FR-F12- Transparent plastic shell w/ black printing		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	06 Mar 2012
2	C-FR-F12- Silvery metal wire (in No.1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	06 Mar 2012
3	C-FR-F12- White body w/ orange surface (LED) (in No.1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	06 Mar 2012
4 -C	C-FR-F12- Silvery metal wire (connected w/ No.3)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	06 Mar 2012 20 Mar 2012

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
5	C-FR-F05- White plastic shell w/ black printing		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	06 Mar 2012
6	C-FR-F05- Translucent plastic part (connected w/ No.5)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	06 Mar 2012
7	C-FR-F05- White body w/ transparent surface (LED) (in No.6)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	06 Mar 2012
8	C-FR-F05- Silvery metal wire (connected w/ No.7)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	06 Mar 2012

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Remark :

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321(unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not Regulated.

(d) The XRF screening test for RoHS elements - The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) (a) mg/kg = ppm = 0.0001%, ND = Not Detected (<MDL), --- = Not Conducted, - = Without BOM.

(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr(VI) for polymer & composite sample is 2 mg/kg.

* Due to the few amount of sample, MDL of Cr(VI) in Polymer and Composite Materials is 10 mg/kg.

(c) According to IEC 62321, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

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(3) According to the declaration from applicant, the materials of other parts in Model "C-FR-F12" are the same as those in Model "C-FR-F05" and its results for support the results of Model "C-FR-F05". The applicant will take the responsibility of all discrepancy and risk.

Remark: According to declaration from client, the materials in model C-FR-R01, C-FR-F02, C-FR-F03, C-FR-F04, C-FR-F06, C-FR-F07, C-FR-F08, C-FR-R09, C-FR-F10, C-FR-F11, C-FR-F13, C-FR-F14, C-FR-F15, C-FR-F16, C-FR-F17, C-FR-F18, C-FR-F19, C-FR-F20, C-FR-F21 are the same as those in models C-FR-F12, C-FR-F05.

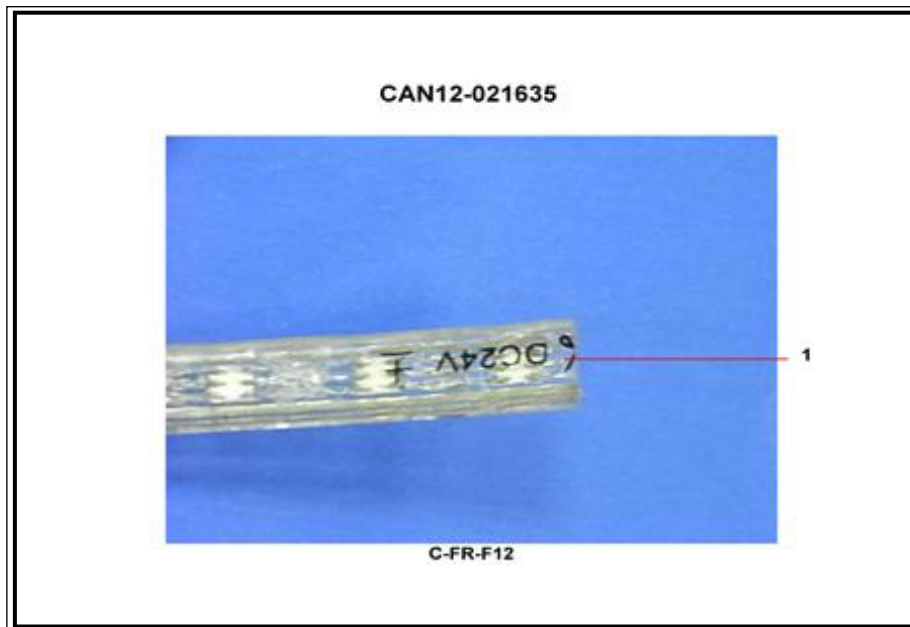
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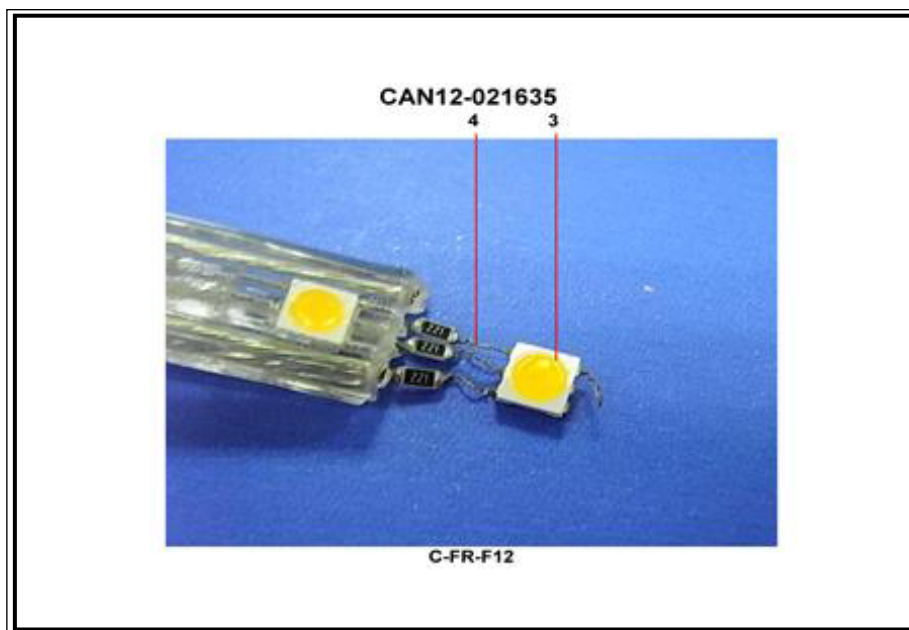
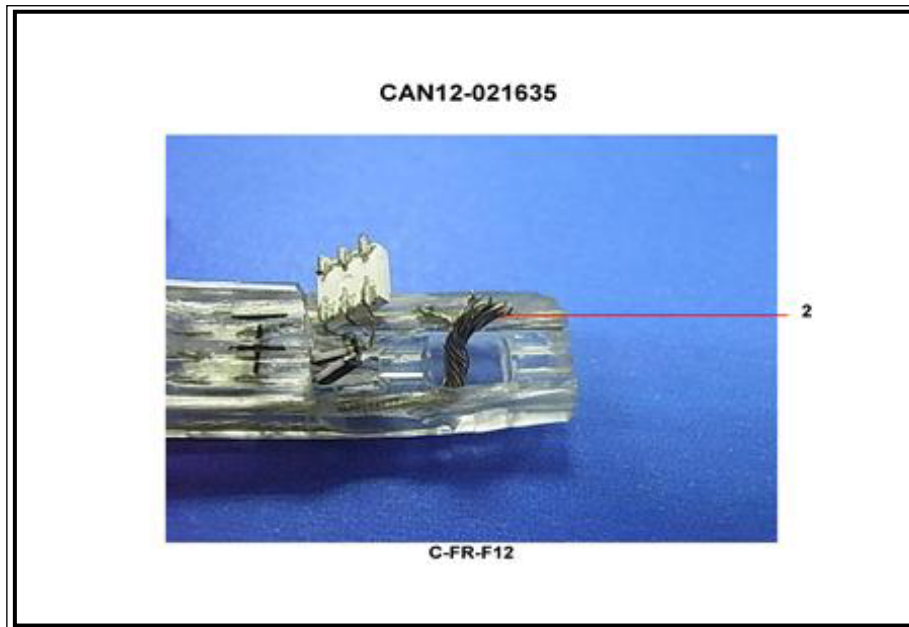
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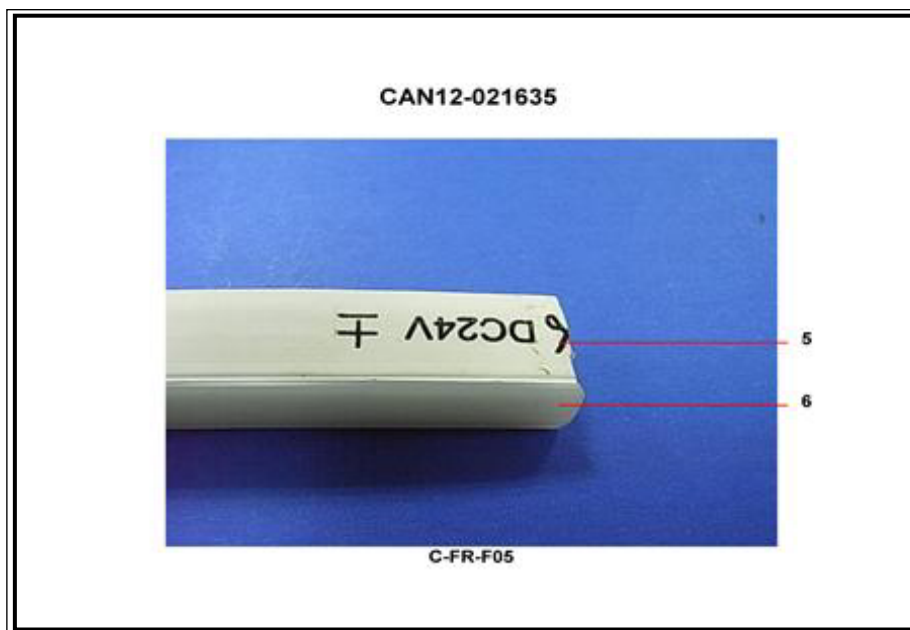
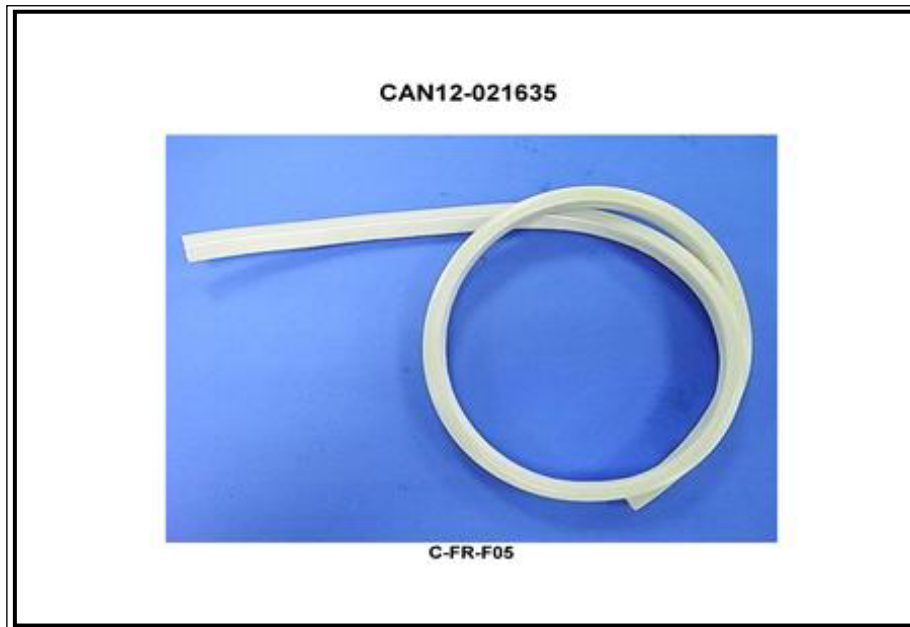
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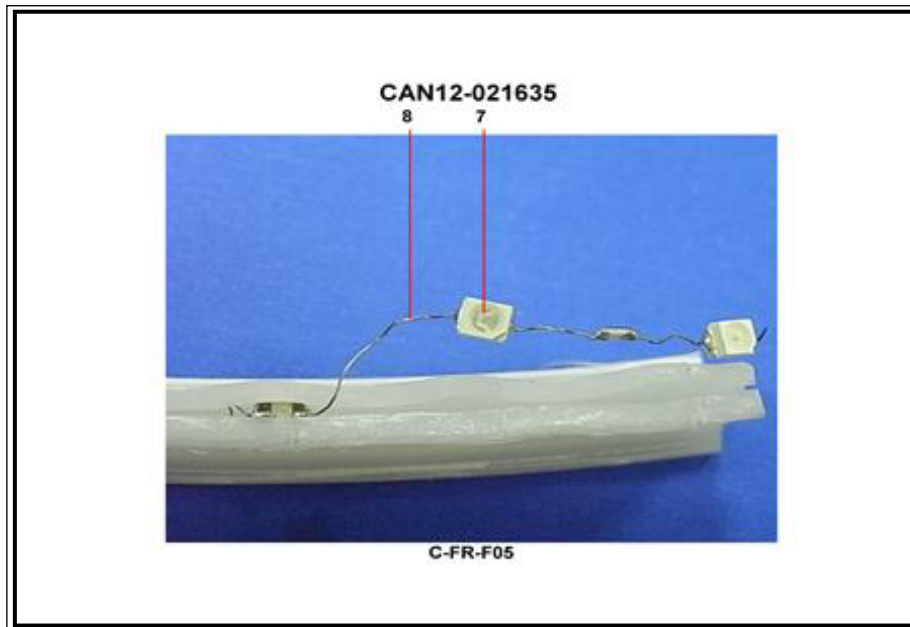
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