

Wiring Harness for LED driver board

121CBL02

DATA SHEET DOD-PP-2592 (6th edition)



**This DATA SHEET is updated document from
DOD-PP-1959(5).**

**All information is subject to change without notice.
Please confirm the sales representative before
starting to design your system.**

INTRODUCTION

The Copyright to this document belongs to TIANMA Japan, Ltd. (hereinafter called "TMJ"). No part of this document will be used, reproduced or copied without prior written consent of TMJ.

TMJ does and will not assume any liability for infringement of patents, copyrights or other intellectual property rights of any third party arising out of or in connection with application of the products described herein except for that directly attributable to mechanisms and workmanship thereof. No license, express or implied, is granted under any patent, copyright or other intellectual property right of TMJ.

Some electronic products would fail or malfunction at a certain rate. In spite of every effort to enhance reliability of products by TMJ, the possibility of failures and malfunction might not be avoided entirely. To prevent the risks of damage to death, human bodily injury or other property arising out thereof or in connection therewith, each customer is required to take sufficient measures in its safety designs and plans including, but not limited to, redundant system, fire-containment and anti-failure.

The products are classified into three grades: "**Standard**", "**Special**", and "**Specific**".

Each quality grade is designed for applications described below. Any customer who intends to use a product for application other than that of Standard is required to contact TMJ sales representative in advance.

The **Standard**: Applications as any failure, malfunction or error of the products are free from any damage to death, human bodily injury or other property (Products Safety Issue) and not related the safety of the public (Social Issues), like general electric devices.

Examples: Office equipment, audio and visual equipment, communication equipment, test and measurement equipment, personal electronic equipment, home electronic appliances, car navigation system (with no vehicle control functions), seat entertainment monitor for vehicles and airplanes, fish finder (except marine radar integrated type), PDA, etc.

The **Special**: Applications as any failure, malfunction or error of the products might directly cause any damage to death, human bodily injury or other property (Products Safety Issue) and the safety of the public (Social Issues) and required high level reliability by conventional wisdom.

Examples: Vehicle/train/ship control system, traffic signals system, traffic information control system, air traffic control system, surgery/operation equipment monitor, disaster/crime prevention system, etc.

The **Specific**: Applications as any failure, malfunction or error of the products might severe cause any damage to death, human bodily injury or other property (Products Safety Issue) and the safety of the public (Social Issues) and developed, designed and manufactured in accordance with the standards or quality assurance program designated by the customer who requires extremely high level reliability and quality.

Examples: Aerospace system (except seat entertainment monitor), nuclear control system, life support system, etc.

The quality grade of this product is the "**Standard**" unless otherwise specified in this document.

CONTENTS

INTRODUCTION 2

1. OUTLINE 4

2. SPECIFICATIONS..... 4

 2.1 GENERAL SPECIFICATIONS 4

 2.2 ABSOLUTE MAXIMUM RATINGS 4

 2.3 CONNECTORS AND CABLES 5

3. PRECAUTIONS 6

 3.1 MEANING OF CAUTION SIGNS 6

 3.2 ATTENTIONS 6

 3.2.1 Handling of the product 6

 3.2.2 Environment..... 6

 3.2.3 Others..... 6

4. OUTLINE DRAWINGS 7

1. OUTLINE

This 121CBL02 is wiring harness for an TMJ LCD module and its LED driver board. It is impossible to use this 121CBL02 wiring harness for other usage. In addition, this 121CBL02 is compliant with the European RoHS directive (2011/65/EU).

2. SPECIFICATIONS



2.1 GENERAL SPECIFICATIONS



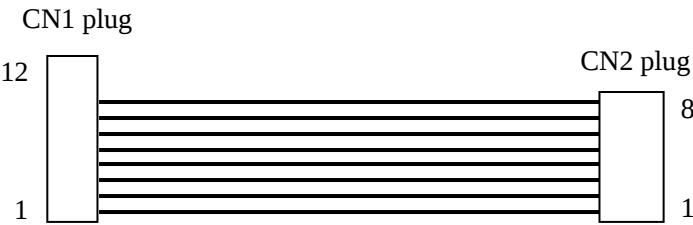
Item	Specification	Unit
Size	See "4. OUTLINE DRAWINGS".	mm
Minimum shipment quantity	1 set (1 set consists of 100 harnesses.)	-
Weight (per set)	200 (typ.)	g

2.2 ABSOLUTE MAXIMUM RATINGS

Parameter	Rating	Unit	Remarks
Voltage	50	V	-
Current	1.0	A	-
Operating temperature	-30 to +80	°C	-

2.3 CONNECTORS AND CABLES

CN1 plug (LED driver board side): SHR-12V-S, (J.S.T. Mfg. Co., Ltd.)
CN2 plug (LCD module side): SHR-08V-S, (J.S.T. Mfg. Co., Ltd.)



CN1 plug		CN2 plug
12		
11		
10		
9		
8		8
7		7
6		6
5		5
4		4
3		3
2		2
1		1

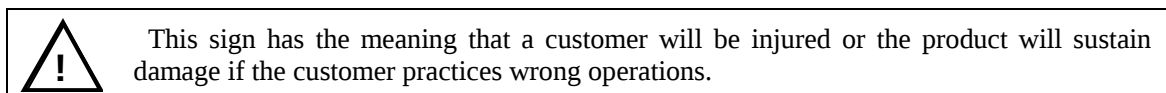
Connection diagram

Note1: CN1: Pin No.9-12 are not used.

3. PRECAUTIONS

3.1 MEANING OF CAUTION SIGNS

The following caution signs have very important meaning. **Be sure to read "3.2 ATTENTIONS"!**



3.2 ATTENTIONS

3.2.1 Handling of the product

- ① Do not plug or unplug the connectors while the product is operating.
- ② Do not hook or pull wiring harness in order to avoid any damage.
- ③ Properly connect the plug to adaptable socket without incomplete connection.

3.2.2 Environment

- ① Do not operate or store in high temperature, high humidity, dewdrop atmosphere or corrosive gases. Keep the product in packing box with antistatic pouch in room temperature to avoid dusts and sunlight, when storing the product.
- ② In order to prevent dew condensation occurred by temperature difference, the product packing box must be opened after enough time being left under the environment of an unpacking room. Evaluate the storage time sufficiently because dew condensation is affected by the environmental temperature and humidity. (Recommended leaving time: 6 hours or more with the original packing state after a customer receives the package)

3.2.3 Others

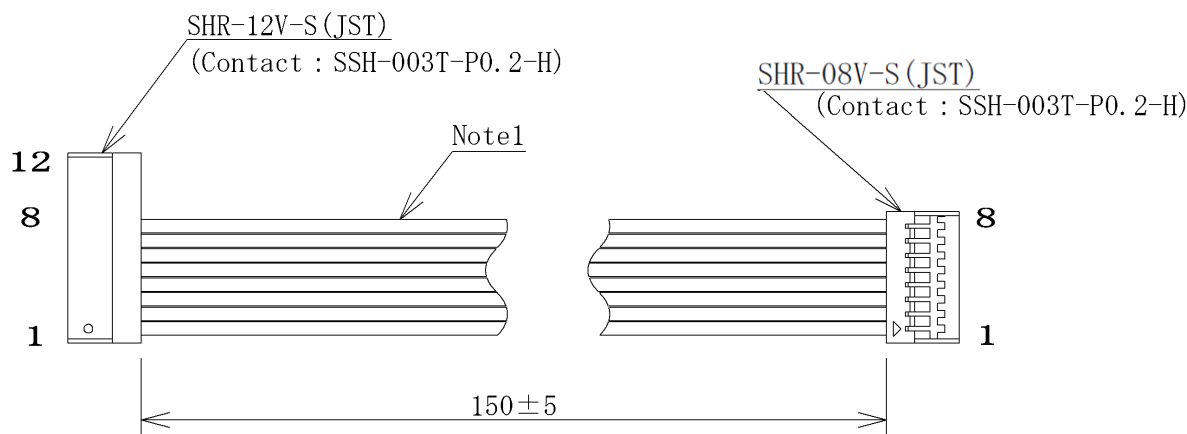
- ① Pack the product with the original shipping package, in order to avoid any damages during transportation, when returning the product to TMJ.
- ② The information of China RoHS (II) six hazardous substances or elements in this product is as follows.

China RoHS (II) six hazardous substances or elements					
Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr VI)	Polybrominated Biphenyls (PBB)	Polybrominated Biphenyl Ethers (PBDE)
○	○	○	○	○	○

Note1: ○: This indicates that the poisonous or harmful material in all the homogeneous materials for this part is equal or below the limitation level of GB/T26572-2011 standard regulation.



4. OUTLINE DRAWINGS



(Unit: mm)

Note1: Cable: UL10368 (105°C 300V) AWG#30, diameter: $\phi 0.8\text{mm}$, Cable color: white.
(Hitachi Cable Fine-Tech, Ltd.)