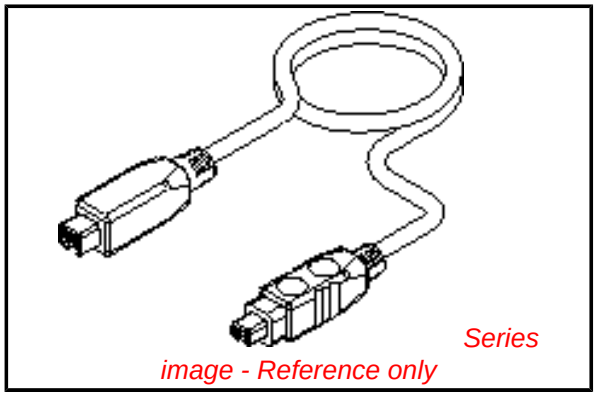
This document was generated on 05/25/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0687690021
**Status:** Active
**Overview:** ieee_1394
**Description:** IEEE 1394B Bilingual 9-pin-to-4-pin Cable Assembly, 1.0m (3.28' ) Length



*Series image - Reference only*

**Documents:**
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-68769-001 (PDF)

## General

| | |
|---|---|
| Product Family | Cable Assemblies |
| Series | 68769 |
| Connector to Connector | IEEE1394b-2002 Both Ends |
| Overview | ieee_1394 |
| Product Name | IEEE 1394 |

## Physical

| | |
|---|---|
| Cable Length | 1.0m (3.28' ) |
| Circuits (Loaded) | 4, 9 |
| Color - Resin | Natural |
| Gender | Plug |
| Lock to Mating Part | Yes |
| Material - Resin | Low Density Polyethylene |
| Packaging Type | Bag |
| Pitch - Mating Interface (in) | 0.031 In |
| Pitch - Mating Interface (mm) | 0.80 mm |
| Single Ended | No |
| Waterproof / Dustproof | No |
| Wire Insulation Diameter | N/A |
| Wire Size AWG | N/A |
| Wire/Cable Type | Round |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 1.5A |
| Impedance | 110 ohms |
| Shield Type | Full Shield |
| Shielded | Yes |
| Voltage - Maximum | 30V DC |

## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Product Specification | PS-68769-001 |
| Sales Drawing | SD-68769-021 |

**EU RoHS**
**ELV and RoHS Compliant**
**REACH SVHC**
**Not Reviewed**
**Halogen-Free Status**
**Not Reviewed**

**China RoHS**

**Need more information on product environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

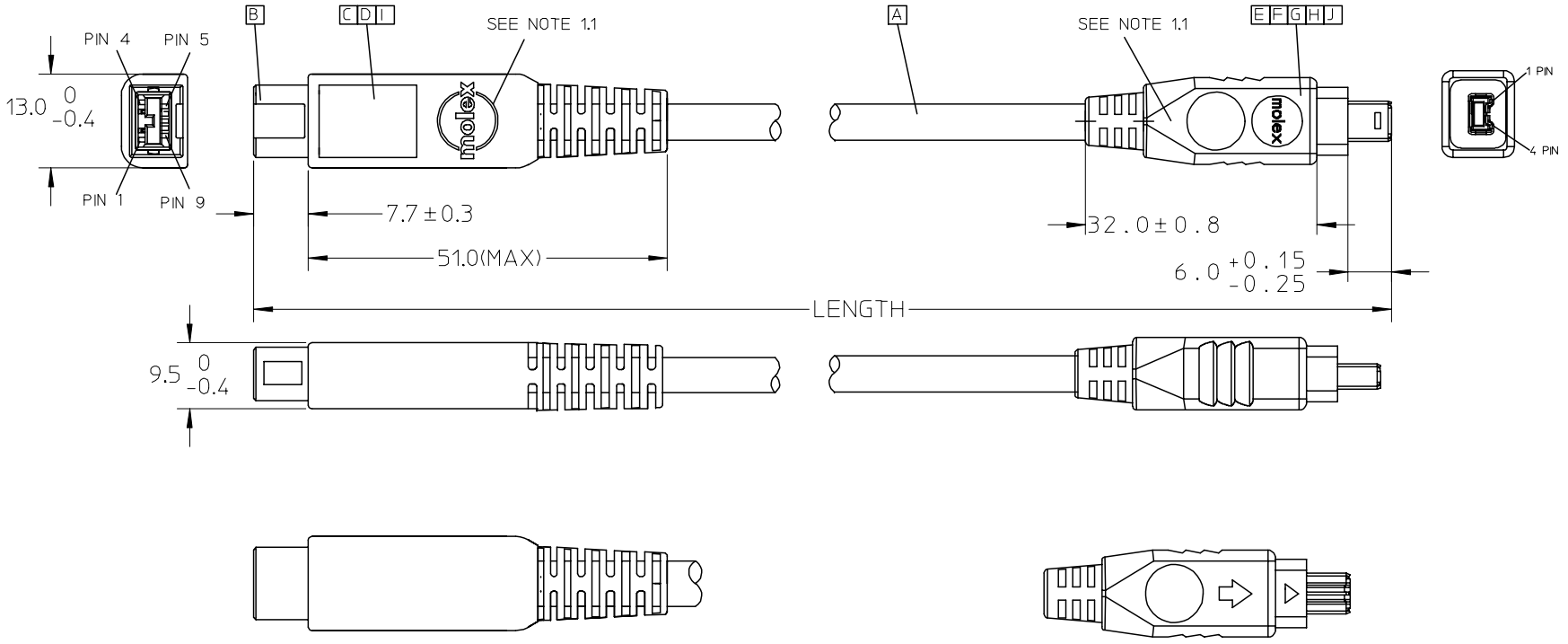
Please visit the Contact Us section for any non-product compliance questions.

**Search Parts in this Series**
68769Series

**Mates With**
44647 IEEE 1394b-2002 Shielded I/O PCB Bilingual Socket. 54515 IEEE P1394a Shielded I/O PCB Socket

This document was generated on 05/25/2010

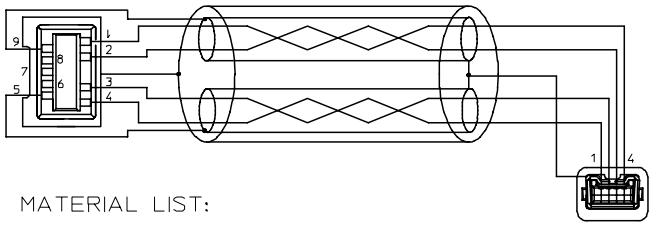
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION




| | | | | | |
|---|---|---|---|---|---|
| ENTER DESCRIPTION<br>EC NO: DG2006-0086 2005/10/15<br>DRWN: JFZHENG 2005/10/17<br>CH'KD: 2006/08/25<br>APPR: DQLUO | DESCRIPTION | QUALITY SYMBOLS<br>▼=0<br>Ⓒ=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm / INCH<br>4 PLACES ± --- / ± ---<br>3 PLACES ± --- / ± ---<br>2 PLACES ± --- / ± ---<br>1 PLACE ± --- / ± ---<br>ANGULAR ±---°<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DIMENSION STYLE: MM ONLY<br>SCALE: ---<br>DESIGN UNITS: METRIC<br>THIRD ANGLE PROJECTION<br>DRAWN BY: JFZHENG DATE: 2005/10/13<br>CHECKED BY: JFZHENG DATE: 2005/10/13<br>APPROVED BY: DQLUO DATE: 2005/10/13<br>MATERIAL NO.: 6876900-21~23<br>SIZE: A4 | TITLE: IEEE1394 9P TO 4P CABLE ASS'Y<br>MOLEX INCORPORATED<br>DOCUMENT NO.: SD-68769-021<br>SHEET NO.: 1 OF 2 |
| 1 | REV | | | | |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

WIRING DIAGRAM:




MATERIAL LIST:

| | | | |
|---|---|---|---|
| I | 1394B SOLDER I/O CONN. 172000528 | | 1 |
| J | MOLD COVER 887899625 | | 1 |
| H | MOLD CASE 887899692 | | 1 |
| G | SHIELD CASE 887899624 | | 1 |
| F | SHIELD CASE CAP 887899623 | | 1 |
| E | PLUG 887899622 | | 1 |
| D | 1394B REAR SHELL;172000530 | | 1 |
| C | 1394B FRONT SHELL,172000529 | | 1 |
| B | 1394 9PIN BILINGUAL PLUG 172000533 | | 1 |
| A | 2P*32AWG+F,SHLD,PVC,GY,4.2MM;1394 4P; 887808446 | | 1 |
| ITEM | DESCRIPTION | L | QTY. |

PIN OUT TABLE

| Plug1: IEEE1394-1995 4-circuit plug contact number | Signal name at plug 2 end: IEEE Std 1394-1995 cable reference | Plug2: Bilingual plug contact number |
|---|---|---|
| 3 | TPB*(Twisted pair B Minus) (RED) | 1 |
| 4 | TPB(Twisted pair B Plus) (GREEN) | 2 |
| 1 | TPA*(Twisted Pair A minus) (BLUE) | 3 |
| 2 | TPA(Twisted pair A Plus) (Orange) | 4 |
| plug shield | TPA(R)( Twisted Pair A Ground Rederence) | 5 |
| no connection | VG(Power Ground) | 6 |
| no connection | NO connection | 7(no connection) |
| no connection | Vp(Power Voltage) | 8 |
| plug shield | TPB(R)(Twisted Pair B Ground Reference) | 9 |
| no connection | Cable Shield Ground | Plug shield |

NOTE:

1. 9PIN OVEROLD WITH GREY PVC 887800152.

4PIN OVERMOLD WITH GREY PVC 887800153

| TABLE A | | |
|---|---|---|
| 68769-0023 | 1394B BILINGUAL 9P TO 4P 4.5M GREY | 4500±40 |
| 68769-0022 | 1394B BILINGUAL 9P TO 4P 2.0M GREY | 2000±25 |
| 68769-0021 | 1394B BILINGUAL 9P TO 4P 1.0M GREY | 1000±25 |
| MX P/N | DESCRIPTION | LENGTH |

ENTER DESCRIPTION
EC NO: DG2006-0086 2005/10/15
DRWN: JFZHENG 2005/10/17
CH'KD:
APPR: DQLUO 2006/08/25
DESCRIPTION
1
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JFZHENG DATE: 2005/10/13
CHECKED BY: JFZHENG DATE: 2005/10/13
APPROVED BY: DQLUO DATE: 2005/10/13

TITLE: IEEE1394 9P TO 4P CABLE ASS'Y

MOLEX INCORPORATED

MATERIAL NO.: 6876900-21~23
DOCUMENT NO.: SD-68769-021
SHEET NO.: 2 OF 2

SIZE A4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION