| 製品仕様書/Product Specification | No. | IS-968 | 3 6 T | 来歷 | / |
|--|--------------------|-----------|-------|----------|-----|
| 表面上版画/ Trouder Specification | 頁/Page | 1/9 | | | |
| 標題:9686 シリーズ 0.5 mmピッチ FPC/FFC コネクタ | 制定年月日/ISSUUED DATE | | | 2012-11- | 22 |
| SUBJECT: Series 9686 0.5mm Pitch FPC/FFC Connector | 改訂年月日/REV | TSED DATE | | 2013-5 | -15 |

1. 適用範囲

本仕様書はイリソ電子工業株式会社製 9686 シリーズ 0.5 mmピッチ FPC/FFC コネクタに関する仕様及び 性能上の必要事項について規定する。

2. 構造及び寸法

3. 定格

(1)最大定格電圧 : 50V (AC、DC)

(2)最大定格電流 : 0.5A

(3)使用温度範囲 : -40~+105℃

4. 試験環境

常 温 : 15~35℃

常湿: 25~85%RH(相対湿度)

5. 性能

5-1. 電気的性能

1. Scope

This product specification is applied for IRISO ELECTRONICS CO.,LTD. Series 9686 0.5mm Pitch FPC/FFC Connector.

2. Configuration, dimensions and materials

See the product drawing attached.

FPC/FFC Mated: 0.5mm Pitch, $t=0.3\pm0.05$ mm Applied to socket: IMSA-9686S-***-GFN1/GFN2/GFN4

••

3. Rating

(1) Maximum rating voltage : 50 V(AC,DC)

(2) Maximum rating current : 0.5A

(3)Temperature range : $-40\sim+105^{\circ}$ C

4. Performances

All performance test, unless otherwise specified, is taken

as per following environmental conditions. Ambient temperature : $15\sim35^{\circ}$ C Ambient humidity : $25\sim85^{\circ}$ RH

5. Performance

5-1. Electrical performance

| | O I. EXMITTE | <u>5-1.Electrical performance</u> | | | | |
|---|--------------------|--|--|--|--|--|
| | 項目/Item | 条件/Test condition | 規格/Specification | | | |
| 1 | 接触抵抗 | 短絡電流 1mA、最大開放電圧 20mV、周波数 1kHz のローレベル | 初期值:30mΩ以下 | | | |
| | Contact Resistance | 抵抗計にて測定する。 | 各試験後:50mΩ以下 | | | |
| | | It shall be measured by the dry electric circuit specified as follows; | Initial: 30 m Ω or below. | | | |
| | | 1mA, 20mV, 1kHz frequency. | After each test : 50 m Ω or below | | | |
| 2 | 耐電圧 | 隣接する極間に AC250V を 1 分間印加する。 | 絶縁破壊等異常のない事。 | | | |
| | Dielectric | AC 250V shall be applied for one minute to between next terminals | Should not have any changes. | | | |
| | Withstanding | and the earth . | | | | |
| | Voltage | | | | | |
| 3 | 絶縁抵抗 | 隣接する極間に DC200V を印加する。 | 初期值:100MΩ以上 | | | |
| | Insulation | DC 200V shall be applied to between next terminals. | 耐湿試験後:100MΩ以上 | | | |
| | resistance | | Initial: $100 M \Omega$ or more. | | | |
| | | | After humidity test: $100M \Omega$ or more | | | |
| 4 | 外観 | 目視 | 有害となる割れ、剥がれ、ガタ、変形、 | | | |
| | Appearance | Visual | 変色のない事。 | | | |
| | | | Should not have any flaw, scratch, | | | |
| | | | discoloration, and crushed. | | | |

5-2. 機械的特性

5-2. Functional Performance

| | 5-2. 機械的特性 | 5-2. Functional Performance | | | |
|---|-------------------|---|------------------------------------|--|--|
| | 項目/Item | 条件/Test condition | 規格/Specification | | |
| 1 | 端子の保持力 | 端子に 25mm/分の速度で荷重を加え、端子がハウジングより抜け始め | 0.98N以上 | | |
| | | るまでの荷重を測定する。 | 0.98N or more | | |
| | Contact retention | It shall be pulled to the contact at the speed of 25mm per | | | |
| | force | minute, and measured the force when the contact begins to | | | |
| | | remove from the housing. | | | |
| 2 | 挿抜耐久性 | FPC/FFC を 20 回繰返し挿抜を行ない接触抵抗を測定する。 | 50mΩ以下 | | |
| | Insertion | (カバーを開閉し、開時毎に挿抜する。) | 50 m Ω or below. | | |
| | /Extraction | The FPC/FFC shall be mated and unmated 20 times and measured | | | |
| | endurance | The contact resistance. | | | |
| 3 | 振動試験 | FPC/FFC を嵌合した状態にて、振動周波数 10~500~10H z / 掃引時 | 試験中1μs以上の瞬断の無き事。 | | |
| | Vibration test | 間 12 分、振幅 1.5 mm、又は加速度 98 m/ s^2 のいずれか小さい方にて X | 50mΩ以下 | | |
| | | YZ軸方向に各2時間計6時間の振動を加える。試験中、瞬断の有無の | 外観:異常なきこと | | |
| | | 確認、試験後の接触抵抗の測定及び外観観察をする。 | Discontinuity : 1μ s or less. | | |
| | | The connector and FPC/FFC mated is vibrated in the frequency | 50 m Ω or below. | | |
| | | range of $10\sim500\sim10$ Hz/12min and in the constant vibration | Should not have any damages | | |
| | | amplitude 1.5mm or the acceleration of 98m/s2. This motion is | | | |
| | | applied for period of 6 hours in one of 3 multilateral perpendicular | | | |
| | | directions (X,Y,Z-axis) included mating axis. It shall be tested the | | | |
| | | discontinuity of the contact current during the test and measured the | | | |
| | | contact resistance and observed its appearance after the test. | | | |

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| | 項目/Item | 条件/Test condition | 規格/Specification |
|---|------------------|---|--|
| 4 | 衝擊試験 | FPC/FFCを嵌合した状態にて治具に取り付け、加速度 980m/s²、 | 試験中1μs以上の瞬断の無き事。 |
| | Shock test | 衝撃作用時間 6ms を X,Y,Z,方向の 6 面に各10回加え、試験中の | 50mΩ以下 |
| | | 瞬断の有無の確認、試験後の接触抵抗の測定及び外観観察する。 | 外観:異常なきこと |
| | | The connector and FPC/FFC mated are installed in the machine. | Discontinuity : 1μ s or less. |
| | | They are applied pulses 10 times to each 6 faces of 3 mutually | $50 \mathrm{m}\Omega$ or below. |
| | | perpendicular directions(X,Y,Z); in conditions as specified; | Should not have any damages |
| | | acceleration of 980m/s ² and shock pulses for a duration of 6ms. | |
| | | It shall be tested the discontinuity of the contact current during the | |
| | | test and measured the contact resistance and observed its | |
| | AN Lates have | appearance after the test | At A light Let Land by the first and the first |
| 5 | 微加振試験 | 微加振試験機にて、コネクタを試験基板に取付け、全極直列に接続する。 | 総合接触抵抗が初期値の2倍以下 |
| | Contact Pressure | The connector are set on a P.C.B and all of their terminals are wired | Twice or less from the initial specified |
| | | in series then tested by test facility. | value in total. |
| | | 通電電流 current : 1mA以下 1mA or below | |
| | | 衝撃値 shock : 980m/s ² | |
| | | 周波数 frequency : 1Hz | |
| | | 衝擊回数 cycling : 20000回 20000 times | |
| | | 上記条件にて、試験中及び試験後の接触抵抗を測定する。 | |
| | | It shall be measured the contact resistance after the test. | |
| 6 | FPC/FFC 保持力 | FPC/FFCに25mm/分の速度で加重を加え、ハウジングより | 0.29N/極 以上 |
| | FPC/FFC | 抜け始めたときの荷重を測定する。 | 0.29N/PIN or more. |
| | retention force | The FPC/FFC shall be pulled at the speed of 25mm per minute and | |
| | | measured the force when the FPC/FFC begins to remove from the | |
| | | housing. | ,, |

- 3. 環境特性 5-3.Environmental performa

| | 5-3. 環境特性 | 5-3.Environmental performance | | | | |
|----------|--------------------|---|---|--|--|--|
| | 項目/Item | 条件/Test condition | 規格/Specification | | | |
| 1 | 高温保存試験 | FPC/FFC を 5 回挿抜後嵌合した状態にて温度 105±2℃の恒温槽に | 50mΩ以下 | | | |
| | Heat resistance | 1000 時間放置し、放置後接触抵抗測定及び外観観察を行う。 | 外観異常なき事。 | | | |
| | | The connector and FPC/FFC mated are unmated at 5 times mated is | $50 \mathrm{m}\Omega$ or below. | | | |
| İ | ' | exposed in the heat chamber $105\pm2^{\circ}$ C for 1000 hours. It shall be | Should not have any damages. | | | |
| | | measured the contact resistance and observed its appearance after | | | | |
| | | the test. | | | | |
| 2 | 高温高湿保存試験 | FPC/FFC を 5回挿抜後嵌合した状態にて温度 40±2℃、相対湿度 | 50mΩ以下 | | | |
| | Humidity | 90~95%RH の恒温恒湿槽に 1000 時間放置し、放置後接触抵抗測定 | 外観異常なき事。 | | | |
| | | 及び外観観察を行う。 | $50 \mathrm{m}\Omega$ or below. | | | |
| | | The connector and FPC/FFC mated are unmated at 5 times mated is | Should not have any damages. | | | |
| | | exposed in the heat chamber $40\pm2^{\circ}$ C, $90\sim95\%$ RH for 1000 hours. It | | | | |
| | | shall be measured the contact resistance and observed its | | | | |
| | | appearance after the test. | | | | |
| 3 | 低温保存試験 | FPC/FFC を5回挿抜後嵌合した状態にて温度-40±3℃の低温槽に | 50mΩ以下 | | | |
| | Chilly resistance | 1000 時間放置し、放置後接触抵抗測定及び外観観察を行う。 | 外観異常なき事。 | | | |
| | | The connector and FPC/FFC mated are unmated at 5 times mated is | $50\mathrm{m}\Omega$ or below. | | | |
| | | exposed in the chilly chamber-40±3°C for 1000 hours. It shall be | Should not have any damages. | | | |
| | | measured the contact resistance and observed its appearance after | | | | |
| <u> </u> | MAND A HEADEN | the test. | An A legal large 18 should be a content of | | | |
| 4 | 低温負荷試験 | FPC/FFC を 5 回挿抜後嵌合状態にて通電電流 1mA 、 $-40 \pm 2 \text{C}$ の | 総合接触抵抗が初期値の2倍以下 | | | |
| | Load of chill | 低温槽中に96時間放置する。 | 外観異常なき事。 | | | |
| | | The connector and FPC/FFC mated are unmated at 5 times mated is | Twice or less from the initial specified | | | |
| | | exposed in the chilly chamber $-40\pm2^{\circ}$ C, 1mA for 96 hours. It shall be | value in total. Should not have any damages. | | | |
| | VA まわくエつまた⇒ NEA | measured the contact resistance after the test. | | | | |
| 5 | 冷熱衝撃試験 | FPC/FFCを5回挿抜後嵌合した状態にて下図の温度条件を1サイクルとし | 50mΩ以下 | | | |
| | Thermal shock test | て 100 サイクル実施し、試験後接触抵抗測定及び外観観察を行う。 | 外観異常なき事。 | | | |
| | | The connector and FPC/FFC mated are unmated at 5 times is | $50 \mathrm{m}\Omega$ or below. | | | |
| | | exposed 100 cycles in the following temperature conditions. It shall be measured the contact resistance and observed its appearance | Should not have any damages. | | | |
| | | after the test. | | | | |
| | | +85±2°C | | | | |
| | | 30min | | | | |
| | | 常温 Ambient | | | | |
| | | temperature - 30min - | | | | |
| | | -55±3°C - 30mm | | | | |
| | | 1 cycle | | | | |
| | | 1 Cycle | | | | |
| \Box | | | | | | |

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| | 項目/Item | 条件/Test condition | 規格/Specification |
|---|------------------------------|--|----------------------------------|
| 6 | 温湿度 | FPC/FFCを5回挿抜後嵌合した状態にて下図の温度条件を1サイクルとし | 50mΩ以下 |
| | サイクル試験 | て 7 サイクル実施し、試験後接触抵抗測定及び外観観察を行う。 | 外観異常なき事。 |
| | Humidity | The connector and FPC/FFC mated are unmated at 5 times mated is | 50 m Ω or below. |
| | resistance | exposed 7 cycles in the following temperature conditions. It shall be | Should not have any damages. |
| | | measured the contact resistance and observed its appearance after | |
| | | the test. | |
| | | +80±2°C | |
| | | 95%RH | |
| | | | |
| | | -20±3℃ | |
| | | 3h 9h 3h 9h | |
| | | < → < → < → | |
| | | 1cycle | |
| 7 | H ₂ S ガス試験 | FPC/FFC を嵌合した状態にて、温度 40±2℃相対湿度 75%、濃度 | 50mΩ以下 |
| | H ₂ S gas test | 3±1ppm の雰囲気中に 96 時間放置し、試験後接触抵抗を測定する。 | 外観異常なき事。 |
| | | The connector and FPC/FFC mated is exposed in the H ₂ S gas | $50 \mathrm{m}\Omega$ or below. |
| | | chamber $40\pm2^{\circ}$ C,75% RH 3 ± 1 ppm for 96 hours. | Should not have any damages |
| | | It shall be measured the contact resistance after the test. | , , |
| 8 | SO2ガス試験 | FPC/FFC を嵌合した状態にて、温度 40±2℃相対湿度 75%、濃度 | 50mΩ以下 |
| | SO ₂ gas test | 10±3ppm の雰囲気中に 96 時間放置し、試験後接触抵抗を測定する。 | 外観異常なき事。 |
| | | The connector and FPC/FFC mated is exposed in the SO ₂ gas | $50 \mathbf{m} \Omega$ or below. |
| | | chamber $40\pm2^{\circ}\text{C},75\%$ RH 10 ± 3 ppm for 96 hours. | Should not have any damages |
| | | It shall be measured the contact resistance after the test. | |
| 9 | 塩水噴射試験 | FPC/FFC を嵌合した状態にて、温度 35±2℃、濃度 5±1%の塩水噴霧 | 50mΩ以下 |
| | Salt spray test | 中に 48 時間放置し、試験後接触抵抗を測定する。 | 外観異常なき事。 |
| | | The connector and FPC/FFC mated is exposed in the salt spray | $50 \mathrm{m}\Omega$ or below. |
| | | chamber $35\pm2^{\circ}\text{C}, 5\pm1^{\circ}\text{M}$ salt density for 48 hours. | Should not have any damages |
| | | It shall be measured the contact resistance after the test. | |

| 5-4. | その他の性能 |
|------|--------|
| | |

5-4.Other specification

| | 項目/Item | 条件/Test condition | 規格/Specification |
|--------|---------------------|---|-------------------------------------|
| 1 | 半田付け性 | コネクタの半田付け部をフラックスニ浸漬した後、245±5℃の Sn-Ag-Cu系 | 浸した面積の95%以上に半田が |
| | Solderability | の鉛フリー半田槽に 3±0.5 秒浸す。 | むらなく付着する事。 |
| | | The terminal of connector shall be put into the flux and dipped into | Solder shall be covered 95% or more |
| | | Pb free solder bath(Type of Sn-Ag-Cu) $245\pm5\%$, $3\pm0.5\mathrm{s}$. | of the area that is Dipped into the |
| | | | solder bath |
| 2 | 半田耐熱性 | 下記条件にて、半田耐熱性試験を行う。 | 実使用上の問題無き事 |
| | Soldering heat test | The connector shall be tested resistance to soldering heat in the | Should not have any problems. |
| | | following conditions. | |
| | | 条件①: リフローの場合(2回)/In case of reflow(2times) | |
| | | 250°CMAX.(t゚-ウ温度)、10s MAX. | |
| | | (Peak temperature) | |
| | | 7 | |
| | | 180°C | |
| | | 150℃ | |
| | | 150 C | |
| | | _ | |
| | | 90±30s . 230°CMIN. | |
| | | 30~60s | |
| | | (予熱 150~180°C) | |
| | | (pre-heat: from 150 to 180°C) | |
| | | 温度は製品上面の温度とする。 | |
| | | 「加速な表現日上国ウイ加速とする。 The temperature shall be measured on the surface of the Product. | |
| | | The temperature shall be measured on the surface of the Froduct. | |
| | | 条件②: 手半田の場合/In case of manual soldering. | |
| | | 半田鏝温度/Solder iron : 350±5℃ | |
| | | 中間/time : 3±0.5s | |
| 3 | 温度上昇試験 | 最大許容電流を通電し、熱電対法にてコネクタの温度上昇を測定する。 | 温度上昇:30℃以下 |
| | Raise of | The connector shall be operated in the maximum raise of current | Raise of temperature: |
| | temperature test | and measured raise of the temperature at contact point. | 30°C or below |
| \Box | competatate cost | and modeled range of the temperature at contact points. | OO C OI DCIOW |

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6. 製品の保管期限

製造日より1年とする。

6.Term of a guarantee

1 year from product day.

7.保存保管条件

室温で-10~+40℃の温度、75%以下の相対湿度で保管してください。

7.Storage conditions

Shall be storaged in the house at -10 \sim +40 $^{\circ}$ C,75%RH or less .

8.故障率

MIL-HDBK-217D,2-11,2 プリント配線板コネクタに基づいて算出を行う。(単位:FIT)

8.Failure rate

Failure rate shall be calculated as MIL-HDBK-217D,2-11,2 (Unit : FIT) $\,$

| 極数/ckt | 故障率/Failure rate | 極数/ckt | 故障率/Failure rate | 極数/ckt | 故障率/Failure rate | 極数/ckt | 故障率/Failure rate |
|--------|------------------|--------|------------------|--------|------------------|--------|------------------|
| 4 | 1.76 | 16 | 3.51 | 28 | 5.40 | 40 | 7.60 |
| 5 | 1.92 | 17 | 3.66 | 29 | 5.57 | 41 | 7.80 |
| 6 | 2.07 | 18 | 3.80 | 30 | 5.74 | 42 | 8.01 |
| 7 | 2.22 | 19 | 3.96 | 31 | 5.91 | 43 | 8.21 |
| 8 | 2.36 | 20 | 4.11 | 32 | 6.09 | 44 | 8.42 |
| 9 | 2.50 | 21 | 4.26 | 33 | 6.27 | 45 | 8.64 |
| 10 | 2.64 | 22 | 4.42 | 34 | 6.45 | 46 | 8.85 |
| 11 | 2.79 | 23 | 4.58 | 35 | 6.64 | 47 | 9.07 |
| 12 | 2.93 | 24 | 4.74 | 36 | 6.83 | 48 | 9.29 |
| 13 | 3.07 | 25 | 4.90 | 37 | 7.02 | 49 | 9.51 |
| 14 | 3.22 | 26 | 5.06 | 38 | 7.21 | 50 | 9.74 |
| 15 | 3.36 | 27 | 5.23 | 39 | 7.41 | | |

⚠ 9. 和文と英文の差異について

和文と英文の内容に差異が生じた場合には、 和文の内容を優先致します。

9. Difference between Japanese and English

When difference is found between Japanese specifications and English specifications, priority shall be given to Japanese.

FPC/FFC 用コネクタ

Connector for FPC/FFC

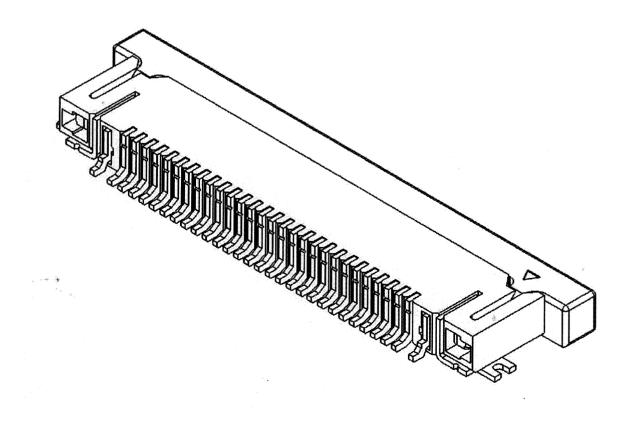
I - LOCK タイプ

取り扱い説明書

I-LOCK type Manual

適用製品:9686 シリーズ

Application product: 9686series



《コネクタの操作方法と注意点/Operation method and notes of connector》

・ 9686 シリーズ I-LOCK 1.0mm ピッチ L型/9686 series I-LOCK 1.0mm pitch L type.

※量産前にご使用になる FPC/FFC との相性確認を行った上で、ご使用をお願い致します。

Please check the compatibility between the connector and the FPC/FFC prior to mass production.

※図表記号の説明/Explanation for mark in below table



弊社推奨操作方法/Our recommendation operation method,



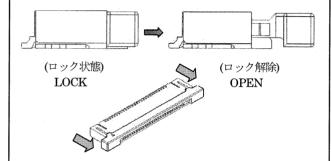
NG 操作方法/ Method of operating NG

操作方法/Operation method

1. FPC/FFC 挿入方法 Method of inserting FPC/FFC

①スライダーの両端を同時に手前に引き出し、ロックを解除します

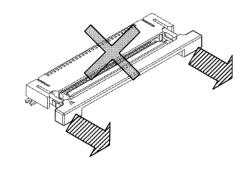
Both ends of the slider are drawn out forward at the same time and the lock is released.



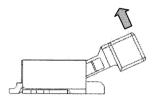
使用上の注意点/Directions point

スライダーは軽い力で引き出せます。無理な力をかけると 破損の原因になります。

The slider can be drawn out by light load. Please note too much load. It causes damage.

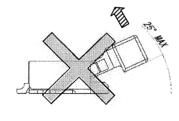


②スライダーを少しだけ上方向に引き上げます。 これにより FPC/FFC を挿入し易くすることが出来ます。 The slider is improved only a little for above. As a result, FPC/FFC can be made easy to insert.



スライダーを無理に上方向に引き上げないで下さい。 破損の原因になります。

Please do not improve the slider forcibly for above. It causes damage.



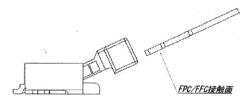
操作方法/Operation method

③ FPC/FFC の導体面を下にして挿入します。 奥まで確実に挿入して下さい。その際「カチッ」とした 挿入感が得られると、奥まで挿入されたことが確認でき

※FPC/FFC を挿入する際には、FPC/FFCの補強板 箇所をしっかり持って挿入して下さい。その為、FPC/ FFC は補強板の長さが 15mm 以上のものを推奨致しま

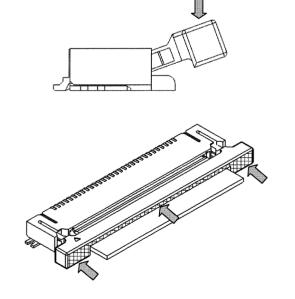
The conductor side of FPC/FFC is done up and inserted. Please insert it in the interior surely. When the click feeling is obtained when inserting it, it can be confirmed to have been inserted in the interior.

Please insert the reinforcement board part of FPC/FFC firmly having it when you insert FPC/FFC. Therefore, FPC/FFC will recommend dimension of supporting tape is 15mm or more.



スライダーを押し下げ、全面(網かけ部)を押し込みま

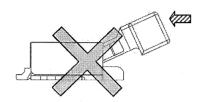
The slider is depressed, push full (part of net) of slider the same time.



使用上の注意点/Directions point

スライダーを押し上げたまま押し込まないで下さい。必ず 押し下げてから押し込んで下さい。 破損の原因になります。

Please do not push it with the slider pushed up. Please push it after it depresses it. It causes damage.

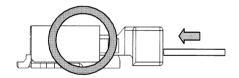


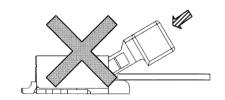
FPC/FFCの補強板箇所を持たないで FPC/FFC を挿入 しようとすると、カードが変形するなどして作業性が悪く なる可能性があります。

There is a possibility that work worsens by transforming the card if it tries to insert FPC/FFC without having the reinforcement board part of FPC/FFC.

スライダーを傾けたまま押し込まないで下さい。必ずスラ イダーを水平な状態に戻してから押し込んで下さい。 破損の原因になります。

Please do not push it when the slider is inclining. Please push slider after it return to horizontally. It causes damage.





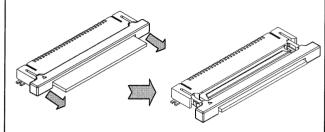
操作方法/Operation method

2. FPC/FFC 抜去方法

Method of pulling out FPC/FFC

① スライダーの両端を同時に手前に引き出しロックを解除して、FPC/FFCを引き抜いて下さい。

Both ends of the slider are pulled out, and please release the drawing out lock forward at the same time, and pull out FPC/FFC.

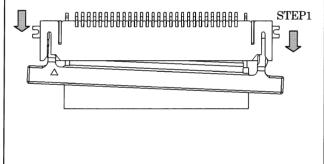


% Note

多極等などでスライダーが引き出しにくい場合などは片側ず つ引き出すと、より操作がし易くなる場合がございます。

The more operation might come to do easily if it one side draws it out when the slider is not drawn out easily by the fact that the number of poles is large etc. The slider is depressed, and both ends are pushed at the same time.

STEP2

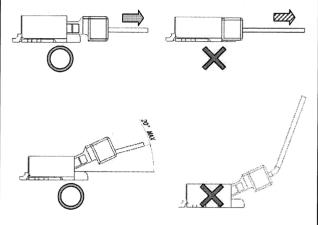


使用上の注意点/Directions point

① ・スライダーをロックした状態で、FPC/FFCを引き抜かないで下さい。

引き抜く際は必ずロックを解除した状態で引き抜いて下さい。又、その時はカードを極度に上方向に傾けて引き抜かないで下さい。

Please do not pull out FPC/FFC with the slider locked. Please pull it out when you pull it out with the lock released without fail. Moreover, please do not pull it out extremely inclining the card for above at that time.

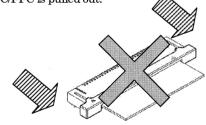


・ FPC/FFC を挿入した状態でスライダー引き出し時、過度 の荷重をかけないで下さい。

破損の原因になります。特に FPC/FFC 抜去時には十分 ご注意下さい。

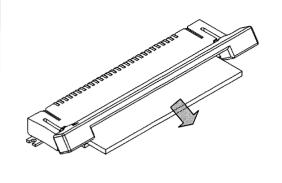
Please do not apply an excessive load when you draw out the slider with FPC/FFC inserted.

It causes damage. Especially, be careful enough when FPC/FFC is pulled out.



操作方法/Operation method

② FPC/FFC を真っ直ぐに引き出します。 Pull out the FPC/FFC straight.

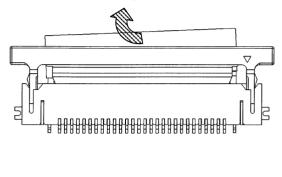


使用上の注意点/Directions point

FPC/FFCを引き抜く際、下図のような状態で斜めに傾けたまま無理に引き抜くと、破損の原因になります。必ず、一度押し戻してから引き抜いて下さい。

When FPC/FFC is pulled out, it causes damage when forcibly diagonally pulling it out while inclined as shown in the figure below.

Please pull it out after it pushes once.



・その他/Performance

FPC/FFCの挿抜に関して、FPC/FFCの種類によっては、 下記切かき部 (丸枠) の剥がれ等が発生する場合があります。 剥がれ等が発生した場合、接触不良になる可能性がありますので、事前にご確認の上、使用する FFC/FPC の選定を お願い致します。 また、挿抜回数を少なくすることにより剥がれの抑制が出来ます。

Please confirm A of FPC/FFC (see below) after durability.

Insulation occurs to fall off surface of FPC/FFC due to material of FPC/FFC by scratch. Then electrical contact open.

