

# Technical Specifications

SWIFT-FX PSPL Hardened Fusion SOC  
for 4.8x2.4mm

*HFSOC-A2-SC/APC-PSPL-4824*

| Mating Tech. | Connector type | Fiber type     | Cable          |
|--------------|----------------|----------------|----------------|
| Push-Pull    | SC/APC         | G.657.A1 or A2 | Flat 4.8x2.4mm |

## 1. General

UCL's PSPL Hardened FSOC series are field installable hardened connector terminated on UCL's All-In-One fusion splicer(KF4A-HDC and K33A-HDC) and figure out the concerns of OSP design technician, extra cable slack which cause to increase cost and not easy maintenace.

This technical specification describes the information of the components and the characteristics of UCL Hardened Fusion SOC(SC type) designed with PushPull mating and field installable with 4.8x2.4mm drop cable, then operating with UCL PSPL hardened terminal series.

## 2. Features and Benefits

- Eliminates cable shorts and excess slack, just in length installation
- Cost and Inventory effective, comparing with Preconn solution
- Quick and Easy connection mechanism, PushPull mating technology with PSPL Terminal
- Compact size(SFF), comparing with conventional screw type hardened connector
- Fusion technology shows better optical performance versus mechanical splice connector

## 3. Specifications

### 3.1 Optical Perfomance

|                           |                |      |                        |
|---------------------------|----------------|------|------------------------|
| Singlemode<br>(OS1 & OS2) | Insertion Loss | Typ. | 0.15dB                 |
|                           |                | Max  | 0.30dB                 |
|                           | Return Loss    | min. | 55dB (UPC), 65dB (APC) |

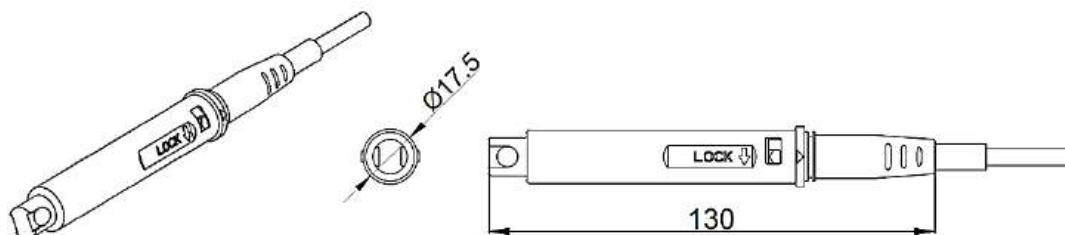
### 3.2 Temperature Range

|           |               |
|-----------|---------------|
| Operation | -40°C to 75°C |
|-----------|---------------|

### 3.3 Mechanical Properties

|                           |                                |
|---------------------------|--------------------------------|
| Plug/Adapter tensile load | 0 degree, 11.3 kgf, 60 seconds |
| Plug/Adapter side pull    | 90 degree, 6.8 kgf, 60 seconds |

## 4. Dimension



## 5. Ordering Information

| Part Number               | Product Description                                             |
|---------------------------|-----------------------------------------------------------------|
| HFSOC-A2-SC/APC-PSPL-4824 | G.657.A2, SC/APC , PushPull type, Assembly with 4.8x2.4mm cable |
| HFSOC-A1-SC/APC-PSPL-4824 | G.657.A1, SC/APC , PushPull type, Assembly with 4.8x2.4mm cable |

## 6. Splicing & Heating Condition on KF4A-HDC

| Mode          | Condition                                |
|---------------|------------------------------------------|
| Splicing Mode | 12. G657A2B2 / 1. SM ITU-T G652          |
| Heating Mode  | 10. Temp. : 170~190 Deg. Time : 40~50sec |

## 7. Products for Installation

| Classification | Product Number | Description                                              |
|----------------|----------------|----------------------------------------------------------|
| Fusion Splicer | KF4A-HDC       | UCL Fusion Splicer, Cladding Splicer                     |
| Fusion Splicer | K33A-HDC       | UCL Fusion Splicer, Core Splicer                         |
| FSOC Holder    | HF4-SC/FC      | FSOC-SC & FC Holder, Right on KF4A-HDC                   |
| FSOC Holder    | HS-SC/FC       | FSOC-SC & FC Holder, Right on K33A-HDC                   |
| Cable Holder   | 4824-900       | Cable Holder for 4.8x2.4mm cable, 900um jacket on holder |
| Cable Slitter  | SL-MLTC        | Slitting 8145, 5020, 4824, 5000 cable                    |
| Crimping       | CRTL-CR-PSPL   | Crimping tool for CR & PSPL type                         |
| Heating tube   | HDC-HT         | Heater for shrinking tube                                |

## 8. Documents

| Document Number           | Description         |
|---------------------------|---------------------|
| IG-HFSOC-SC-PSPL-4824-001 | Installation Manual |

## 9. Related Products

| Classification | Product Number            | Description                                            |
|----------------|---------------------------|--------------------------------------------------------|
| Drop Cable     | DRC-PE4824B-FR00-P09-A201 | 4.8x2.4mm flat, MDPE                                   |
| PSPL Terminal  | HODT-PSPL-0102-SA-SA      | Push-Pull Hardened SPL Terminal with 1x2 PLC Splitter  |
| PSPL Terminal  | HODT-PSPL-0104-SA-SA      | Push-Pull Hardened SPL Terminal with 1x4 PLC Splitter  |
| PSPL Terminal  | HODT-PSPL-0108-SA-SA      | Push-Pull Hardened SPL Terminal with 1x8 PLC Splitter  |
| PSPL Terminal  | HODT-PSPL-0116-SA-SA      | Push-Pull Hardened SPL Terminal with 1x16 PLC Splitter |
| PSPL Terminal  | HODT-PSPL-2TAP-SA-SA      | Push-Pull Hardened TAP Terminal with 1x2 PLC Splitter  |
| PSPL Terminal  | HODT-PSPL-4TAP-SA-SA      | Push-Pull Hardened TAP Terminal with 1x4 PLC Splitter  |
| PSPL Terminal  | HODT-PSPL-8TAP-SA-SA      | Push-Pull Hardened TAP Terminal with 1x8 PLC Splitter  |
| PSPL Terminal  | HODT-PSPL-16TAP-SA-SA     | Push-Pull Hardened TAP Terminal with 1x16 PLC Splitter |
| PSPL Terminal  | HODT-PSPL-0002-ST-SA      | Push-Pull Hardened STUB Terminal 2ports output         |
| PSPL Terminal  | HODT-PSPL-0004-ST-SA      | Push-Pull Hardened STUB Terminal 4ports output         |
| PSPL Terminal  | HODT-PSPL-0008-ST-SA      | Push-Pull Hardened STUB Terminal 8ports output         |
| PSPL Terminal  | HODT-PSPL-0012-ST-SA      | Push-Pull Hardened STUB Terminal 12ports output        |
| PSPL Terminal  | HODT-PSPL-0016-ST-SA      | Push-Pull Hardened STUB Terminal 16ports output        |