

## Technical Specification

### FSOC(Fusion Splice On Connector) SC 3.0(2.0)mm

| Connector type  | Fiber type | Boot      | Sleeve | Cable           |
|-----------------|------------|-----------|--------|-----------------|
| SC/UPC & SC/APC | SM & MM    | Soft Boot | 25mm   | 3.0(2.0)mm Dia. |

## 1. General

This technical specification describes the information of the components and the characteristics of UCL's Fusion Splice-On Connector, SC type with SM and MM fiber, 3.0mm or 2.0mm buffered jacket cable that is terminated on the UCL's All-In-One Fusion Splicer, KF4A and K33A.

## 2. Features and Benefits

- Fusion technology shows better optical performance and reliability versus mechanical splice connector
- Eliminates cable shorts and excess slack, just in length installation
- Easy and Fast installation with KF4A & K33A, All-In-One fusion splicer

## 3. Specifications

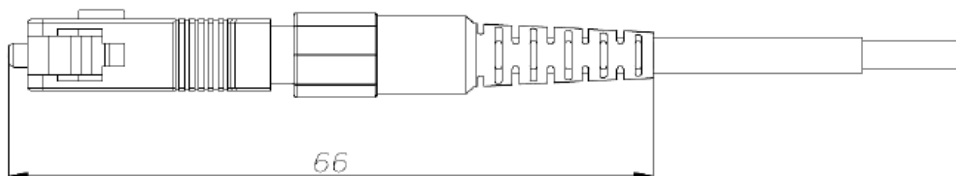
### 3.1 Optical Performance

|                                  |                |      |                        |
|----------------------------------|----------------|------|------------------------|
| Singlemode<br>(OS1 & OS2)        | Insertion Loss | Typ. | 0.15dB                 |
|                                  |                | Max  | 0.30dB                 |
|                                  | Return Loss    | min. | 55dB (UPC), 65dB (APC) |
| Multimode<br>(OM1,OM2,OM3 & OM4) | Insertion Loss | Typ. | 0.10dB                 |
|                                  |                | Max  | 0.20dB                 |
|                                  | Return Loss    | min. | 30dB                   |

### 3.2 Standards Compliance

|                  |                                          |
|------------------|------------------------------------------|
| Intermateability | IEC 61754-2, TIA/EIA-604-2               |
| Endface          | IEC 61300-3-35                           |
| Geometry         | GR-326-CORE, 4.4.5 Geometry Requirements |
| Reliability      | GR-1081-CORE, TIA-568-C.3                |
| Material         | RoHS, UL94V-0                            |

## 4. Dimension



## 5. Ordering Information

| Part Number                | Product Description                                                         | Length (mm) |
|----------------------------|-----------------------------------------------------------------------------|-------------|
| FSOC-D0-SC/APC-25-SB-30B   | G.652.D, SC type, APC polishing, 25mm sleeve, 3.0mm soft boot               | 66          |
| FSOC-D0/P-SC/APC-25-SB-30B | G.652.D, Pre-cleaved, SC type, APC polishing, 25mm sleeve, 3.0mm soft boot  | 66          |
| FSOC-A2-SC/APC-25-SB-30B   | G.657.A2, SC type, APC polishing, 25mm sleeve, 3.0mm soft boot              | 66          |
| FSOC-A2/P-SC/APC-25-SB-30B | G.657.A2, Pre-cleaved, SC type, APC polishing, 25mm sleeve, 3.0mm soft boot | 66          |
| FSOC-M4-SC/UPC-25-SB-30B   | OM4, Pre-cleaved, SC type, UPC polishing, 25mm sleeve, 3.0mm soft boot      | 66          |
| FSOC-M4/P-SC/UPC-25-SB-30B | OM4, Pre-cleaved, SC type, UPC polishing, 25mm sleeve, 3.0mm soft boot      | 66          |

## 6. Splicing & Heating Condition on KF4A and KF4

| Mode          | Condition                           |
|---------------|-------------------------------------|
| Splicing Mode | 12. G657A2B2, 1. SM ITU-T G652      |
| Heating Mode  | Temp. : 170~180Deg. Time : 40~50sec |

## 7. Related Products

| Classification | Product Number | Product Description                              |
|----------------|----------------|--------------------------------------------------|
| Fusion Splicer | KF4, KF4A      | UCL Fusion Splicer, Cladding Splicer             |
| Fusion Splicer | K33, K33A      | UCL Fusion Splicer, Core Splicer                 |
| FSOC Holder    | HF4-SC/FC      | FSOC-SC & FC Holder, Right on KF4, KF4A          |
| FSOC Holder    | HS-SC/FC       | FSOC-SC & FC Holder, Right on K33, K33A          |
| Cable Holder   | HS-2.5F        | Cable Holder for 3.0(2.0)mm stripped cable, Left |

## 8. Documents

| Document Number         | Description                           |
|-------------------------|---------------------------------------|
| IG-FSOC-SC30SB-B-001    | Installation Manual                   |
| RT-TI-FSOC-SC30SB-B-001 | Reliability Test Report(GR-1081-CORE) |