

Technical Specifications

FSOC(Fusion Splice On Connector) SC Hard Boot for 2.0x3.0(5.0x2.0)mm drop cable

Connector type	Boot type	Cable
SC/UPC & SC/APC	Hard Boot	2.0x3.0mm

1. General

This technical specification describes the information of the components and the characteristics of UCL Swift Fusion Splice-On Connector, SC type and hard boot to terminate with the 2.0x3.0(5.0x2.0)mm drop cable

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
- Fast FTTH drop cable installation with KF4A All-In-One fusion splicer
- International patent disclosure number : WO 2012/005407 A1

3. Specifications

3.1 Optical Performance

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

3.2 Intermateability Compliance

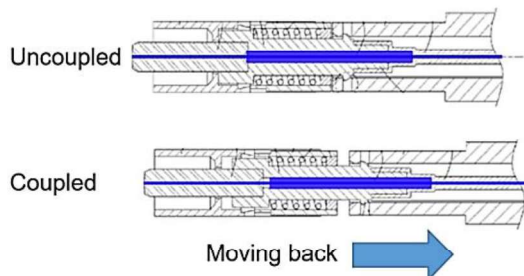
Standard	IEC 61754-4, TIA/EIA-604-3
----------	----------------------------

3.3 Reliability Compliance

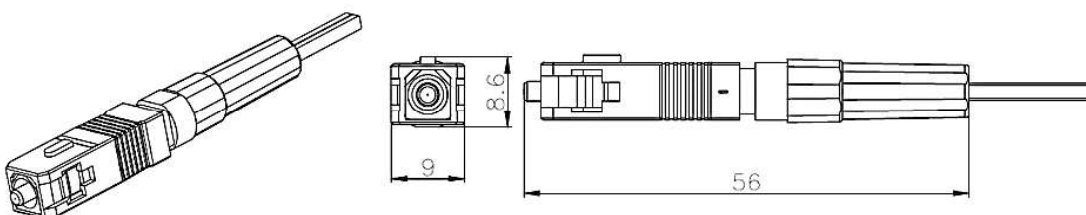
Environmental Requirements	Thermal Age Test	GR-326-CORE, Section 4.4.2.1
	Thermal Cycle Test	GR-326-CORE, Section 4.4.2.2
	Humidity Aging Test	GR-326-CORE, Section 4.4.2.3
	Humidity / Condensation Cycling Test	GR-326-CORE, Section 4.4.2.4
	Dry-Out Step	GR-326-CORE, Section 4.4.2.5
	Post-Condensation Thermal Cycle Test	GR-326-CORE, Section 4.4.2.6
Mechanical Requirements	Vibration Test	GR-326-CORE, Section 4.4.3.1
	Impact Test	GR-326-CORE, Section 4.4.3.7
	Durability Test	GR-326-CORE, Section 4.4.3.8

3.4 Sliding Back Structure (Patent : WO 2012/005407 A1)

When FSOC coupled with adapter and ONT transceiver, there should be some space not to stress or bend the fiber. UCL's FSOC has a design to slide rear part back when coupled it with other optical components



4. Dimension



5. Ordering Information

Part Number	Product Description	Length (mm)
FSOC-D0-SC/APC-32-HB-2030A	SC/APC type, Hard Boot, 2x3mm Drop cable	56
FSOC-D0-SC/UPC-32-HB-2030A	SC/UPC type, Hard Boot, 2x3mm Drop cable	56

6. Splicing & Heating Condition on KF4A and KF4

Mode	Condition
Splicing Mode	12. G657A2B2 / 1. SM ITU-T G652
Heating Mode	Temp. : 160Deg. Time : 40~50sec

7. Related Products

Classification	Product Number	Product Description
Fusion Splicer	KF4, KF4A	UCL Fusion Splicer, Cladding Splicer
FSOC Holder	HF4-SC/FC	FSOC-SC & FC Holder, Right on KF4 and KF4A
Cable Holder	HS-IN	Cable Holder for 2x3mm drop cable, Left on KF4 and KF4A
Cable Stripper	ST-2030	Stripping 2x3m cable jacket

8. Documents

Document Number	Description
IG-FSOC-SC-HB-2030A-001	Installation Manual