

Specification for

QSC60K1-APC/UPC

Field Installable Connector

(FIC Type 60-1-0.9 Add 0.9 Cable Holder)



Draft	Audit	Approve
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Revision List

Revise Date	Author	Document Rev.	Modification Record
2019-05-10	Xu Jinhai	V1.0	First writing
2021-2-12	Liu Hongyu	V2.0	Add more detailed description & modify format
2022-08-13	Liu Hongyu	V2.0A	Update LOGO

Chongqing Lixun Communication Device Co., Ltd. http://www.lxftth.com

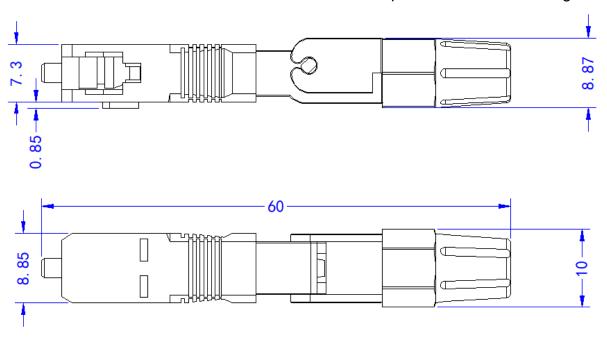


1. Description

This specification defines the characteristics of SC/APC &SC/UPC Field Installable Connector (FIC Type 60) with G652D fiber in a pre-polished SC ferrule. This FIC is produced by Chongqing Lixun Communication Device Co., Ltd. which is designed to be used with butterfly drop cable of 3.0mmx2.0mm dimension and 3.0mm patch cable, with small 0.9 holder part, can be used on 0.9 buffered cable.

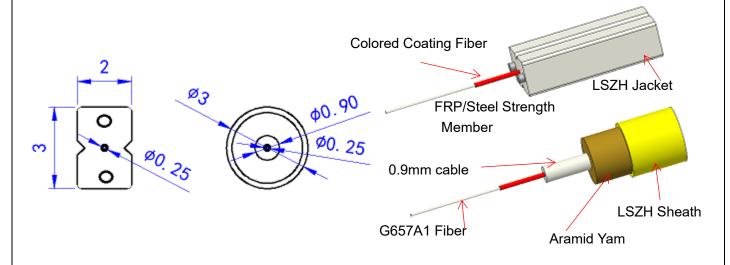
2. Outline Drawing of FIC

The outline of the FIC is as follows: (the 0.9 cable Holder please check the drawing)



3. Outline Drawing of Cables

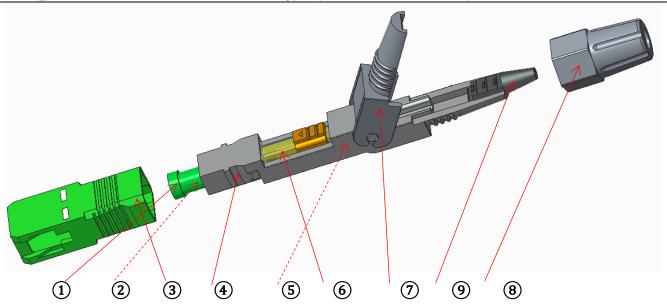
The outline of the fitted butterfly flat drop cable and 3.0mm simplex cable are as follows: This model add 0.9 buffered cable holder, also suitable for 0.9 cable.



4. Construction:

The FIC comprises several parts as shown in the following drawing



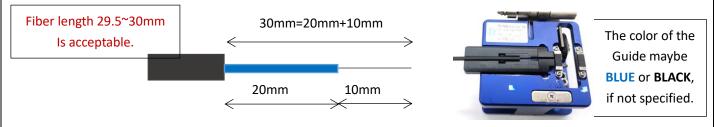


No.	Part name	Description
1	Dust cap	PE, APC: Green
2	SC Ferrule	Zirconia ceramics, embedding with G657A1/G657A2/G62D fiber or ordered
3	SC Housing	PBT, APC: Green
4	Long Shell	PBT/PC, Black
5	Spring	SUS304
6	V set	PEI, Groove/Cover/Lock
7	End Flip	PBT/PC, Black Color
8	Screw cap	PBT/PC, Black
9	0.9 Holder	Rubber, Black

It is acceptable for customer to label their company logo or name, etc., by laser marking on the surface of FIC. It is also negotiable to change the color of FIC per customer's request. The standard color of main body of FIC is black.

5. Fiber length

The length guide is a specially designed tool to help user to strip the fiber coating to the preset length. It has a ruler on itself to help user to strip to preset length effectively.



0.250mm Primary Coating: 20mm, and 0.125mm Bare Fiber: 10 mm

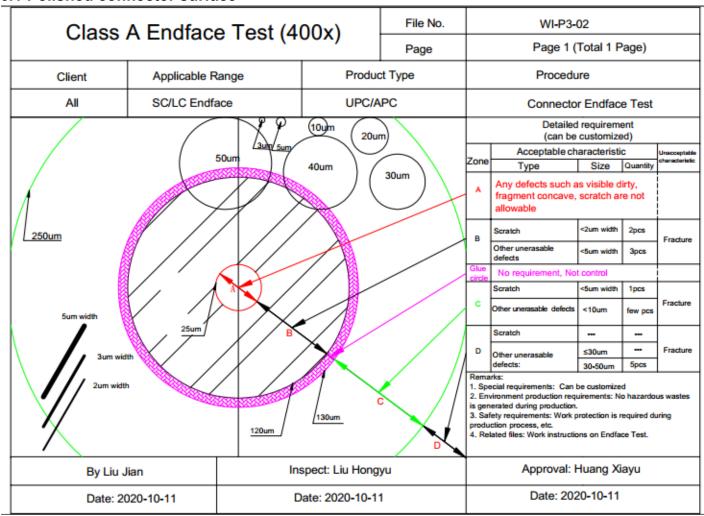
6. Overall Performance

The FIC fulfills the following spec. and insertion loss is tested 100%. The return loss is produced to be as low as -55dB, so the FIC could bring lowest disturbance to the FTTx system.



No.	Item Name	Description	
1	Insertion Loss (dB)	Max.≤0.5dB, Typical≤0.3dB	
2	Return Loss (dB)	Max.APC≤-50dB, Typical≤-55dB Max UPC≤-40dB, Typical≤-45dB	
3	Ferrule End Face	A Zone no scratches at 400X	
4	3D Interferometry	Complies to IEC 2009	
5	Average Assembling Time	≤ 3 min	
6	First-Time Done Yield Rate	≥ 95%	
7	Re-Operation Times	Max. 5 times	
8	Repeatability (±0.2dB)	≥ 90%	
9	Appearance	No Defects	
10	Tensile Strength	>50N for drop cable, 10N for 0.9 cable	

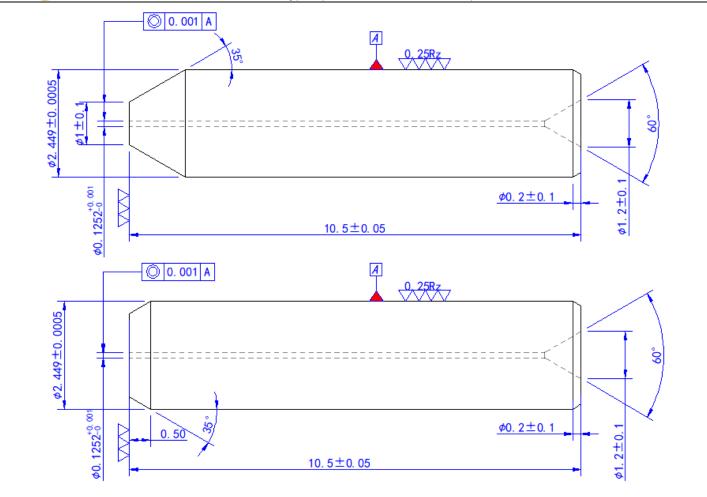
6.1 Polished connector surface



7. Material - Zirconia UPC/APC Ferrule

The conical type, Zirconia UPC/APC ferrule used in FIC shall meet the following dimensions or with better performance than the drawing here.





8. Material – FIC Housing & Dust Cap & other materials

The FIC shall adopt engineered resin that meet the demand of RoHS and could withstand the temperature changes of the spec. values.

9. Material – Matching Gel

The matching gel in FIC is well enough for 5-time re-operation in the field. The gel should also meet the RoHS requirement and providing superior optical performance

10. Working Conditions

The FIC could be operated normally during the following environmental conditions:

Operating Temperature	-40°C~+75°C
Storage Temperature	-40°C~+85°C

11. Packing

The FIC shall be packed according to the followings:

1) 10pcs in a small blister box, 10 blisters in a inner box.



QSC60K1-0.9 SC Type optic fiber fast connector specification



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Blister Size (cm)	14.7x7x1.5
Q'ty (pcs/blister)	10
N.W. (g/pcs)	3.15
Inner box size (cm)	15x12x7.6
Inner box Q'ty (pcs)	100

2) 1,000pcs in a big carton (10 inner boxes per carton)



Size(cm)	40x16.3x24.8
Q'ty(inner boxes/carton)	10
Q'ty (pcs/carton)	1000
N.W. (kg/carton)	3.97
G.W. (kg/carton)	4.87

The package contains: products, process instruction, and agreed proportion of guide tool.

12. Warranty

If defective products are found and could be proved to be the responsibility of QingYing, then all the defectives will be replaced free of charge, within 1 month.

13. Product drawing:



