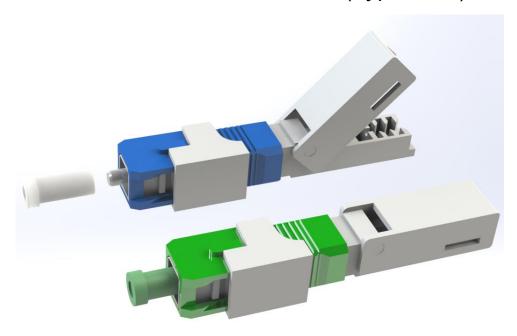


Specification for

QSC53KJ2-APC QSC53KJ2-UPC

Field Installable Connector (Type 53-2)



Prepared by	Reviewed by	Approved by
Liu Jian	Liu Hongyu	Huang Xiaoyu

Revision List

Revise Date	Author	Document Rev.	Modification Record
2020-05-10	Zeng Xiaoyuan	V1. 0	First writing
2021-3-4	Liu Hongyu	V2. 0	Add more detailed description & modify format
2022-08-12	Liu Hongyu	V2.0A	Update LOGO

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

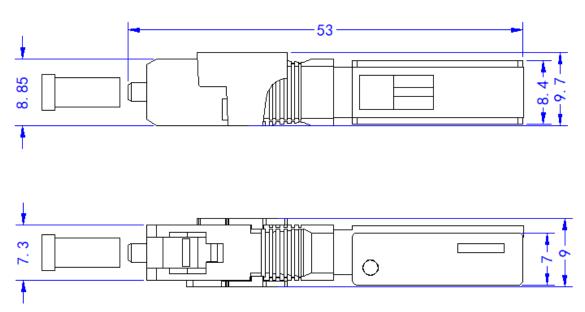


1. Description

This specification defines the characteristics of SC/UPC, SC/APC Field Installable Connector (FIC Type SC53-2) with G652D/G657A1/G657A2 fiber in a pre-polished SC ferrule (UPC or APC). This FIC is produced by Chongqing Lixun Communication Device Co., Ltd. which is designed to be used with drop cable of 3.0mmx2.0mm dimension.

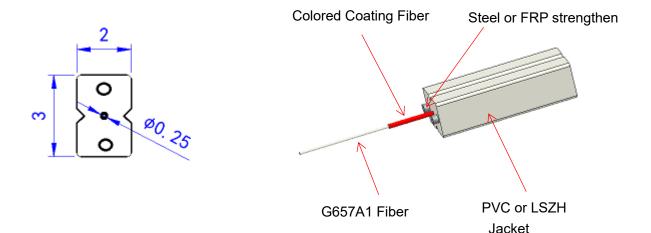
2. Outline Drawing of FIC

The outline of the FIC is as follows:



3. Outline Drawing of Cables

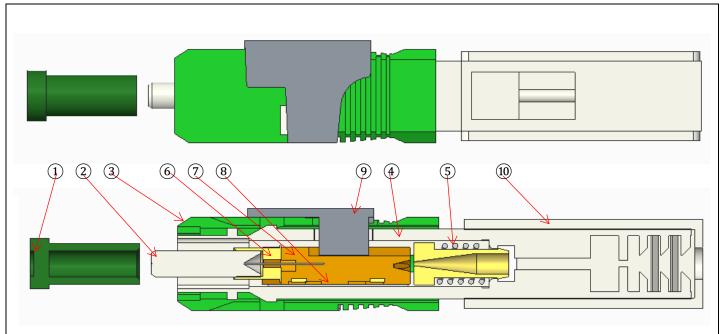
The outline of the fitted butterfly flat drop cable and 3.0mm simplex cable are as follows:



4. Construction:

The FIC comprises several parts as shown in the following drawing



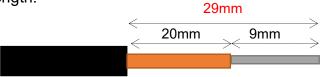


Bill of materials		
Part No.	Part name	Description
1	Dust cap	PE, UPC:Transparent, APC:Green
2	Pre-polished ferrule	Zirconia ceramic, embedding with G657A1/G657A2/G62D/MM fiber as ordered
3	SC Housing	PBT/PC, UPC:Blue, APC: Green
4	SC Long shell	PBT/PC, White
(5)	Spring	SUS304
678	V-groove set	PEI, with V-groove, Cover, U Spring(SUS304)
9	Key	PBT/PC, Grey
10	Flip cover	PBT/PC, White

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 white.

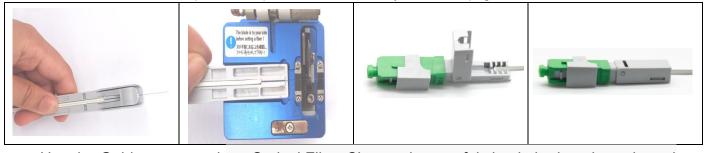
5. Fiber length

The cable clamp is the same clamp for Optical Fiber Splicing Machine, and use the following ruler to make correct length:



0.250mm Primary Coating: 20mm, 0.125mm Bare Fiber: 9 mm, total 29mm ± 0.3mm

<How to Use>——Detailed procession please check assembly instruction page



Use the Guide part on the Optical Fiber Cleaver, be careful check the length mark, and make the fiber ready for assembling.

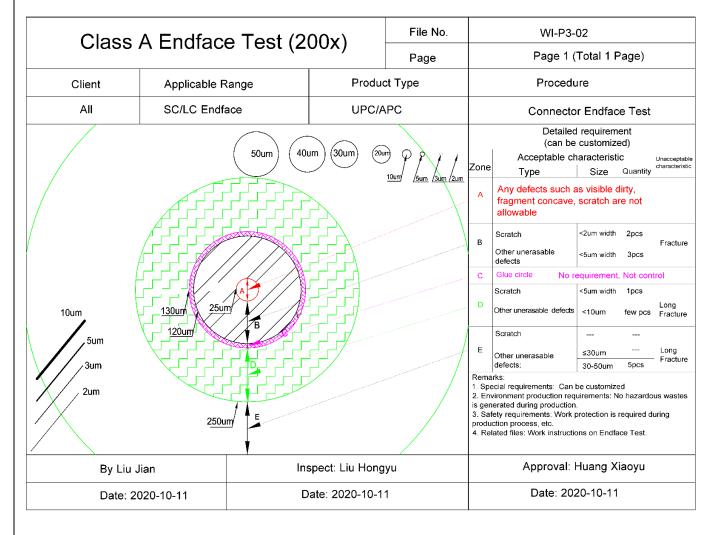


6. Overall Performance

The FIC fulfills the following spec. and Insertion Loss is tested 100%. The return loss is produced to be as low as APC:-55dB, UPC:45dB, 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	>30N

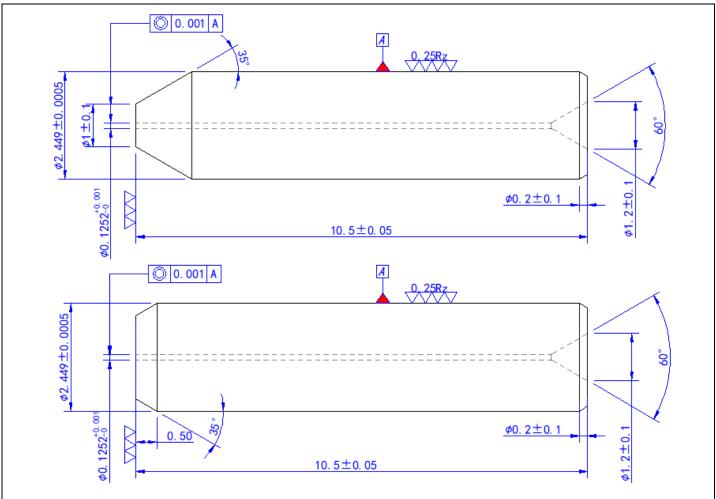
6.1 Polished connector surface



7. Material - Zirconia UPC/APC Ferrule

The conical type, Zirconia UPC/APC ferrule used in FIC shall meet the dimension and performance of GR-326. The polishing standard is as following.





8. Material - FIC Housing & Dust Cap

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:

Item No.	Item Name	Spec. Value
1	Operating Temperature	-20°C~+75°C
2	Storage Temperature	-40°C~+85°C

11. Packing

The FIC shall be packed according to the followings:

QSC53KJ2 UPC/APC Field Installable Connector Specification

1) 10pcs in a small blister box





Blister Size (cm)	14.7x7.0x1.45
Q'ty (pcs/blister)	10
Inner carton size(cm)	15.5*12.2*7.7
Q'ty (blister/inner carton)	10
Q'ty (pcs/inner carton)	50
N.W. (g/each FIC)	3.2

2) 1,000pcs in a big carton





Outon Conton Sing(on)	40x16.3x
Outer Carton Size(cm)	24.8
Q'ty (inner box/outer carton)	10
Q'ty (pcs/ outer carton)	1000
N.W. (kg/outer carton)	3.2
G.W. (kg/outer carton)	6.3

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 months.

13. Product Drawing



