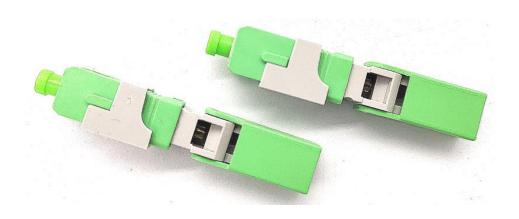
Specification for QSC50KJ2-APC QSC50KJ2-UPC

SC UPC/APC Field Installable Connector (FIC Type 50-2)



Draft	Audit	Approve
Liu Jian	Lu Hongyu	Huang Xiaoyu

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

QSC50KJ2-APC QSC50KJ2-UPC

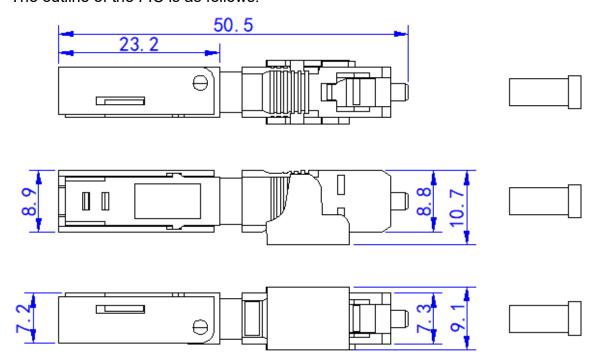
Field Installable Connector Specification (Type 50-2)

1. Description

This specification defines the characteristics of SC/APC Field Installable Connector (FIC Type 50-2) with G652D fiber in a pre-polished SC/APC ferrule. 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 and 3.0mm patch cable.

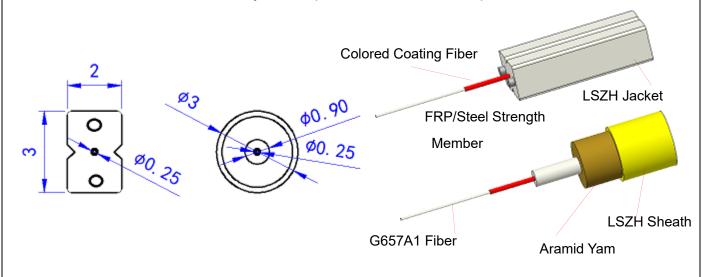
2. Outline Drawing of FIC

The outline of the FIC is as follows:



3. Outline Drawing of Cables

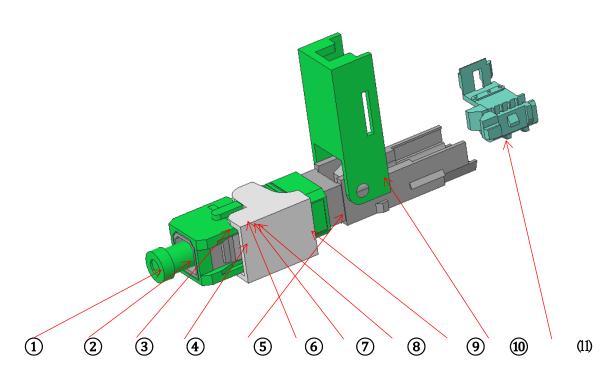
The outline of the fitted butterfly flat drop cable and 3.0mm simplex cable are as follows:



4. Construction:



The FIC comprises several parts as shown in the following drawing

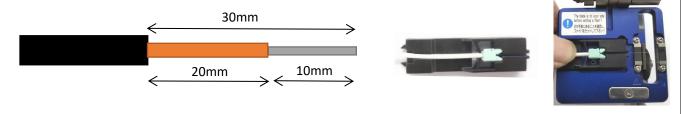


Bill of materials		
Part No.	Part name	Description
1	Dust cap	PE, UPC: Transparent; APC: Green
2	Pre-polished ferrule	Zirconia ceramics, embedding with G657A1/G657A2/G62D/MM fiber as ordered
3	SC Housing	PBT, UPC:Blue, APC: Green
4	Main body	PBT/PC, Black or Water Blue
(5)	Spring	SUS304
678	V-groove set	PEI, with V-groove, Cover, SUS304: Elastic sheet
9	Main body	PBT/PC, Grey color
10	Flip cover	PBT/PC, APC:Green, UPC: Blue
(11)	Cable lock	PA/PE, Water Blue

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 grey.

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 shape on itself to help user to strip to preset length effectively.



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

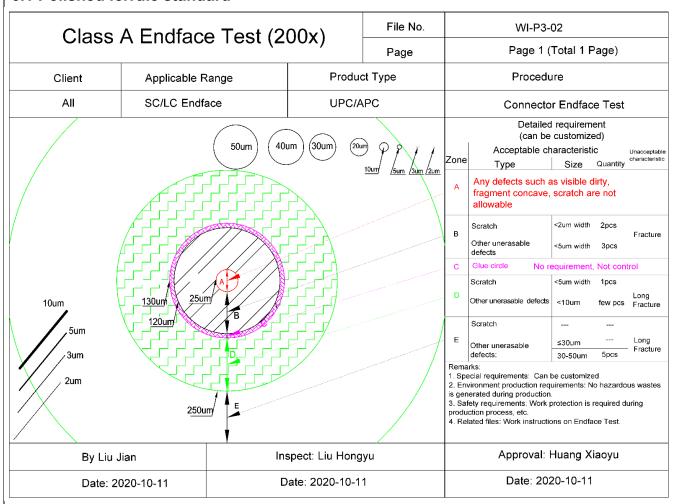


6. Overall Performance

The FIC fulfills the following spec. and Insertion Loss is tested 100%. The return loss is produced to be as low as UPC-40~-45dB and APC-50~55dB, 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

6.1 Polished ferrule standard

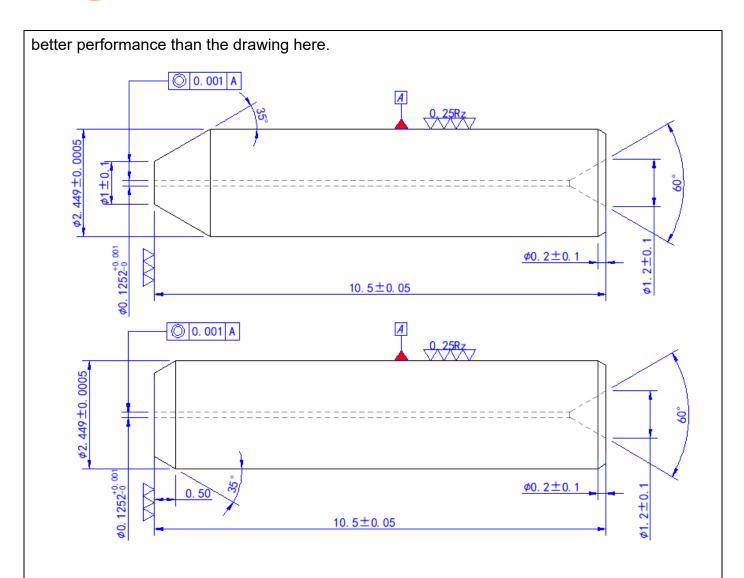


7. Material - Zirconia APC Ferrule

The conical type, Zirconia APC ferrule used in FIC shall meet the following dimensions or with

QSC50KJ2-APC QSC50KJ2-UPC

Field Installable Connector Specification (Type 50-2)



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 Name	Spec. Value
Operating Temperature	-20°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



Size (cm)	18x11.8x1.5
Q'ty (pcs/box)	10
N.W. (g/pcs)	3.23
N.W. (g/box)	16.08
G.W. (g/box)	50.8

2) 1,000pcs in a big carton



Size(cm)	45x25x24
Q'ty (10 blister box)	100
Q'ty (pcs/carton)	1000
N.W. (kg/carton)	6.00
G.W. (kg/carton)	6.50

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:



