

# Specification for

# QSC55K3-UPC QSC55K3-APC

Field Installable Connector (FIC Type 55-3)



Fiber Tension 3N 1mins Passed

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
2020-08-12	Liu Jian	V2.0	Add more detailed description & modify format
2022-08-13	Liu Hongyu	V2.0B	Update LOGO

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

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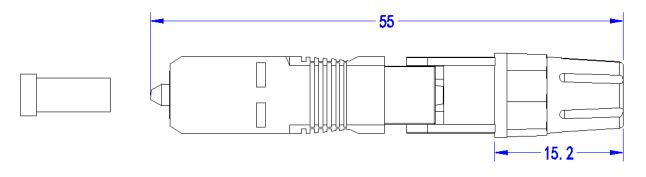


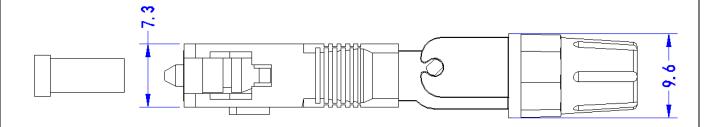
#### 1. Description

This specification defines the characteristics of SC/APC, SC/UPC Field Installable Connector (FIC Type 50-3) with G652D fiber in a pre-polished UPC/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

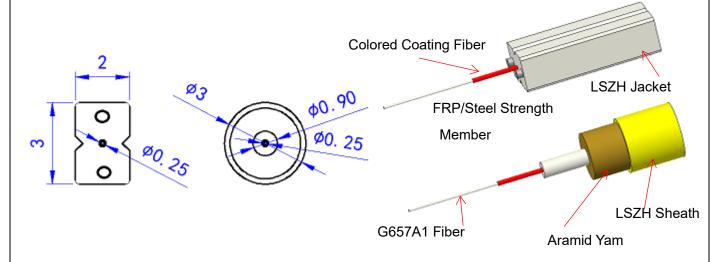
The outline of the FIC is as follows:





#### 3. Outline Drawing of Cables

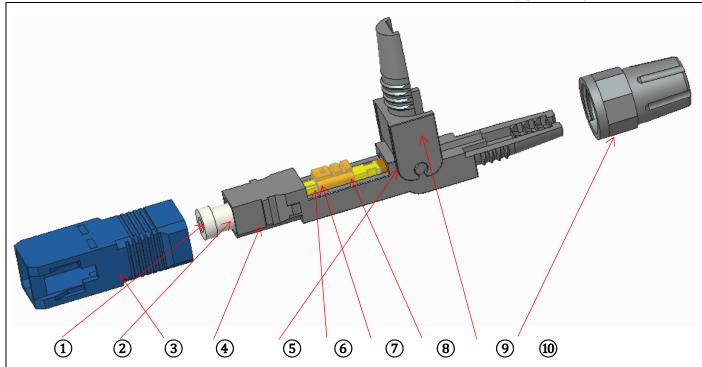
The outline of the fitted butterfly flat drop cable and 3.0mm simplex cable are as follows:



#### 4. Construction:

The FIC comprises several parts as shown in the following drawing



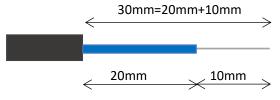


Part No.	Part Name	Description
1	Dust Cap	PE, UPC: Transparent, APC: Green
2	Ferrule	Zirconia ceramic, embedding with
		G657A1/G657A2/G62D/MM fiber or as ordered
3	SC Housing	PBT/PC, UPC: Blue, APC: Green
4	Long Shell	PBT/PC, Black
5	Spring	SUS304/201
678	V Groove-Cover-Lock	PEI, V Groove/Cover/Lock
9	FIC End Flip	PBT/PC, Black Color
10	Screw End	PBT/PC, 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 tool is a specially designed tool to help user to strip the fiber coating to the preset length. It has a clamp on itself to help user to strip to preset length effectively.





0.250mm Primary Coating: 20mm, 0.125mm Bare Fiber: 10 mm, total: 30mm ± 0.3mm

#### 6. Overall Performance

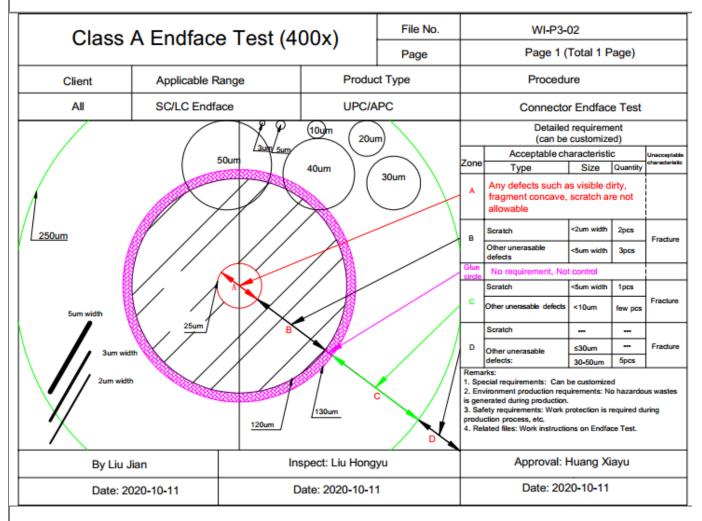
The FIC fulfills the following specification and insertion loss is tested 100%. The return loss is



produced to be almost low as patch cord, so the FIC could bring lowest disturbance to the FTTx system.

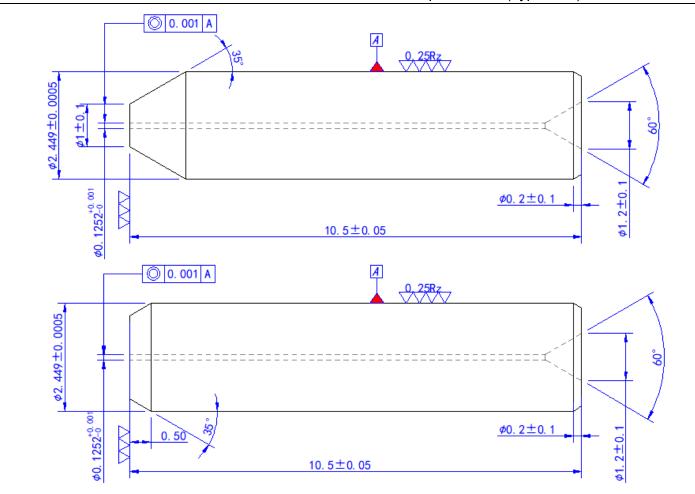
No.	Item Name	Description
1	Insertion Loss (dB)	≤0.3dB, Max.≤0.5dB
2	Return Loss (dB)	APC≤-55~-60dB UPC≤-45~-50dB
3	Ferrule End Face	A Zone no scratches at 400X
4	3D Interferometry	Complies to IEC 2009
5	Average Assembling Time	≤ 3 min
6	First-Time Done Yield Rate	≥ 95%
7	Re-Operation Times	Max. 5 times
8	Repeatability (±0.2dB)	≥ 90%
9	Appearance	No Defects
10	Tensile Strength	>50N
11	Fiber Tension Test	3N 1mins passed

#### 6.1 Polished connector surface



#### 7. Material - Zirconia UPC/APC Ferrule

The Zirconia UPC/APC ferrule used in FIC shall meet the dimension and performance of GR-326.



#### 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 specification 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

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, 10 blisters in an inner box.







Blister Size (cm)	14.7x7x1.5
Q'ty (pcs/blister)	10
N.W. (g/pcs)	3.2
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)	3.2
G.W. (kg/carton)	4.87

# 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:



