

Specification for

QSC50KJ4-APC QSC50KJ4-UPC

For 3.0x2.0 drop cable

Field Installable Connector (Type 50-4)



Prepared by	Reviewed by	Approved by
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Revision List

Revise Date	Author	Document Rev.	Modification Record
2019-05-10	Liu Jian	V1.0	First writing
2020-12-21	Liu Jian	V2.0	Add more detailed description & modify format
2021-07-09	Liu Hongyu	V2.0A	Add 2.0x1.6mm drop cable teeth extend

Dongguang Qingying Industry Co., Ltd.

http://www.qyftth.com

www.qyfiber.en.alibaba.com

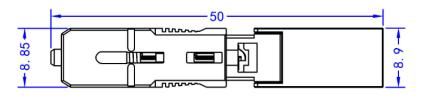


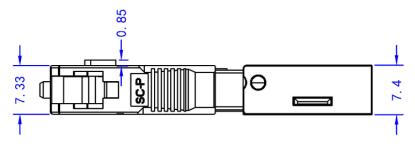
1. Description

This specification defines the characteristics of SC UPC/APC Field Installable Connector (FIC Type 50-4) with G652D/G657A1/G657A2 fiber in a pre-polished SC UPC/APC ferrule. This FIC is produced by Dongguang QingYing Industry Co., Ltd. which is designed to be used with butterfly drop cable of 3.0mmx2.0mm dimension.

2. Outline Drawing of FIC

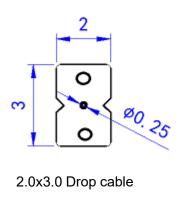
The outline of the FIC is as follows:

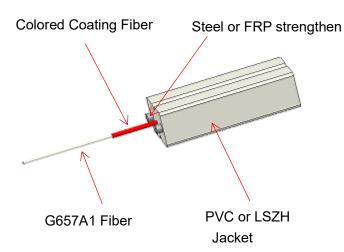




3. Outline Drawing of Cables

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

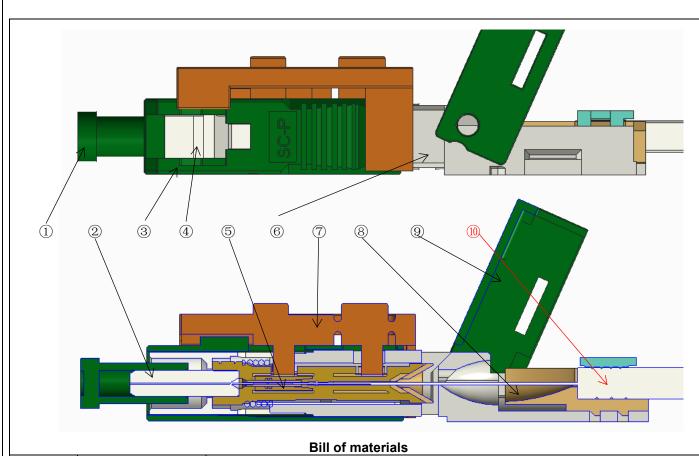




4. Construction:

The FIC comprises several parts as shown in the following drawing



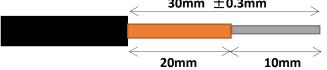


Part No.	Part name	Description
1	Dust cap	PE, UPC: Transparent, APC: Green
2	Pre-polished ferrule	Zirconia ceramic, embedding with G657A1/G657A2/G62D/MM fiber as ordered
3	SC Housing	PBT/PC, UPC: Blue, APC: Green
4	SC white shell	PBT/PC
5	V-groove set	PEI, with V-groove, Cover, U Spring (Beryllium copper), Spring (SUS304)
6	Main shell	PBT/PC, White
7	Key	PBT/PC, Brown
8	Cable lock	PBT/PC, Yellow
9	Flap	PBT/PC, UPC: Blue, APC: Green

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 Green/Blue.

5. Fiber length

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



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

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









Put fiber in cable locker, the guide's front side

Cleave fiber

usii cable lockel III

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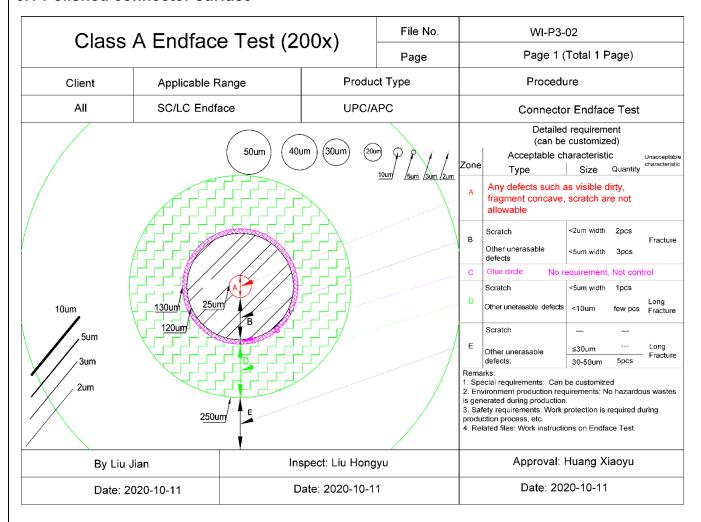


6. Overall Performance

The FIC fulfills the following spec. and Insertion Loss is tested 100%. The return loss is produced to be almost as low as patch cord, 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	5 times	
8	Repeatability (±0.2dB)	≥ 90%	
9	Appearance	No Defects	
10	Tensile Strength	>25N	

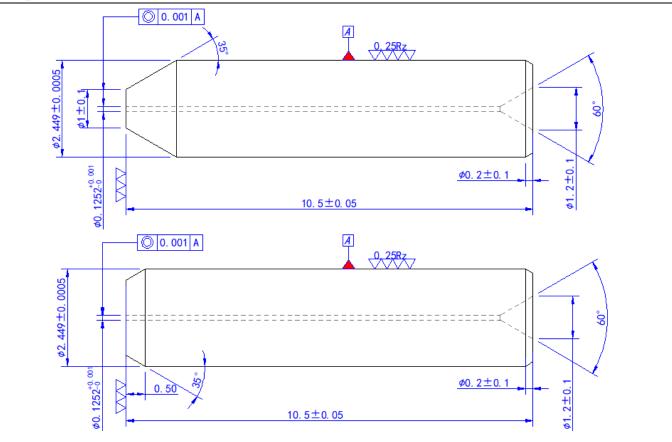
6.1 Polished connector surface



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.





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) 5pcs in a small blister box





Blister Size (cm)	12x9.5x1.5
Q'ty (pcs/blister)	5
Inner carton size(cm)	15.5*12.2*10.2
Q'ty (blister/inner carton)	10
Q'ty (pcs/inner carton)	50
N.W. (g/each FIC)	4.31



2) 1,000pcs in a big carton

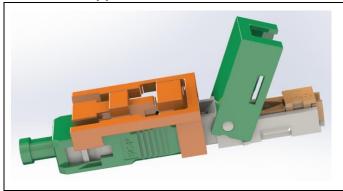


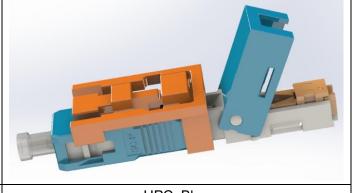
Outer Carton Size(cm)	53.5*26*32.2
Q'ty (inner box/outer carton)	20
Q'ty (pcs/ outer carton)	1000
N.W. (kg/outer carton)	4.31
G.W. (kg/outer carton)	6.3

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 month.

13. Product appearance



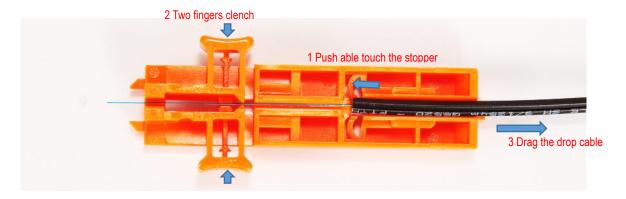


APC: Green

UPC: Blue

14. Updated information:

The Length guide updated to: Back side plastic knife to strip fiber coating, so the glass surface of fiber will never got hurt. It improved the FIC's reliability very much.



15. Product drawing:



