

Fiber Optic Connector

DYSFO supplies various kinds of low insertion loss high return loss single mode and multimode fiber optic connectors for FC, SC, ST, LC, MTRJ, MPO and other connectors. They are widely used in fiber optic patchcords, terminal boxes, and other fiber optic communications.

Features

- Low insertion loss and high return loss
- Excellent interchangeability and repeatability
- High Precision Alignment
- SC and LC standard connectors are engraved or laser-printed with the product brand/trademark, ensuring durability and resistance to fading over time in natural environments.

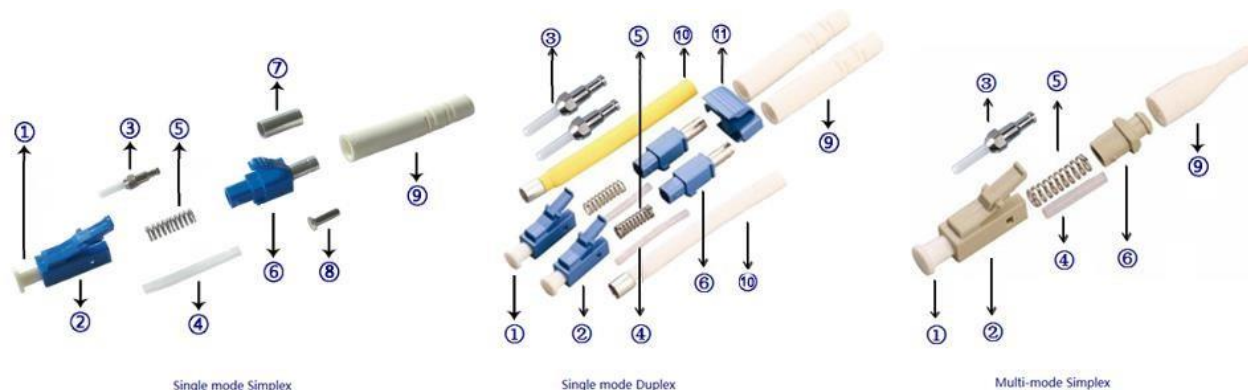
Applications

- Telecom network
- Data transmission network
- Fiber Optic Patch Cord & Pigtail


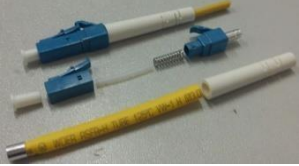


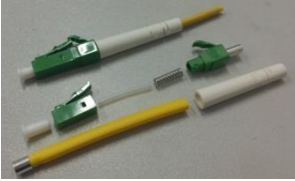



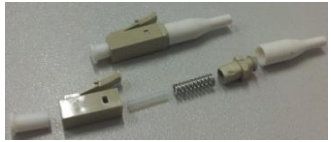
Specifications

Parameters	Specifications		
	MM	SM	
		UPC	APC-8°
Fiber Type			
Insertion Loss (dB)	≤ 0.3	≤ 0.3	≤ 0.3
Return Loss (dB)	≥ 35	≥ 55	≥ 60
Connector Type	FC/ST/SC/LC		
Attenuation Stability (dB)	≤ 0.1 after 500 mating cycles		
Temperature Range (°C)	-40 ~ +75		
Humidity	≤ 95% RH		
Mechanical, environmental, and connectivity requirements according to ITU-T L.36/2008.	Vibration resistance (IEC 61300-2-1): complies with ITU-T L.36/2008 (section 9.2.1); Strength of the coupling mechanism (IEC 61300-2-6): complies with ITU-T L.36/2008 (section 9.2.2); Fiber/cable retention (IEC 61300-2-4): complies with ITU-T L.36/2008 (section 9.2.3.1); Change of temperature resistance (IEC 61300-2-22): complies with ITU-T L.36/2008 (section 9.2.6.4).		

LC Connectors



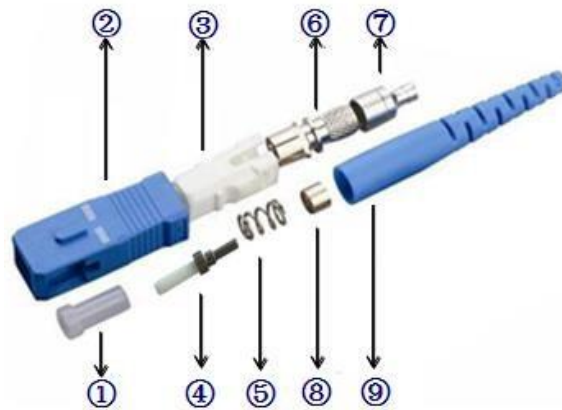
Material Parts		LC 3.0 Simplex	LC 2.0 Duplex	LC 0.9 Simplex
1	Dust Cap	PP	PP	PP
2	Housing	PEI	PEI	PEI
3	1.25mm Ferrule with flange	Ceramic	Ceramic	Ceramic
4	Transparent Tube	PE	PE	PE
5	Spring	SUS 304	SUS 304	SUS 304
6	Simplex Stopper ¹	PEI+Al5053	PEI+Al5053	PEI+Al5053
7	Crimp Ring ²	Al5053	/	/
8	Rivet ³	H62	/	/
9	Boot ⁴	TPV (3.0mm)	TPV (2.0mm)	TPV (0.9 mm)
10	Heat Shrink Tube with Crimp Ring ⁵	/	PEI+Al5053	/
11	Duplex Connector Clip ⁶	/	/	/

UPC			
APC			
MM			

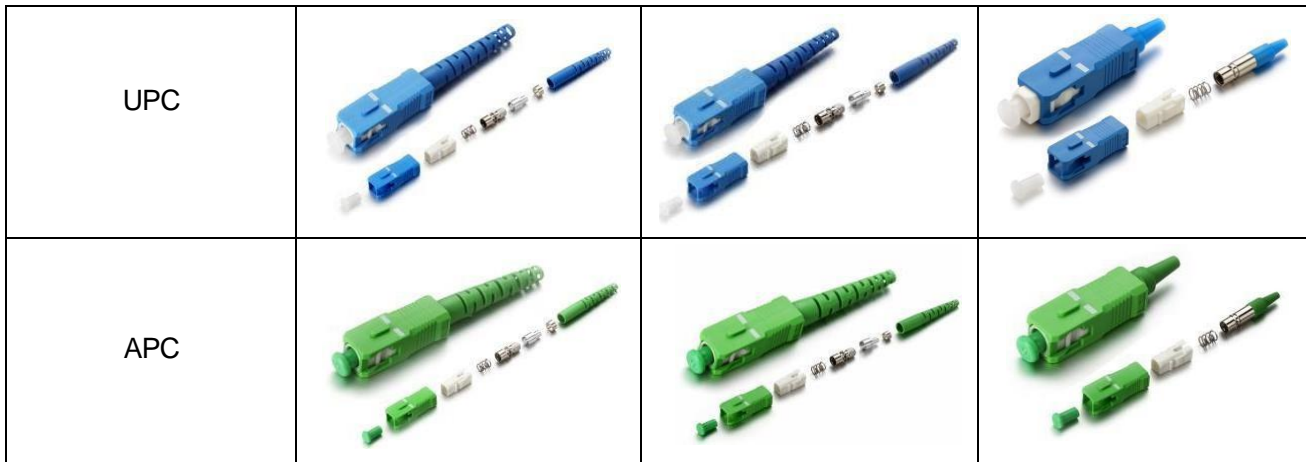
Notes:

1. The stoppers are different for simplex and duplex. And there is no stopper for 0.9mm duplex connector.
2. There are no crimp rings for duplex and multi-mode type LC connectors.
3. There are no rivets for duplex and multi-mode type LC connectors.
4. Boots varies from 3.0mm, 2.0mm and 0.9mm.
5. The heat shrink tube is only for 2.0mm LC connectors.
6. The duplex connector clip is only for duplex type LC connectors.

SC Connectors



Material Parts		SC 3.0	SC 2.0	SC 0.9
1	Dust Cap	LDPE	LDPE	LDPE
2	Housing	PBT	PBT	PBT
3	Plug Frame	PBT	PBT	PBT
4	2.5mm Ferrule with flange	Ceramic	Ceramic	Ceramic
5	Spring	SUS 304	SUS 304	SUS 304
6	Simplex Stopper ¹	CU	CU	CU
7	Big Crimp Ring ²	Al6061	Al6061	Al6061
8	Small Crimp Ring ³	H65	H65	H65
9	Boot ⁴	TPV (3.0mm)	TPV (2.0mm)	TPV (0.9 mm)



Notes:

1. The stoppers are same for 3.0mm and 2.0mm SC connectors, are different for 0.9mm.
2. The big crimp rings are different for 3.0mm and 2.0mm.
3. The small crimp rings are different for 3.0mm and 2.0mm, and there is no small crimp ring for 0.9mm.
4. Boots varies from 3.0mm, 2.0mm and 0.9mm.

FC Connectors



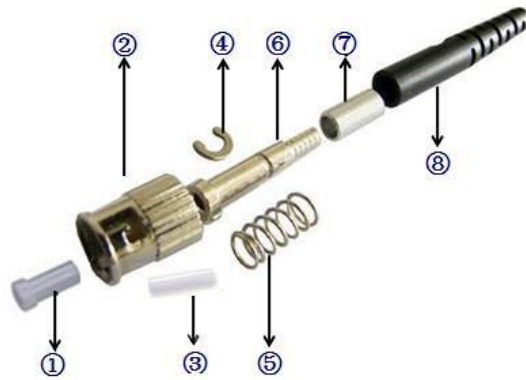
Material Parts		FC 3.0	FC 2.0	FC 0.9
1	Dust Cap	LDPE	LDPE	LDPE
2	Plug Frame	H59	H59	H59
3	Nut	H59	H59	H59
4	2.5mm Ferrule with flange	Ceramic	Ceramic	Ceramic
5	Spring	SUS 304	SUS 304	SUS 304
6	Simplex Stopper ¹	H59	H59	H59
7	Big Crimp Ring ²	Al6061	Al6061	Al6061
8	Small Crimp Ring ³	H65	H65	H65
9	Boot ⁴	TPV (3.0mm)	TPV (2.0mm)	TPV (0.9 mm)






Notes:

1. The stoppers are same for 3.0mm and 2.0mm FC connectors, are different for 0.9mm; it's also different for APC and UPC.
2. The big crimp rings are different for 3.0mm and 2.0mm.
3. The small crimp rings are different for 3.0mm and 2.0mm, and there is no small crimp ring for 0.9mm.
4. Boots varies from 3.0mm, 2.0mm and 0.9mm.

ST Connectors



Material		ST 3.0	ST 2.0	ST 0.9
Parts				
1	Dust Cap	LDPE	LDPE	LDPE
2	Stopper ¹	H59	H59	H59
3	2.5mm Ferrule without flange	Ceramic	Ceramic	Ceramic
4	C type Ring	SUS 304	SUS 304	SUS 304
5	Spring	SUS 304	SUS 304	SUS 304
6	Coupling Nut	H59	H59	H59
7	Crimp Ring ²	Al5053 (3.0mm)	Al5053 (2.0mm)	/
8	Boot ³	TPV (3.0mm)	TPV (2.0mm)	TPV (0.9 mm)
9	Rivet	H65 (3.0mm)	/	/
UPC				

Notes:

1. The stopper we provided is *open bayonet lock type*.
2. The crimp rings are different for 3.0mm and 2.0mm ST connectors, and for 0.9mm there is no crimp ring.
3. Boots varies from 3.0mm, 2.0mm and 0.9mm ST connectors.

Colors for connector components

Parameters		Specification			
		Dust cap	Housing	Boot	Duplex Clip
LC (0.9, 2.0, 3.0)	SM UPC	White	Blue	White	Blue
	SM APC		Green	White	Green
	OM1&OM2 UPC		Beige	White	Beige
	OM3 UPC		Aqua	Aqua	Aqua
	OM4 UPC		Violet	Violet	Violet
	OM5 UPC		Lime green	Lime green	Lime green
SC (0.9, 2.0, 3.0)	SM UPC	Transparent	Blue	Blue	Blue
	SM APC	Green	Green	Green	Green
	OM1&OM2 UPC	Transparent	Beige	Beige	Beige
	OM3 UPC		Aqua	Aqua	Aqua
	OM4 UPC		Violet	Violet	Violet
	OM5 UPC		Lime green	Lime green	Lime green
FC (0.9, 2.0, 3.0)	SM UPC	Transparent	Metal color	Black	N/A
	SM APC	Green		Green	
	MM UPC	Transparent		Black	
ST (0.9, 2.0, 3.0)	SM UPC	Transparent	Metal color	Black	N/A
	SM APC	Green		Green	
	MM UPC	Transparent		Black	

Ordering information:

Part No.	Product Name	Description
LC/APC-SM-2.0	Fiber Optic Connector	LC/APC, Single Mode, 2.0mm boot
SC/APC-SM-0.9	Fiber Optic Connector	SC/APC, Single Mode, 0.9mm boot
SC/UPC-SM-2.0	Fiber Optic Connector	SC/UPC, Single Mode, 2.0mm boot
SC/APC-SM-2.0	Fiber Optic Connector	SC/APC, Single Mode, 2.0mm boot
LC/UPC-SM-2.0	Fiber Optic Connector	LC/UPC, Single Mode, 2.0mm boot

Note: For the necessity of improvement, the material contained in this document is subject to change without notice.

Version: 20231027