HTSC-F02 In-Line Optic Splice Closure

Installation Guide

NOTES:

- 1. Please read the user's guide before installation.
- 2. Please pay attention while sealing the cable ports, the inappropriate installation would affect the performance.

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1. General introduction

HTSC-F02 is fiber optic splice closure equipment for multiple uses, which can contact and branch cables. It has 2 inlet port. Device can apply for wall mounting environments. The goods can use in different area and come with perfect sealing, easy installation and indeed our cover made of super strength material and temperature proof. This is our mission to dedicated perfect communication equipment and to ensure every customer has best quality of goods

2. Basic structure and configuration

2.1 Dimension and capacity

Outside dimension (LxWxH, mm)	179x72x26
Weight (w/o packing box, kg)	0.17
Sealing method	Mechanical
Number of inlet/outlet ports	2
Diameter of fiber cable (mm)	Φ6
Max. splice capacity (single fiber)	4
Working temperature (°C)	-40~+65

Notice:

In case of slightly bigger diameter of optical cable, can apply proper force to squeeze cable into grommet, and for smaller than 6mm diameter cable, using insulation tape to increase the diameter.

3. Product illustration



4. Preparation for installation

4.1 Preparation

- 4.1.1 Check the model of closure, accessories and specification of optical fiber cables before installation.
- 4.1.2 Keep all components and accessories dry and tidy for proper installation.
- 4.1.3 Keep the working place clean and flat for easy installation
- 4.1.4 Use the proper equipment and tools during the installation.

4.2 Cable installation

4.2.1 Stripping the cable in 60mm length





4.2.2 Cut the reinforced core (CSM).

Notice: Be sure not to damage the fiber. If the fibers are damaged, cut if off and stripping the new fibers.



4.3 Installation Process

- 4.3.1 Open the closure and release the screws on the splice tray.
- 4.3.2 Remove the cable block and use the proper grommet through the cable. Screw tight the cable block.
- 4.3.3 Remove the top of the aluminum cable clamp and then lead the stripped cable through, fasten the cable on the cable clamp. Insert the CSM to the clamp and screw tight, also cut the remained CSM.



4.3.4 Insert the fiber to the splice protective sleeve and fasten with nylon tie.

4.4 Fibers spliced and protection with sleeve

- 4.4.1 Insert each fiber to each splice protective sleeve.
- 4.4.2 Splicing the fibers which have the same serial numbers
- 4.4.3 Heat shrink the fibers after all are spliced and then fix on the slot.



4.5 Routing the fibers

The diameter of the bending radius should be more than 30mm.



4.6 Sealing the Closure

- 4.6.1 Routing of optical fiber should be neat in optical splice tray, the bending radius should meet the requirement.
- 4.6.2 Internal components should be fastened properly.
- 4.6.3 Plug the unused inlet/outlet drop cable ports.
- 4.6.4 The sealing tape should be used in proper volume.
- 4.6.5 Sealing tape should be placed in slot of base properly.



4.7 The installation of the Body

- 4.7.1 Put the Cover and the Bottom in alignment.
- 4.7.2 Screw the screws with wrench.



5. Application

Wall mounting application



6. FOSC inspecting and testing items

Inspecting	Technical Requirements	Inspecting type	
item		Routine test	Type test
		(Before leaving	
		factory)	
Package	Each small package contains one fiber optic splice	full	At least 3 sets
	closure, together with its accessories, tools,		sampled each
	installation manual and packing list.		time
Appearance	Intact in shape, no burrs, bubbles, chaps, pores,		
	warps, impurities and other defects, all background		
	colors should be even and continual.		
Sign	There is a clear sign on the housing, such as name		
	and model of the product, etc.		

Fiber storage	The fibers reserved are to be winded in fiber optic	At least 3 sets	
device	splice tray (FOST), the length of fibers housed in	sampled each time	
	FOST is >1.6m, the curved radius is >30mm. During		
	the installation and maintenance, there should be		
	no attenuation on fibers.		
Electrical	Inside FOSC: metallic components of fiber cables		
jointing	has the functions of electrical putting through,		
device	earthing connection and disconnecting. It is		
	possible to install earthing deriving device outside		
	the housing		
Sealing	After sealing according to the stipulated operation		
performance	procedures, the injected air pressure is		
	100KPa±5Kpa, when immersed in clean water of		
	normal temperature for 15 minutes, there should		
	be no air bubbles, then observed for 24 hours,		
	there should be no change of air pressure.		
Re-sealing	After reopening and resealing according to the		
performance	stipulated operation procedures, the injected air		
	pressure is 100KPa±5Kpa, when immersed in clean		
	water of normal temperature for 15 minutes, there		
	should be no air bubbles, then observed for 24		
	hours, there should be no change of air pressure.		
Pull	Bearing pull is \geq 800N at axle orientation, there		
	should be no breakage on the housing.		
Punching	Bearing pressure of 2000N/10cm for 1 minutes,		
	there should be no breakage on the housing		
Impact	Bearing impact energy of 16N•m, 3 times of		
	impacts there should be not breakage on the		
	housing		
Bending	The spot between the FOSC and seal fitting can		
	bear bending tension of 150N at bending angle of		
	±45 ⁰ for 10 circles, there should be no breakage on		
	the housing		
Torsion	Bearing torsion 50N•m, 10 circle at torsion		
	angle±90 ^{0,}		
	There should be no breakage on the housing.		

Temperature	Injected air pressure of 60KPa±5 KPa, the
circle	temperature circle ranging from -40°C~+65°C, 10
	times of the circular tests (one circular consists of
	high temperature for 2 hours + indoor temperature
	for 2 hours + low temperature for 2 hours + indoor
	temperature for 2 hours) when the pressure
	declines, the amplitude is \leq 5Kpa, immerse the
	swatch in clean water of normal temperature for
	15 minutes, there should be no air bubbles.
Voltage	After sealing the FOSC according to the stipulated
resistance	operation procedures, immerse it in clean water of
strength	normal temperature in 1.5m depth for 24 hours,
	there should be no breakdown or arc over between
	the metallic components of the FOSC, between
	metallic components and the ground at DC 15KV
	for 1 minutes.
Isolating	After sealing the FOSC according to stipulated
resistance	operation procedure, immerse it in clean water in
	1.5m depth for 24h, the isolating resistance
	between the metallic components of the FOSC,
	between the metallic components and the ground
	should be $\geq 2 \times 10^4 M\Omega$.

7. Customer service

Should you have any questions or suggestions, please do not hesitate to contact your local supplier.

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