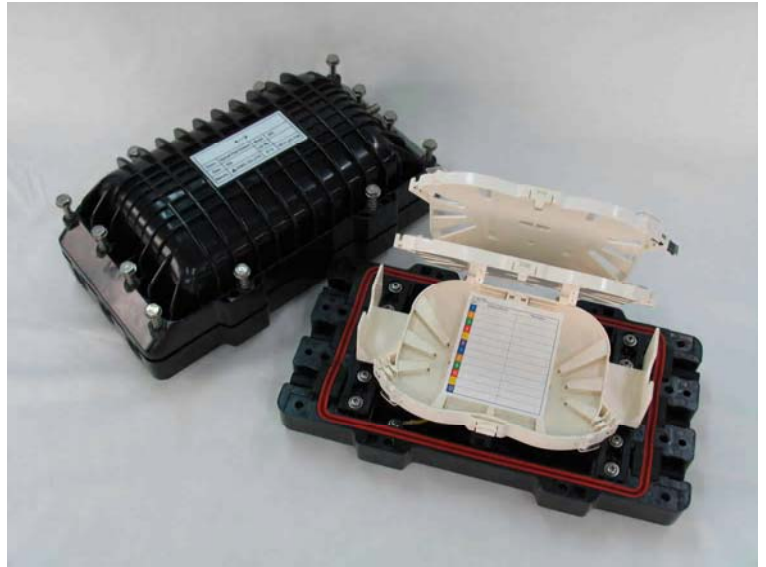


## Optical Fiber Closure

# STC-HTS

Sunil Telecom's optical fiber closure STC-HTS is the smallest in the STC HTx series. It is engineered and designed to house low-fiber count cable splices. It can be installed in various environment - aerial, buried, handhole and manhole – and either loose fibers or ribbon fibers can be connected and kept inside. Especially, splitters can be attached on splice tray for FTTH network system.

Most of all, unique sealing structure of STC HTS provides customers with easy, fast installation and efficient mid span branch.

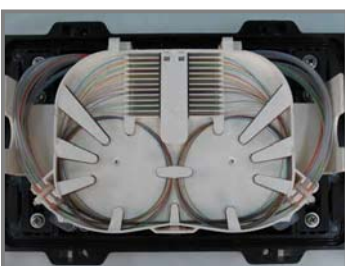


### Dimensions and Weight

	Dimension(mm)	Weight(kg)	
Closure	330(L) × 186(W) × 125(H)	2.20	Excluding trays
Packing	340(L) × 200(W) × 140(H)	3.50	Including 4 trays and a mounting pipe

### Specification

Cable inlet ports	6	3 ports at each ends
Air pressurization valve	1	For testing air leakage
Max. stack of trays	4	Max. 3 trays for attaching splitter
Max. diameter of cable	Φ17	

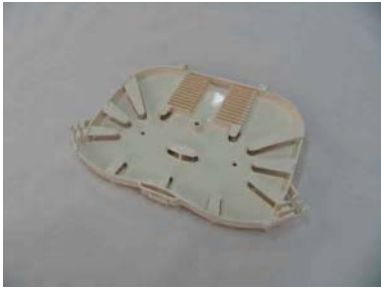


### Features

- \* Ribbed outer cases secure high mechanical solidity against impact and compression.
- \* Sealing system consist of cable clamps, cable gaskets and a case gasket provide proven watertightness and a great deal of flexibility. It's very convenient especially for branch cable splices. Diameter of 8 mm to 17 mm cables are available.
- \* Pivoting splice trays maximize density and maintain sufficient bend radius.
- \* Screwing bolts around the outer case provide easy and fast assembly.

### 3 types of splice tray

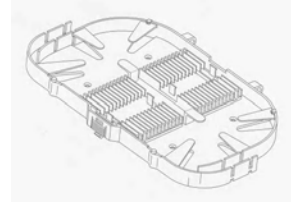
STT-SL



STT-SR



STT-SS



163(L) × 126(W) × 10(H) mm	163(L) × 126(W) × 10(H) mm	220(L) × 126(W) × 14(H) mm
Up to 4 trays in an STC-HTS. Each splice-slot hold up to 2 fibers and 12 splice-slots in each tray hold up to 24 fibers.	Up to 4 trays in an STC-HTS. Each splice-slot hold ribbon 4-fibers and 4 splice-slots in each tray hold up to 16 fibers.	Up to 3 trays in an STC-HTS. It is specially designed to hold up to 2 splitters in each tray. With splitters attached, each tray hold up to 32 fibers and hold up to 48 fibers without splitters.

### Splice Capacities

Part no. of tray	Per splice-slot	1 tray	2 trays	3 trays	4 trays
STT-SL	Loose-fiber × 1	12	24	36	48
	Loose-fiber × 2	24	48	72	96
STT-SR	Ribbon 4-fibers	16	32	48	64
STT-SS	Loose-fiber × 1	24	48	72	-
	Loose-fiber × 2	48	96	144	-
	Splitter to loose fibers	32	64	96	-

### Basically included accessories

Installation manual	1 EA
Mounting bracket	1 set ( 2EA )
Cable tie	Long 6pcs, short 20pcs
Vacuum grease	1 EA
Tweezers	1 EA
PVC tape	1 EA
Fiber protection tube	6pcs for a tray
Strength member protection tube	6 pcs



### Additional equipment to be ordered



Mounting pipe ( for manhole installation )



T-wrench ( for screwing bolts of outer case )



Sheath earthing wire



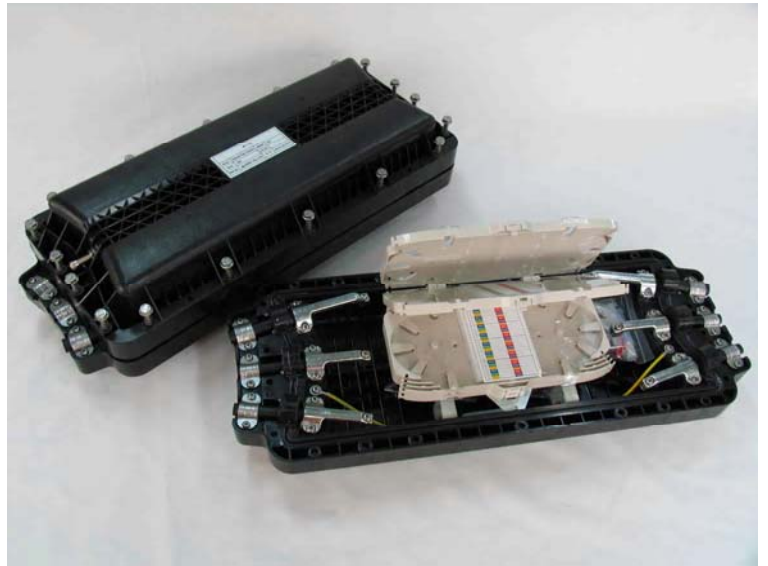
Fusion splice protector (heat-shrinkable sleeve)

## Optical Fiber Closure

# STC-HTM

Sunil Telecom's optical fiber closure STC-HTM is the medium size of the STC-HTx series. It generally houses 72 ~ 216 loose fibers. Ribbon 4-fibers and ribbon 8-fibers are also available and maximum housing capacity for each are 160 fibers and 320 fibers. It can be installed in various environment - aerial, buried, handhole and manhole.

Like other STC-HTx series, unique sealing structure of STC HTM provides customers with easy, fast installation and efficient mid span branch.

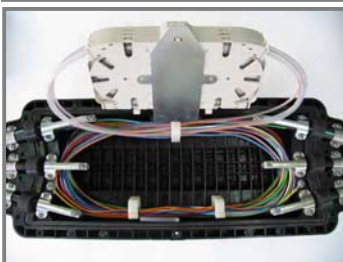


### Dimensions and Weight

	Dimension(mm)	Weight(kg)	
Closure	574(L) × 222(W) × 138(H)	4.55	Excluding trays
Packing	600(L) × 240(W) × 170(H)	6.25	Including 4 trays and a mounting pipe

### Specification

Cable inlet ports	6	3 ports at each ends
Air pressurization valve	1	For testing air leakage
Max. stack of trays	6	Max. 5 trays for ribbon-fibers connection
Max. diameter of cable	Φ27	

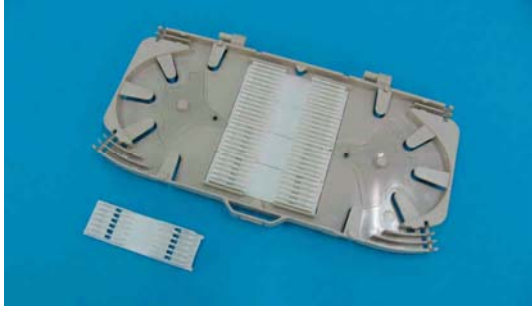


### Features

- \* Ribbed outer cases secure high mechanical solidity against impact and compression.
- \* Sealing system consist of various sizes of cable saddles, cable gaskets and a case gasket provide proven watertightness and a great deal of flexibility. It's very convenient especially for branch cable splices. Diameter of up to 27 mm cables are available.
- \* Pivoting splice trays maximize density and maintain sufficient bend radius.
- \* Screwing bolts around the outer case provide easy and fast assembly.

## splice trays for STC-HTM

STT-ML

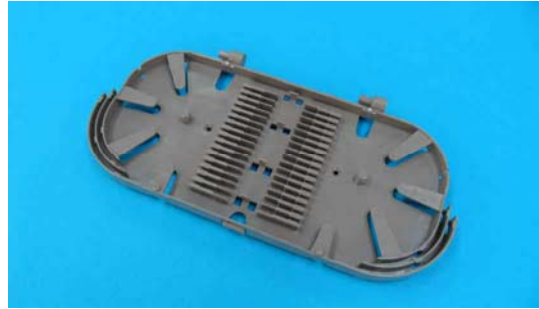


261(L) × 115(W) × 10(H) mm

Up to 6 trays in an STC-HTM. It is basically used for splicing loose fibers.

Each tray can hold up to 4 splice-holders and each holder has 6 splice-slots. Holding 2 splice-sleeves per slot, each tray can hold maximum 48 loose fibers. Considering bending radius, we recommend 36 fibers per tray.

STT-MR



261(L) × 115(W) × 12(H) mm

Up to 5 trays in an STC-HTM. It is basically used for splicing ribbon fibers.

Each tray has 8 splice-slots for ribbon fibers. 4-fiber ribbon and 8-fiber ribbon are available.

## Splice Capacities

Part no.	Per splice-slot	1 tray	2 trays	3 trays	4 trays	5 trays	6 trays
STT-ML	Loose-fiber × 1	18	36	54	72	90	108
	Loose-fiber × 2	36	72	108	144	180	216
STT-MR	Ribbon 4-fibers	32	64	96	128	160	-
	Ribbon 8-fibers	64	128	192	156	320	-

## Basically included accessories

Installation manual	1 EA
Mounting bracket	1 set ( 2EA )
Cable tie	Long 6pcs, short 20pcs
Vacuum grease	1 EA
Cable diameter gauge	1 EA
PVC tape	1 EA
Cable gasket	Depending on the cable diameter
Cable clamp	Depending on the cable diameter
Fiber protection tube	6pcs for a tray



## Additional equipment to be ordered



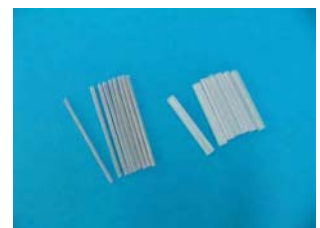
Mounting pipe ( for manhole installation )



T-wrench ( for screwing bolts of outer case )



Sheath earthing lug



Fusion splice protector (heat-shrinkable sleeve)

## Optical Fiber Closure

# STC-HTL

Sunil Telecom's optical fiber closure STC-HTL is the largest in the STC-HTx series. It is engineered and designed to house mass-fiber cable splices such as 12-fiber ribbon cables. It can be installed in various environment - aerial, buried, handhole and manhole – and either loose fibers or ribbon fibers can be connected and kept inside.

Unique sealing structure and cable assembly system of STC-HTL provides customers with easy, fast installation and efficient mid span branch.

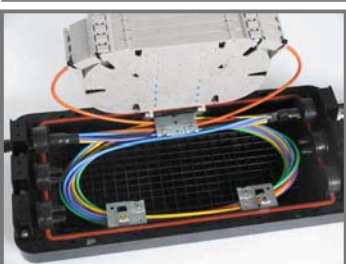


### Dimensions and Weight

	Dimmension(mm)	Weight(kg)	
Closure	620(L) × 290(W) × 210(H)	8.20	Excluding trays
Packing	640(L) × 320(W) × 240(H)	11.20	Including 4 trays and a mounting pipe

### Specification

Cable inlet ports	6	3 ports at each ends. each port can hold up to 2 cables.
Air pressurization valve	1	For testing air leakage
Max. stack of trays	4	
Max. diameter of cable	Φ28	



### Features

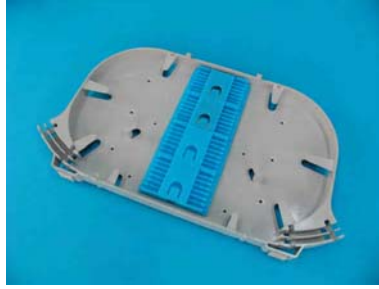
- \* Ribbed outer cases secure high mechanical solidity against impact and compression.
- \* Sealing system consist of cable fixing blocks, cable gaskets and a case gasket provide proven watertightness and a great deal of flexibility. It's very convenient especially for branch cable splice and allows for no additional cost of reentry. Diameter of up to 28<sup>mm</sup> cables are available.
- \* Pivoting splice trays maxmize density and maintain sufficient bend radius. Ample space of lower case makes it easy to keep slack of uncut tubes
- \* Screwing bolts around the outer case provide easy and fast assembly.

splice trays for STC-HTL

STT-LL



STT-LR



Splice-holders for STC-HTL



261(L) × 115(W) × 20(H) mm

Up to 4 trays in an STC-HTL. Two types of splice-holders, one for loose-fibers(12 splice-slots) another for ribbon-fibers(6 splice-slots) are basically separable from tray and available according to the fibers spliced in joint closure. Each tray can hold 4 splice-holders and two types of splice-holders can be attached together in a tray for ribbon to loose fiber splice.

**Splice Capacities**

Part no.	per splice-slot	1 tray	2 trays	3 trays	4 trays
STT-LL	Loose 1-fiber × 1	48	96	144	192
	Loose 1-fiber × 2	96	192	288	384
STT-LR	Ribbon 8-fibers	192	384	576	768
	Ribbon 12-fibers	288	576	864	1,152

**Basically included accessories**

Installation manual	1 EA
Mounting bracket	1 set ( 2EA )
Cable tie	20 pcs
Vacuum grease	2 EA
Cable fixing bracket	1 set ( 2EA )
PVC tape	1 EA
Fiber protection tube	6pcs for a tray



**Additional equipment to be ordered**



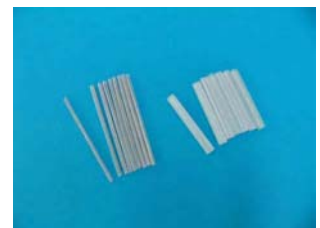
Mounting pipe ( for manhole installation )



T-wrench ( for screwing bolts of outer case )



Sheath earthing wire



Fusion splice protector (heat-shrinkable sleeve)

# Mechanical Characteristics

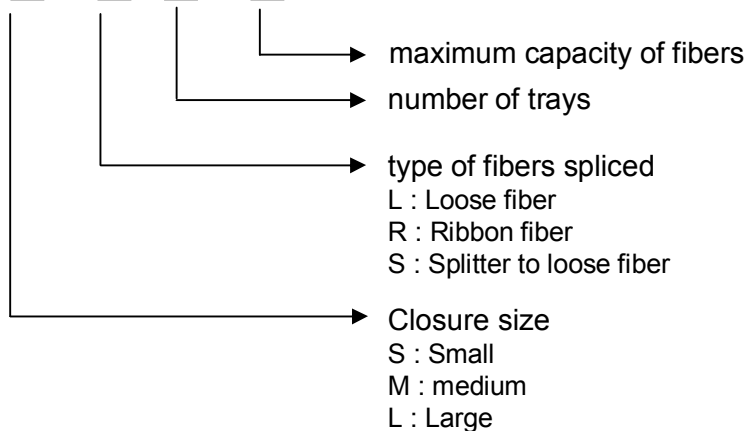
Sunil Telcom's STC-HTx series are being manufactured under strict quality standards and have gone through several inspection and testing processes for customers' satisfaction.

Test Item	Conditions	Verification
Cable Clamping	Splice 3 fibers as mentioned in manual. Measure and record initial optical attenuation. Clamp the cables to the closure and assemble all the sealing components and hardware. Remeasure optical attenuation.	There shall be no change in fiber attenuation greater than 0.05dB when compared with the initial values.
Sheath Retention	Infuse 6 psi of Nitrogen gas into the closure. Mount the assembled closure in a fixture which allows the application of an axial deadweight. Then apply an axial load of $D/45 \times 100\text{kg}$ at 100cm from the edge of the closure for 8 hours. ( D : outer Diameter of cable)	Cable sheath shall not slip out of the closure more than 1cm. There shall not be air leakage.
Bending	Mount assembled closure in a fixture that allows 90 degree bending of the cables. Attach a 10kg weight to the cable at 1m from the edge of the closure. Lower the weight for a period of 15 minutes. Rotate the closure 90° (rotate the weight as necessary to prevent torsional loading at the closure and cable interface). Repeat above steps 7 more times for a total closure rotation of 720°.	There shall not be air leakage.
Torsion	Mount assembled closure in a fixture which restrains the closure and permits rotation of cable at a distance $D \times 10\text{mm}$ from the edge of the closure. Twist the cable for a total of 10 cycles. A cycle is defined as a clockwise twist 90° followed by a 180° twist counter clockwise followed by a 90° clockwise twist back to the starting position.	There shall be no mechanical damage to either the cable sheath or closure clamping hardware. There shall not be air leakage.
Falling	Let the closure fallen down to concrete ground from the 75cm height.	There shall be no mechanical damage to the closure or its contents after being fallen.
Compression	Apply a uniformly distributed weight of 90kg for 15 minutes, using a plate having a surface area of 5cm <sup>2</sup> at the center of the closure.	There shall be no mechanical damage to the closure or its contents after being compressed.
Impact	Impact the closure using a rod with a diameter of 2.54cm, weights 2.4kg, from the height of 1m, at the center of the closure.	The closure and mounting hardware shall not exhibit any mechanical damage.
Temperature Cycling	Put 2 sets of assembled closures into the Temperature Test Chamber for 140 hours. Operate the chamber temperature between $60^\circ\text{C} \pm 2^\circ\text{C}$ and $-30^\circ\text{C} \pm 2^\circ\text{C}$ .	There shall be no visible mechanical or physical damage. There shall be no change in fiber attenuation greater than 0.1dB when compared with the initial baseline values.
Water Immersion	Prepare a water tank capable of maintaining 1.5m waterhead. Place the assembled closure to be tested into the water tank. After 20 days, remove the closure and rinse with clean water.	There shall be no evidence of the presence of water inside the closure.
Resistance to Chemical Media	Assemble 3 sets of closures. Place each of the closures in the each solvent listed below for 120 hours. -pH2 HCl -pH12 NaOH -IGEPAL(10%)	There shall be no mechanical damage or physical corruption which can affect to the performance of the closure. There shall not be air leakage.
Vibration	Place and secure the assembled closure on a vibration apparatus on a horizontal plane. Then the closure will be subjected to a forced vibration at frequency of 5Hz ~ 55Hz ~ 5Hz / 2min for 2 hours.	There shall be no change in fiber attenuation greater than 0.05dB in the midst of vibration and 0.1 dB after the end of vibration when compared with the initial baseline values.

- Contact us in case you search for further characteristics under different test conditions not mentioned above.

# Ordering Information

**STC-HT□ - □T□ - □**



Part No.	Number of trays	Max. cable diameter (mm)	Max. number of splices				
			Loose fiber		Ribbon fiber		
			1 sleeve / splice-slot	2 sleeves / splice-slot	4-fibers	8-fibers	12-fibers
STC-HTS-LT1-24	1	12.5	12	24			
STC-HTS-LT2-48	2	15.0	24	48			
STC-HTS-LT3-72	3	15.0	36	72			
STC-HTS-LT4-96	4	17.0	48	96			
STC-HTS-RT1-16	1	12.5			16		
STC-HTS-RT2-32	2	15.0			32		
STC-HTS-RT3-48	3	15.0			48		
STC-HTS-RT4-64	4	17.0			64		
STC-HTS-ST1-48	1	12.5	24	48			
STC-HTS-ST2-96	2	15.0	48	96			
STC-HTS-ST3-144	3	15.0	72	144			
STC-HTS-ST4-192	4	17.0	96	192			
STC-HTM-LT1-36	1	15.0	18	36			
STC-HTM-LT2-72	2	17.0	36	72			
STC-HTM-LT3-108	3	20.0	54	108			
STC-HTM-LT4-144	4	24.0	72	144			
STC-HTM-LT5-180	5	17.5	90	180			
STC-HTM-LT6-216	6	26.0	108	216			
STC-HTM-RT1-64	1	15.0			32	64	
STC-HTM-RT2-128	2	17.0			64	128	
STC-HTM-RT3-192	3	20.0			96	192	
STC-HTM-RT4-256	4	24.0			128	256	
STC-HTM-RT5-320	5	17.5			160	320	
STC-HTL-LT1-96	1	18.0	48	96			
STC-HTL-LT2-192	2	24.0	96	192			
STC-HTL-LT3-288	3	24.0	144	288			
STC-HTL-LT4-384	4	28.0	192	384			
STC-HTL-RT1-288	1	18.0			96	192	288
STC-HTL-RT2-576	2	24.0			192	384	576
STC-HTL-RT3-864	3	24.0			288	576	864
STC-HTL-RT4-1152	4	28.0			384	768	1,152