

Optical Fiber Mechanical Splice



I. Overview

- Indoor cable cold splice indoor cable docking special telecommunication line.
- The alloy V groove design, fiber Pre Embedded field assembly connection, the dual end polish, the special preservation techniques of refractive index (matching) liquid, the splicer is of high accuracy (98%), high strength (100N), great stability (insert loss<0.1dB, return loss>50dB) and durable life (10 years).

II. Application

- Fiber to the home (FTTH)
- FTTx Connectingup Renovation of Computer/controlling Room
- Fiber room line transformation

III. Product description

- Application for cable subscriber troubleshooting
- Applications for optical subscriber cables
- Compact size, suitable for installation of tight-buffered optical subscriber cables with dimensions [2.0x3.0]mm and straight installation in splice closures or protective sheaths.
- Precision metallic alloy components with co-axial self centering, excellent and durable optical property
- Axially firm fitting of optical fibers, reducing any performance degradation due to loss in the matching gel
- Uninterrupted fitting and connecting technology, hence signals are free of impact from external force
- The naked fiber, tight buffer and cable, etc., can fully meet the environmental requirements from the terminal customer
- Integrated protection of the casing to withstand harsh outdoor environment
- High success rate and easiness in installation with average splicing time of 150 sec
- Lock and open fiber optic on the mechanical splicer
- Material: The body is printed with information [manufacturer logo, serial number according to batch] and does not fade over time.
- The have optical fiber guiding position features a large, bright-colored funnel-shaped design, suitable for easy optical fiber installation, have size ≥ 1 mm
- Have optical fiber guiding slot and cable rest allowing in put cable and output cable easy.

- **Installation process:**
 - + Simple and easy installation process.
 - + Each fiber optic Mechanical Splice has a specialized tool for opening/locking Mechanical Splice.
 - + The fiber optic Mechanical Splice can lock the fiber optic cable before each end to support overhead operation.
 - + Includes a caliper for accurately measuring the distance for stripping the colored insulation.
- **Mini Closure Characteristics:**
 - + The accessory optic splice protection
 - + ABS plastic material/ made of high-quality, smooth plastic
 - + Be used indoors or outdoors
 - + Used on tightly wrapped cable subscription ϕ 2x3mm
 - + Mechanical splice is mounted in the closure
 - + Two-point cap structure
 - + Instal slot optical splice sure, not move
 - + Lock and open the structure flexible easy to use
 - + Cable fixed position at both ends
 - + Print manufacturer name of manufacture on mechanical splice body

IV. Specifications

No.	Item	Technical Parameters
1.	Applicable for cable type	2,2mmx 3,2mm \pm 0,2mm
2.	Cable locking	2,0x3,0mm (2 way cable) 0.125mm (2 way)
3.	Cable locking type	Screw cap
4.	Dimensions Mechanical splice (mm)	38x7x4
5.	Dimensions mini closure (mm)	95x10x7.5
6.	Optical fiber standard	G652D & 657A1 or option
7.	Tight buffer diameter	250 μ m & 900 μ m
8.	Fiber mode	Single mode or Multi mode
9.	Insert loss (IL)	\leq 0.1dB After 1 year of use: \leq 0.2dB After 2 year of use: \leq 0.4dB
10.	Return loss (RL)	\geq 45dB
11.	The success rate	$>$ 98 %
12.	Standard	IP54
13.	The number of assembly	\geq 10 times
14.	Fastening strength of naked fiber	\geq 3N (0.125 and 0.25) change \leq 0.05dB
15.	Tensile strength	\geq 40 N
16.	Using temperature, humidity	-10 ⁰ C \sim +65°C < 95 RH
17.	Operating Wavelength	1310nm, 1490nm, 1550nm
18.	Lifespan	\geq 10 years

V. Standard Package

No.	Product (P/N)	Components
1	KT-MSP	Mechanical Splicer Protector, Tissue Pape, Installation User manual, measurement adapter, pcs sealing tape, Heat Shrinkable Tube, Foil tape, Metal Ring
KT-MSP Multi-Functional Jig is provided for every 25 Mechanical Splice		

VI. Structured Product

