

# 12 CASSETTES FIBER OPTIC CABLE JOINT BOX



## Overview

The 2500401 fiber optic cable splice box can be used for direct, termination, or branch splicing of optical cables. The sealed box body provides waterproof protection without the need for resin filling. Paired with dedicated accessories, it can be used for direct burial, pipeline, manhole, overhead, pole box base installation; And it can quickly inflate and seal after completing the connection

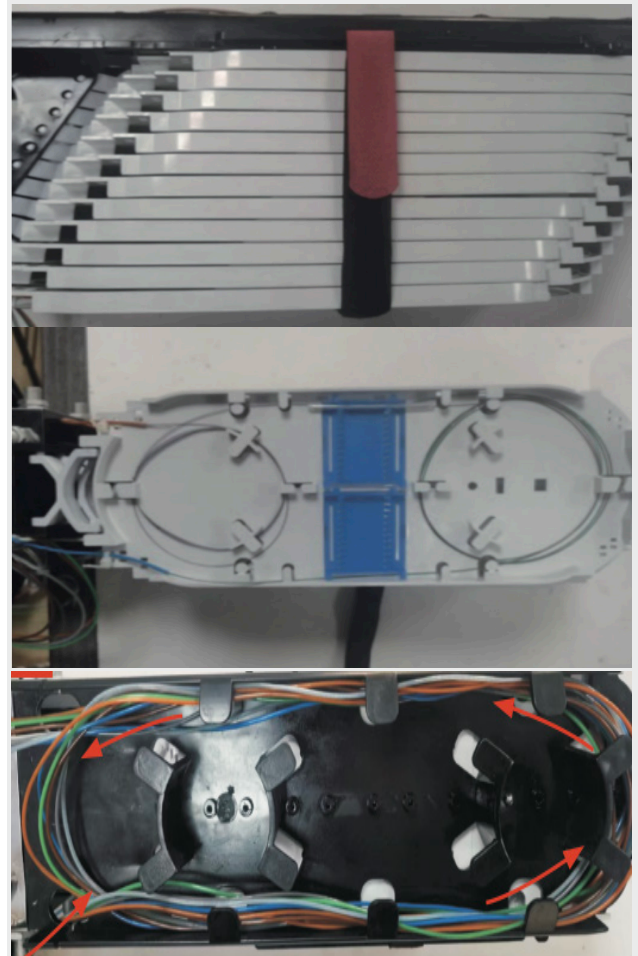
## Approved Institution



## Applications

- Telecommunication Network
- Fttb, Fttc, Gpon
- CATV-Cable Television
- Wall-Mounted, Pole-Mounted, Aerial Application

## Product Images



## Technical Specification

Parameters	
Size	500x300mm
Cable ports (inlet/outlet)	6 in/1 out
Max Capacity of Fiber	288 Fibers
Cable diameter (mm)	IN:8 - 43    OUT: 6 - 29.5
IP Rating	IP68
Splice tray capacity	24 (single core)
Splice tray	12
Max splitting	none
Temperature Range	- 40°C ~ + 80°C
Gross weight	5,2 kg
Sealing Method For Inlets	Heat shrinkable
Material	PP+GF
Sealing of Inlet/Outlet ports	Mechanical seal
Packing Info	single weight: 4.93 kg Packing quantity: 4 PCS Carton size: 67* 64* 53 CM Gross weight: 20.8 KG

## Our Approved Tests

Test Name	Conditions	Test Method	Result
Visual Inspection	Overall visual control	IEC 60512-2-1a	No visible corrosion, cracks, or leaks.
Integrity Test	Length: 5 m, Bending: 20 times, Diameter: at least 15.5 cm along the length	IEC 60068-2-6	Will not leak during normal operations.
Impact Test	Temperature: 40-25°C, Humidity: 60%	IEC 61300-3-2	Will not break, withstands impacts well.
Bending Test	Bending Angle: 90 degrees, Radius: 40 cm	IEC 61300-2-37	Cable remains operational, no breaks.
Torsion Test	Angle of Torsion: 90 degrees, Times: 10 times	IEC 60068-2-1	Cable remains intact and operational.
Compression Test	Force: 15 kg (3 min. + 4 sec.), Distance: 10 cm	IEC 60512-5	Will not be permanently deformed.
Pull Test	Force: 2 tons, Duration: 2 min.	None specified	Will not snap, durable under tension.
UV Resistance	Temperature: 55°C to 50°C, Exposure: UV (Simulated Sunlight) 10%	IEC 61300-2-20	Degradation less than 20% after exposure.
Static Load Test	Weight: 100 kg, Duration: 10 min.	IEC 60512-5	No deformation or breaking under weight.
Chemical Resistance Test	Temperature: 23°C, Chemicals: NaOH, HCl, Gasoline	IEC 61300-3-24	Resists common industrial chemicals.

The following tests were applied to the junction box, and as a result, no damage occurred in the junction box. These tests were approved by a six-person Türk Telekom committee during the factory acceptance inspection

Test Name	Conditions	Test Method	Result
Visual Inspection	Visual inspection of the product	IEC 60512-2-1a	No scratches, cracks, or indentations on the box.
Waterproofing	Test Temperature: 23±3 °C Depth: 6 m Test Duration: 5 days	IEC 61300-2-32	Water does not enter the box. Laser label does not come off.
Vibration	Test Frequency: 10-55 Hz (sinusoidal) Amplitude: 0.75 mm, Pressure: 40±2 kpa Test Duration: 2 hours each direction Minimum 8 ft (1550 mm wave length)	IEC 60068-2-6	No water leakage* No cracking or breaking Maximum loss change <0.1dB
Temperature Change	+40± 2°C to -60± 2°C Transition time: 1 hour, Period: 20 Waiting time: 2.5 hours Pressure: 40±2 kpa	IEC 61300-2-22 IEC 60068-2-14	No water leakage* No cracking or breaking, laser label does not come off Maximum loss change <0.1dB
Bending	Test Temperature: 23±3 °C Load: 500 N, 30g Start: 40±2 kpa Force Application Point: 10xD Period: 5, (D: cable diameter)	IEC 61300-2-37	No water leakage* Cable does not shift.
Torsion	Pressure: 40±2 kpa, Load: 90 kN 90° to 90° rotation Force Application Point: 10xD Period: 2 (each cable)	IEC 60068-2-17	No water leakage* Cable does not shift.
Impact	Test Temperature: +15±3 °C (min. 4 hours) Pressure: 40±2 kpa Number of impacts: 1 Impact weight: 1 kg steel ball Impact height: 1 m.	IEC 60512-5	No water leakage* Cable does not shift.
Drop	Test Temperature: 23±3 °C Height: 2 m, Drop angle: 60° (free fall).	None	No water leakage* Cable does not shift.
UV Resistance	Test Temperature: 50 °C < > 65 °C Continuous 313 nm wave UV light Source to be used, Sample number: 10	IEC 61300-2-30 ISO 180	Tensile strength change does not exceed 20%.
Static Load	Test Temperature: -15±3 °C Pressure: 40±2 kpa Test duration: 10 minutes Static Load: 1000 N/25 cm²	IEC 60512-5	No water leakage* No cracking or deformation.
Static Load	Test Temperature: 23±3 °C Pressure: 40±2 kpa Test environment: NaOH, HCl, Gasoline H2SO4, 5% in solution	IEC 61300-3-24 IEC 60068-2-11	No wear, no degradation, laser label does not come off.

The asterisk "\*" indicates that during the tests, the box was immersed in water at a pressure of 40±2 kpa for 15 minutes and did not show any signs of air leakage.