



PN: FLOFDC24-96C

Optical Fiber Closure

TECHNICAL DATA SHEET

**Dome Type Fiber Optic Splice Closure –
24–96 Core**



Dome Type Fiber Optic Splice Closure – 24–96 Core

Product Description

The 24–96 Core Dome Type Fiber Optic Splice Closure is a versatile outdoor fiber management enclosure designed to protect fiber optic splices in FTTH, FTTx, CATV, and telecommunications networks. Depending on the splice tray configuration, it supports capacities ranging from 24 to 96 fiber cores, making it suitable for both distribution and backbone applications.



Manufactured from high-strength PC/ABS engineering plastic, the closure provides excellent resistance to UV radiation, impact, corrosion, and harsh weather conditions. The enclosure features a heat-shrink sealing system, ensuring IP68-rated waterproof and dustproof protection. It supports aerial, underground, duct, wall-mounted, pole-mounted, and direct-burial installations.

The hinged splice trays provide convenient access for installation, maintenance, and network expansion without disturbing existing fiber connections.

Product Features

- Supports **24 to 96 fiber cores**
- Supports **12 or 24 fibers per splice tray**
- Up to **4 splice trays**
- IP68 waterproof and dustproof protection
- High-strength UV-resistant PC/ABS housing
- Heat-shrink cable sealing system
- Re-enterable design for easy maintenance
- Hinged flip-down splice trays
- Oval cable port supports mid-span cable entry
- Optional grounding valve installation



- Suitable for loose tube and ribbon fiber cables
- Excellent resistance to UV, aging, corrosion, and impact
- Long service life

Applications

- FTTH Access Networks
- FTTx Networks
- GPON Networks
- CATV Systems
- Telecommunications Networks
- Optical Distribution Networks
- Backbone Fiber Networks
- Direct Burial Installations
- Underground Duct Networks
- Aerial Fiber Networks

Product Specifications

Parameter	Specification
Product Type	Dome Fiber Optic Splice Closure
Fiber Capacity	24–96 Cores
Splice Tray Capacity	12 or 24 Fibers per Tray
Maximum Number of Trays	4
Closure Type	Dome
Material	PC / ABS Engineering Plastic
Color	Black

Protection Rating	IP68
Sealing Method	Heat Shrink Seal
Cable Ports	1 Oval + 4 Round
Installation	Wall Mount, Pole Mount, Aerial, Underground, Direct Burial, Duct

Cable Port Specifications

Port Type	Specification
Oval Port	1 Port (Ø8–23 mm, Mid-span Entry)
Round Ports	4 Ports (Ø6–16 mm)
Cable Sealing	Heat Shrink Tubes

Physical Specifications

Item	Specification
Outside Dimensions	315 × Ø174 mm
Housing Material	UV-Resistant PC/ABS
Internal Hardware	Stainless Steel
Fiber Storage	Integrated
Re-entry	Supported

Optical Performance

Parameter	Specification
Fiber Bend Radius	≥ 40 mm
Additional Insertion Loss	≤ 0.01 dB
Fiber Protection	Heat Shrink Sleeves

Mechanical Performance

Test Item	Specification
Side Pressure Resistance	≥ 2000 N / 10 cm
Impact Resistance	≥ 20 N·m
Voltage Strength	15 kV / 1 Minute (No Breakdown or Flashover)
Re-entry Capability	Yes

Environmental Performance

Test Item	Specification
Operating Temperature	-40°C to +65°C
Protection Rating	IP68
Waterproof	Yes
Dustproof	Yes
UV Resistance	Excellent
Corrosion Resistance	Excellent
Humidity Resistance	Suitable for Outdoor Use

Package Contents

- Dome Fiber Optic Splice Closure
- Up to 4 × Splice Trays
- Heat Shrink Sealing Kit
- Cable Sealing Accessories
- Grounding Kit
- Mounting Hardware
- Installation Manual