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Fiber Optic Closure
BOFC-C2

AJW BOFC-C2 is designed to manage fiber splices with ease of maintenance for installers. Its versatility and durability allow direct buried, underground and aerial applications with flame retardant and UV resistant body. It is a mechanical closure, sealed with a silicone rubber gasket designed and shaped according to the groove of the closure. The sealing gasket can be easily replaced when damaged. The sealing gasket remains water-proof even with opening and closing the closure multiple times. It is easy and convenient to install and helps to reduce installation time and training. It offers mid-span application. It is compliant with Telcordia GR-771-CORE, IEC 61300-2-22, IEC 60068-2-14, and satisfies Test Methods; IEC 61300-2-38 Method B: IEC 61300-2-38 Method A; IEC 60068-2-17 Test Qc: IEC 61300-3- 1; IEC 61300-2-12 Method B; IEC 61300-2-23 Method 2; IEC 61300-2-34; IEC 61300-2-26; IEC 60068-2-

11 Test Ka; IEC 61300-2-22; IEC 60068-2-14 Test Nb; IEC 61300-2-33.

Horizontal sealed box design, assembled from two shell pieces and connected by bolts and screws.

Service Life: more than 20 years, Warranty: 2 years

Reusability: Minimum 10 opening and closing cycles while maintaining technical specifications: tight sealing; no deformation, cracking, or breakage of the switchgear components.

Made of black synthetic resin, resistant to UV rays and rodents; does not age, become brittle, crack, or break over time.

Resistant to chemical corrosion and capable of withstanding a minimum compressive force of 1000N/25cm², and impact from a 1kg steel ball dropped from a height of 2m (for underground connectors) and 1m (for overhead connectors).

Features identifying marks (serial number or engraved year/month of manufacture or warranty sticker that does not peel or flake in water) ensuring easy identification for warranty purposes.

Waterproofing Mechanism:

The sealing gasket must be seamless, fitted precisely between the two sleeve pieces, and made of elastic silicone rubber material, allowing for multiple opening/closing cycles without replacement, ensuring watertightness (do not use gaskets made of soft rubber).

At cable entry/exit ports: use sealing plugs made of elastic silicone rubber, allowing for multiple uses, and ensuring watertightness (use soft rubber only in the case of subscriber line connections).

If using waterproofing gel to enhance watertightness: use a grease-like gel, insoluble in water, easy to wipe clean, and easy to clean when opening/closing the sleeve (do not use hardened silicone sealant).

Fiber optic cable fixing mechanism in a sleeve:

- Securely fix the cable collar using a plastic cover of appropriate size for the cable diameter + bolts, screws, or stainless steel clamps.

- The central reinforcing component of the cable, after fixing, must be parallel to the horizontal plane and not bent or broken. The bolts securing the reinforcing wire must not be stripped, broken, or have damaged threads.

Vibration damping mechanism:

The splice enclosure meets the vibration damping standard at frequencies of 5Hz => 55Hz => 5Hz, sinusoidal waveform with a minimum amplitude of 1 mm.

The splice trays are securely installed inside the splice enclosure.

Requirement: The splice enclosure must be airtight, free from cracks or breakage, and must not affect the quality of the optical fiber (splicing loss should not exceed 0.05 dB) after testing.

Cable tray capacity (number of splices supported) and number of cable entry/exit ports:

144Fo cable tray capacity: 6 cable entry/exit ports, and supports 144 splices.

All cable ports, before cable connection, must be sealed or have stoppers to ensure airtightness and prevent dust and water ingress.

Physical Specification

Item	BOFC-C2
Size (mm) L x W x H	510 x 230 x 145
Weight	4.4 kg
No. of Cable Port	6 (Ø3 ~ Ø20)
Fiber Splice (Single / Double)	144 fs / 288 fs
Splice Tray	6
IP	68
IK	10
Operating Temperature	-10 °C to +65 °C
Maximum humidity	100% RH

 All components are compliant with EU RoHS Directive (2011/65/EU amended by 2015/863). 17 – 04 – 2025

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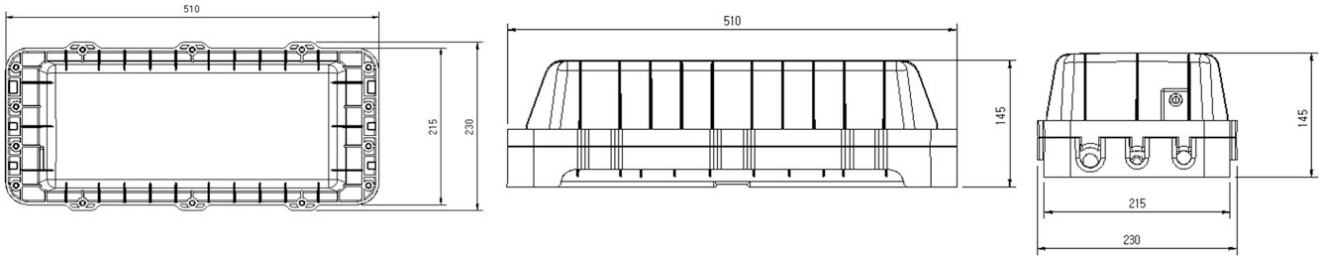
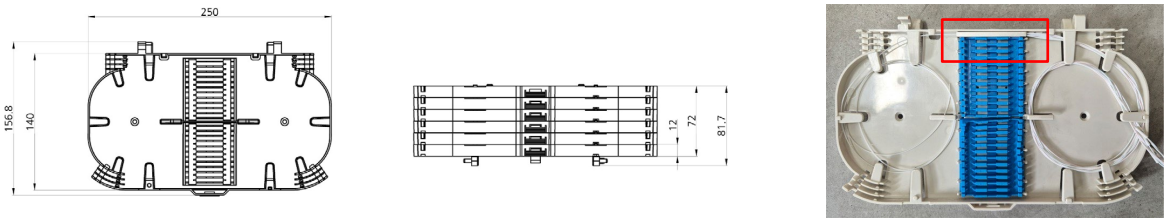
Body



- In-Line, Bolt-In Type, IP68, IK10 satisfied
- Fitted to buried, underground and aerial applications
- Simple re-entry system with bolt-in mechanism that allows easy field installation work
- Material: PC/ABS, flame retardant, UV resistant
- Mid-span application

Air Valve

Splice Tray



Fiber Optic Splicing Trays:

Made of durable, lightweight synthetic plastic with high dimensional stability and resistance to aging. The splice trays are detachable. The splice trays are arranged vertically within the splice enclosure.

The splice trays are installed in the enclosure in a rational and scientific manner, allowing for opening/closing in a defined direction without affecting transmission quality (fiber breakage, increased attenuation, etc.), facilitating splicing and repair of fiber optic cables.

Each splice tray has a capacity of 24 thermal splices and a space for installing one naked splitter while still ensuring splicing and fiber storage within the tray.

The internal space of the splice tray allows for fiber storage and ensures that the bending radius of the fiber at all positions is always ≥ 30 mm.

The splice trays have transparent plastic covers for easy observation of the stored fibers and splices. The color code of the identification label for the fiber optic splice order in the splice tray must comply with EIA/TIA-598.

The splice locator (comb slot) in the splice tray: made of soft plastic, 5 mm high, ensures a secure hold of 60 mm long heat shrink tubing and allows for easy removal of heat shrink tubing without affecting other heat shrink tubing. When securing the heat shrink tubing, it does not affect the quality of the optical fiber (additional attenuation of the optical fiber after storage in the splice tray ≤ 0.05 dB).

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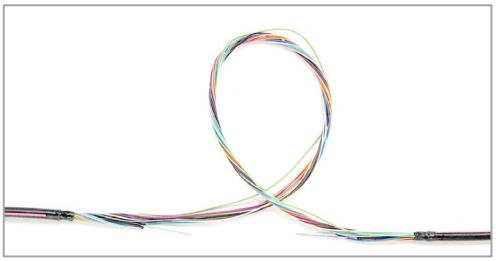
Mid-Span Access

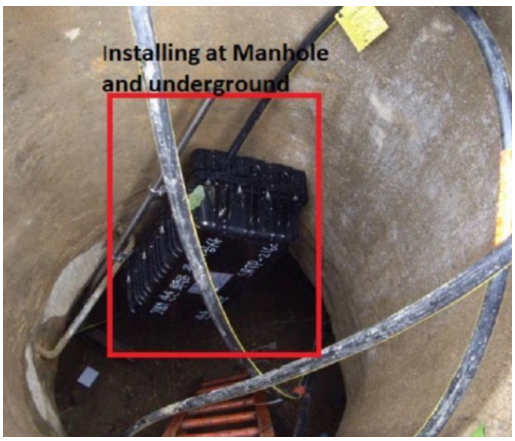


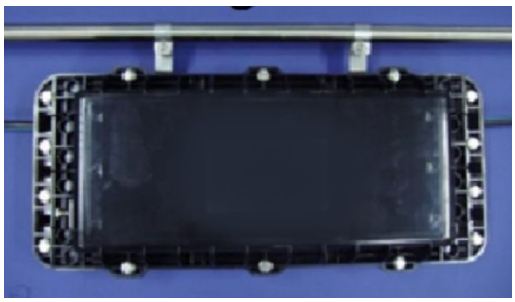
- The structure allows mid-span access, fixing and arranging the loose buffer tubes without being cut when passing through the closure.
- Bending radius for the loose buffer tube: ≥ 30mm

Accessories included with the switchgear:

Adhesive tape: 1 roll.
100 mm and 200 mm plastic cable ties (for securing loose pipes and subscriber lines).
6-color flexible plastic tubing set.
Water-sealing gel with applicator (if applicable).
Suitable for gate stoppers and silicone rubber gaskets.
Switchgear disassembly and assembly tools (if applicable).
Heat shrink tubing (according to switchgear capacity).
Switchgear mounting bracket set (for hanging switchgear).
Installation instructions (in Vietnamese).

Application





- Underground, Manhole
- Aerial

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Splice Protection Sleeve

Splice Protection Sleeve is designed to protect the spliced fibers inside the optical enclosure. It shrinks evenly and is well fitted to splice holders on the splice tray.

Number of heat shrink tubing: according to the splice tray capacity (144 heat shrink tubing).

Outer tube made of transparent polyolefin plastic, inner diameter from 2.0 mm to 3.0 mm and thickness from 0.15 mm to 0.25 mm.

Inner tube made of transparent EVA (Ethylene Vinyl Acetate) plastic, inner diameter from 1.3 mm to 1.5 mm and thickness from 0.3 mm to 0.5 mm.

Reinforcement wire made of stainless steel, diameter from 1.0 to 1.5 mm; length from 54 mm to 56 mm.

Physical Specification

Category	Description	Specification
Fiber Diameter		250, 900μm
Structure (3 layers)	Outer Tube	PE+EVA
	Inner Tube	EVA
	Reinforcing Pin	SUS 304
Color	Standard	Clear as Standard
Humidity	RH	≤ 95%
Dimension	Sleeve Length	60±2mm
	Pin Length	56±2.5mm
	Inner Diameter	Ø2.1mm
	Pin Diameter	Ø1.1mm
	Outer Diameter Before Shrinkage	3.3mm
	Outer Diameter After Shrinkage	2.45 ~ 2.60mm
Heating	Heat Shrinkage	90 °C to 120 °C
	Operating RH	≤ 90%
	Thermal Shrinkage Rate by center	> 50% Dielectric strength (kV / mm) ≥20
	Axial Thermal Shrinkage	< 3%
	Tensile Strength (Mpa)	20
	Low Heat Resistance Properties	No cracking at -55 ° C after 4 hours. Loss at -40 ° C, 0.01dB
	Operating Temperature	- 40 °C ~ + 65 °C
	Attenuation at + 60 °C	RH95% 0.01dB
	Loss Before And After Heat Shrink at 1550nm / 1625nm	≤ 0.05dB

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