

Optical Cable Metal Joint Box (OPGW)

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24 Fibers OPGW Optical Cable Metal Joint Box



Part Number: 023991



An OPGW (Optical Ground Wire) Joint Box also known as a splice box, metal joint box, or approach joint closure is a ruggedized outdoor enclosure installed on high-voltage transmission towers, poles, or substation structures to splice, organize, and protect fiber optic connections.

Key Functions

- **Splicing & Continuity:** Joins continuous spans of OPGW cables or transitions overhead OPGW strands to indoor/underground approach/download cables that run down to the substation control room.
- **Environmental & Mechanical Protection:** Shields delicate fiber splices from moisture, high winds, ultraviolet rays, extreme temperature swings (-40°C to +60°C), and severe mechanical stress.
- **Bending Radius Control:** Internal aluminum or engineering-plastic splice trays store excess slack buffer tubes while maintaining safe minimum bending radii to prevent signal loss.
- **Grounding & Safety:** Equipped with lightning and fault-current grounding devices to handle high-voltage proximity on overhead ground wire systems.

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Technical Specification

Parameter	Description
Style	Dome enclosure box
Dimensions (mm)	420(L)×200(W)×128(H) mm
Weight (kg)	6.2
Material	Metal
Sealing Type	Mechanical Seal
Protection Grade	IP68
Cable ports	2 ports
Cable diameter	Φ10-20mm
Fiber Splice Capacity	24F
Splice Tray Capacity	Single fiber splicing per tray
Max No. tray installed	24F
Application	ADSS and OPGW cable joint

