# FIBERLIGN® DOWNLEAD CUSHION

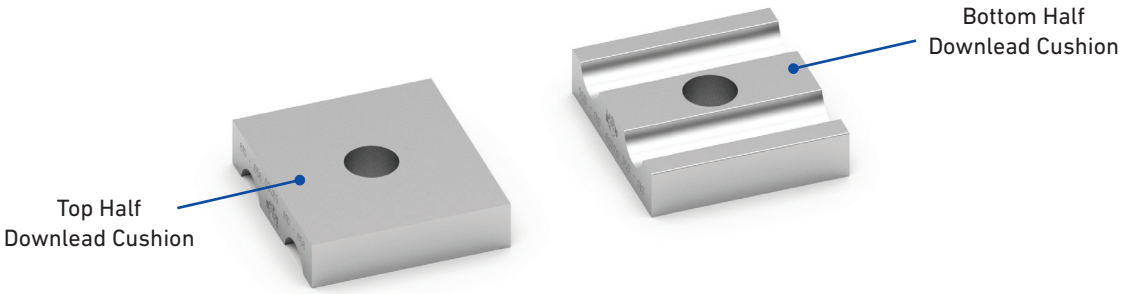
The **FIBERLIGN Downlead Cushion** secures OPGW downleads to poles or structures while minimizing compressive clamping forces which could be transferred to the optical elements. The Downlead Cushion is a two-piece design with a base and cap that has parallel grooves to accommodate specified OPGW diameters. Various mounting accessories can be included to install the Downlead Cushion on different types of utility poles and structures, including lattice towers.

## FEATURES AND BENEFITS

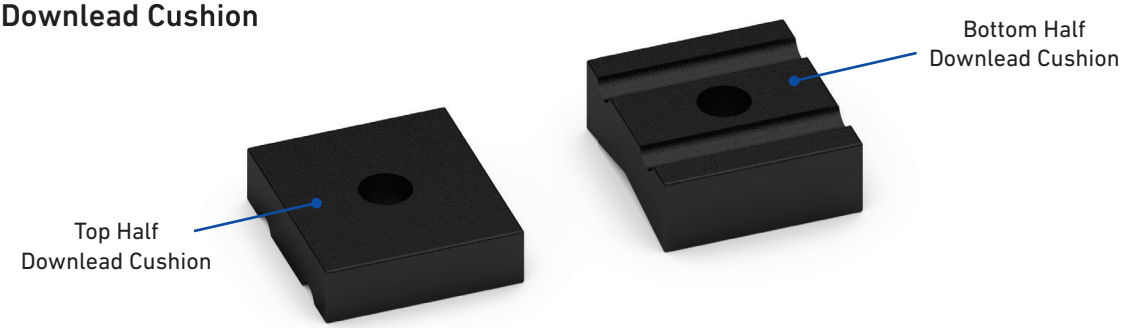
- Firmly secures OPGW to poles and structures without compromising OPGW integrity
- Standard cushion has two grooves to support each OPGW downlead
- Made from an all-aluminum alloy that provides an electrical path from the OPGW to the structure for bonding purposes or urethane
- Kits can include mounting accessories to secure the downlead cushion to poles (wood, concrete, or metal) or lattice towers

# COMPONENTS

## Aluminum Downlead Cushion




## Urethane Downlead Cushion




# MOUNTING ACCESSORIES

- Select the appropriate mounting kit based on the type of pole or structure used.
- Order the 1/2"-13 UNC Hex Head Bolt Hardware Kit when mounting a Downlead Cushion to a metal or concrete pole with a 1/2"-13 UNC female interface.
- The Banding Bracket Kit does not include banding to mount the bracket to the pole. Banding must be purchased separately. **NOTE:** The Banding Bracket can accept up to 1-1/4" wide banding.

## Wood Pole

Wood Pole Mounting Hardware Kit
(Suffix Code: H1)
**(Catalog Number: 710010017)**

## Metal or Concrete Pole

1/2"-13 UNC Hex Head Bolt Hardware Kit
(Suffix Code: H3)
**(Catalog Number: 710011655)**

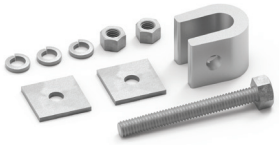
Banding Bracket Kit
(Suffix Code: B1)
**(Catalog Number: 710010576)**

# MOUNTING ACCESSORIES

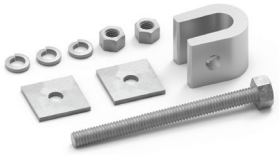
FIBERLIGN®

- Lattice Tower Clamp Kits are for mounting Downlead Cushions to lattice towers with tower members up to 1-1/8" thick.
- Order the Metal Pole/Lattice Tower Clamp Kit when mounting a Downlead Cushion from a ladder clip of a metal pole that is 1/2" thick and has an opening of 1-1/2" wide or from lattice tower members up to 1-1/8" thick.
- Order the Horizontal Metal Pole/Lattice Tower Clamp Kit when mounting a Downlead Cushion from a ladder clip of a metal pole that is 1/2" thick and has an opening of 1-1/2" wide or the edge of a lattice tower member up to 1-1/8" thick.

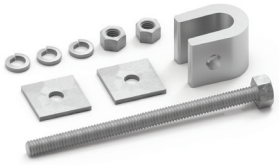
## Lattice Tower



Lattice Tower Clamp Kit with 6" Long Bolt
(Suffix Code: LTC1)
**(Catalog Number: LTC-1)**



Lattice Tower Clamp Kit with
8" Long Bolt
**(Catalog Number: 7000402)**

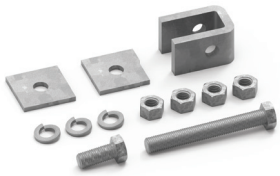


Lattice Tower Clamp Kit with
10" Long Bolt
**(Catalog Number: 7000401)**

Light-Duty Lattice Tower Clamp Kit
(Suffix Code: LTC2)
**(Catalog Number: LTC-2)**

## Metal Pole or Lattice Tower

Metal Pole/Lattice Tower Clamp Kit
**(Catalog Number: 710015838)**



Horizontal Metal Pole/Lattice Tower Clamp Kit
**(Catalog Number: 710016505)**

FIBERLIGN Aluminum Downlead Cushion
for OPGW Mounted to Steel Pole with
Metal Pole/Lattice Tower Clamp Kit

FIBERLIGN Urethane Downlead Cushion for
OPGW Mounted to Steel Pole with Horizontal
Metal Pole/Lattice Tower Clamp Kit



CO-CA-1024-1

# ORDERING INFORMATION

- Select the appropriate catalog number for the Downlead Cushion from the table below using the OPGW diameter and the type of pole or structure the Downlead Cushion will be mounted to.
- Order the Downlead Cushion with the 1/2"-13 UNC Hex Head Bolt Hardware Kit when the Downlead Cushion is being mounted to a metal or concrete pole with a 1/2"-13 UNC female interface.
- Downlead Cushions that are ordered with the Banding Bracket Kit do not include banding to mount the bracket to the pole. Banding must be purchased separately. **NOTE:** The banding bracket can accept up to 1-1/4" wide banding.
- Downlead Cushions ordered with the Lattice Tower Clamp Kit are used for mounting the cushions to lattice towers with tower members up to 1-1/8" thick.

## Aluminum Downlead Cushion

| Catalog Number | | | | | | OPGW Diameter Range | |
|---|---|---|---|---|---|---|---|
| Cushion Only | Cushion with Wood Pole Mounting Hardware Kit | Cushion with 1/2"-13 UNC Hex Head Bolt Hardware Kit | Cushion with Banding Bracket Kit | Cushion with Lattice Tower Clamp Kit | Cushion with Light-Duty Lattice Tower Clamp Kit | in | mm |
| 8003644 | 8003644H1 | 8003644H3 | 8003644B1 | 8003644LTC1 | 8003644LTC2 | 0.328 – 0.374 | 8.3 – 9.5 |
| 8003654 | 8003654H1 | 8003654H3 | 8003654B1 | 8003654LTC1 | 8003654LTC2 | 0.375 – 0.422 | 9.5 – 10.6 |
| 8003653 | 8003653H1 | 8003653H3 | 8003653B1 | 8003653LTC1 | 8003653LTC2 | 0.423 – 0.468 | 10.7 – 11.8 |
| 8003266 | 8003266H1 | 8003266H3 | 8003266B1 | 8003266LTC1 | 8003266LTC2 | 0.469 – 0.515 | 11.9 – 13.0 |
| 8003267 | 8003267H1 | 8003267H3 | 8003267B1 | 8003267LTC1 | 8003267LTC2 | 0.516 – 0.562 | 13.1 – 14.2 |
| 8003268 | 8003268H1 | 8003268H3 | 8003268B1 | 8003268LTC1 | 8003268LTC2 | 0.563 – 0.609 | 14.3 – 15.4 |
| 8003269 | 8003269H1 | 8003269H3 | 8003269B1 | 8003269LTC1 | 8003269LTC2 | 0.610 – 0.656 | 15.5 – 16.6 |
| 8003270 | 8003270H1 | 8003270H3 | 8003270B1 | 8003270LTC1 | 8003270LTC2 | 0.657 – 0.703 | 16.7 – 17.8 |
| 8003271 | 8003271H1 | 8003271H3 | 8003271B1 | 8003271LTC1 | 8003271LTC2 | 0.704 – 0.750 | 17.9 – 19.0 |
| 8003477 | 8003477H1 | 8003477H3 | 8003477B1 | 8003477LTC1 | 8003477LTC2 | 0.751 – 0.797 | 19.1 – 20.2 |

## Urethane Downlead Cushion

| Catalog Number | | | | | | OPGW Diameter Range | |
|---|---|---|---|---|---|---|---|
| Cushion Only | Cushion with Wood Pole Mounting Hardware Kit | Cushion with 1/2"-13 UNC Hex Head Bolt Hardware Kit | Cushion with Banding Bracket Kit | Cushion with Lattice Tower Clamp Kit | Cushion with Light-Duty Lattice Tower Clamp Kit | in | mm |
| 8003806 | 8003806H1 | 8003806H3 | 8003806B1 | 8003806LTC1 | 8003806LTC2 | 0.280 – 0.374 | 7.1 – 9.4 |
| 8003041 | 8003041H1 | 8003041H3 | 8003041B1 | 8003041LTC1 | 8003041LTC2 | 0.375 – 0.468 | 9.5 – 11.8 |
| 8003042 | 8003042H1 | 8003042H3 | 8003042B1 | 8003042LTC1 | 8003042LTC2 | 0.469 – 0.562 | 11.9 – 14.2 |
| 8003043 | 8003043H1 | 8003043H3 | 8003043B1 | 8003043LTC1 | 8003043LTC2 | 0.563 – 0.656 | 14.3 – 16.6 |
| 8003044 | 8003044H1 | 8003044H3 | 8003044B1 | 8003044LTC1 | 8003044LTC2 | 0.657 – 0.750 | 16.7 – 19.0 |
| 8003052 | 8003052H1 | 8003052H3 | 8003052B1 | 8003052LTC1 | 8003052LTC2 | 0.751 – 0.849 | 19.1 – 21.5 |
| 8003256 | 8003256H1 | 8003256H3 | 8003256B1 | 8003256LTC1 | 8003256LTC2 | 0.850 – 0.950 | 21.6 – 24.1 |
| 8003257 | 8003257H1 | 8003257H3 | 8003257B1 | 8003257LTC1 | 8003257LTC2 | 0.951 – 1.050 | 24.2 – 26.6 |
| 8003379 | 8003379H1 | 8003379H3 | 8003379B1 | 8003379LTC1 | 8003379LTC2 | 1.051 – 1.190 | 26.7 – 30.2 |

FIBERLIGN Aluminum Downlead Cushion for OPGW Mounted to Wood Pole (Suffix Code: H1)

FIBERLIGN Urethane Downlead Cushion for OPGW Mounted to Steel Pole (Suffix Code: H3)

FIBERLIGN Aluminum Downlead Cushion for OPGW Mounted to Lattice Tower (Suffix Code: LTC1)