# FIBOX ENCLOSURES

## Fibox Message

World leader in UL listed NEMA 4X& 6P Polycarbonate Enclosures
Water-tight, Dust – Free, Rust-Free, High Impact Resistance, UV Resistant, Easily Customizable, 4X is watertight and rust free for rain, sleet and snow and debris, 6P is submersible and rust free 24 hours.

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## Versatility

Fibox offers screw cover enclosures and hinged cabinet style enclosures ranging in size from 2x2x2 inches to 32x24x12 inches.

Polycarbonate is a light-weight, robust industrial plastic that flexes on impact, compared to metal, or fiberglass

ARCA – JIC, MNX and TEMPO offers preformed Knock-outs in the base
Most Fibox Enclosures offer a transparent cover (T)

1. **It's "plastic", can't be as strong as steel?** Fibox products rated to IK8, 9 & 10, the same as leading mild and stainless-steel enclosures. Unlike steel however, which will dent, polycarbonate flexes and will "bounce back" after an impact, thus maintaining its shape and ingress protection.

2. **It's plastic, it won't last outdoors?** Yes, it will. UV-stabilized polycarbonate is long lasting, and ARCA has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3. **It's not shielded?** Fibox polycarbonate, is Radio transparent. eliminating the need for an external antenna, reducing the risk of any damage and vandalism. However, for applications that require shielding, a steel enclosure may be a better option.

4. **Chemical Resistance** Fibox polycarbonate, is resistant to many chemicals check out the chemical resistance chart on the Fibox's website .

## WWW.FIBOXUSA.COM

**FIBOX**
Enclosing innovations

## Common Customers/Markets/Applications

- OEMs, System Integrators , Contractors and End Users

- **Applications**: Power and control cabinets in harsh and corrosive environments, Housing of wall & pole mount, Solar dc isolators, Remote Pump control in Water/Wastewater, Aquaculture applications, Automation IoT and other Telemetry applications. Transportation, Telecommunications, Energy

## Key Questions

**If buying an enclosure:**
    Ask if they need a DIN-Rail or a Mounting Pannel.
    Ask if need any cable management accessories.
    Ask if they will need any ventilation devices.
    Ask if this a prototype, if yes will they need any machining
    Would you like Fibox to machine the enclosure with holes. Or if they want an enclosure base with knock-outs

**If buying other products like switches, relays, motor controls or HMI's**

    Ask what are you building?
    Ask what are you putting this into?
    Ask if it will be indoors or outdoors?
    Ask if the HMI will need protection from the elements
    Ask if they need to limit access to the HMI?

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|---|---|
| Hinged Cabinet: | ARCA-IEC, ARCA-JIC, CAB |
| Screw Cover: | ARCA – JIC, CARDMASTER, EURONORD, MNX, PICCOLO, SOILID, TEMPO |
| Transparent Covers: | ARCA-JIC, CAB, CARDMASTER, EURONORD, MNX, PICCOLO, SOILID, TEMPO |
| Knock-Out Bases, | ARCA-JIC,MNX, TEMPO |

# FIBOX ENCLOSURES

| Features: | Advantage: | Benefits: |
|---|---|---|
| Polycarbonate body & door, rust proof, resilient | o  Enclosure fully insulated up to 1500V per 2006/95/EC<br>o  100% rust + corrosion free, even after drilling/cutting<br>o  RF transparent, ideal for IoT/telemetry ,Wi-Fi applications.<br>o  Does not deform after impact, unlike sheet steel enclosures | o  Safe even after internal equipment failure<br>o  Easy to drill and cut without special tools<br>o  Antennas can remain in box, no risk of damage<br>o  Maintains NEMA, IP rating aesthetics after impact |
| UV tested to 25 years field life | o  UV stabilized according to UL 508 (F1) – ideal for outdoor use<br>o  Does not delaminate or dry out like other plastics such as Fiberglass | o  Long maintenance-free life<br>o  Install and forget about enclosure degrading<br>o  Maintains good aesthetics over lifetime |
| Double corner design<br>Wall mount locations, strength | o  Wall mounting holes outside gasketed area – ingress protected<br>o  Provides additional strength and rigidity<br>o  Can mount empty or populated enclosure | o  Equipment protection always maintained<br>o  Can install in high risk and high vibration areas<br>o  Flexibility can save time and money |
| High ingress protection ( cUL/UL type 4X, 6, 6P, 12 &13, IP66, IP67, IP68 | o  Watertight, in all directions when installed correctly<br>o  Mounting holes are outside the NEMA, IP rated area.<br>o  Can be used indoors and outdoors | o  Can be used anywhere - Indoor/Outdoor<br>o  Maintains perfect seal, won't leak or allow water/dust ingress |
| High impact resistance IK 07, IK08, IK 09, IK 10 | o  Equivalent to leading steel enclosures<br>o  Strength of steel at a fraction of the weight<br>o  Out performs fiberglass | o  Maintains shape after impact<br>o  Maintain aesthetics and NEMA, IP rating in areas with high risk of vandalism or abuse |
| Light weight material<br>Approximately half the weight of Steel and Fiberglass | o  Strength of steel at a fraction of the weight<br>o  Easier to transport and handle in workshop and on site<br>o  Easier to mount in high locations with weight limits<br>o  Lower transit costs | o  High survivability without dents<br>o  Reduced assembly and install cost, often a single-person + ladder instead of two people and expensive scissor lift<br>o  Can mount on walls, poles, etc. |
| Modular accessories<br>Fast and easy to mount and install | o  Depth-adjustable DIN rail set installs in six minutes, no drilling required,<br>o  can be assembled on bench and simply slid in | o  Saves time and money for OEM/Panel Builder<br>o  Assembly and testing faster and easier, saves money and rework |

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| **ARCA – IEC** | **NEMA Type: 1, 4, 4X, 12 and 13: IP66/67; IK10** | **EURONORD** | **NEMA Type: 1, 4, 4X, 12 and 13: IP66/67; IK07/08** |
| **ARCA - JIC up to 1210** | **NEMA Type: 4, 4X, 6, 6P, 12, 12K and 13:  IP66/67; IK09** | **MNX** | **NEMA Type: 1, 4, 4x and 6, and 6P:  IP66/67; IK08** |
| **ARCA - JIC 1412 & up** | **NEMA Type: 4, 4X, 12, 12K and 13: IP66/67; IK09** | **PICCOLO** | **NEMA Type: 1, 4, 4X, 6, 12, and 13: IP/67; IK08** |
| **CAB:** | **NEMA Type: 1, 4, 4X, 12, and 13: IP65; IK08** | **SOLID** | **NEMA Type: Type 1, 3, 3S, 4, 4X, 6, 6P and 12:  IP66;/67; IK08** |
| **CARDMASTER** | **NEMA Type: 1, 4, 4X, 12, and 13: IP66/67; IK07/08** | **TEMPO** | **NEMA Type: 1, 4, & 4X: IP 65: IK07/IK08** |

## Contacts

| **Questions:** | **Sales.USA@Fibox.com** |
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| **Orders:** | **Orders.USA@Fibox.com** |
| **Tel:** | **410.760.9696** |

## Short Links

| Fibox: | Fiboxusa.com |
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| Chemical Resistance: | https://bit.ly/4aEnr9y |
| Customization: | https://bit.ly/3Vj2X1z |
| Fibox Videos: | https://bit.ly/4dShHvw |
| RFQ: | https://bit.ly/4e1zvEz |