POLYLINE® Polycarbonate Enclosures

From Allied Moulded Products, Inc.

Experts in manufacturing nonmetallic enclosures for industrial applications
POLYLINE® AMP Series Features & Benefits

The AMP polycarbonate series was developed primarily for general purpose industrial applications as an alternative to steel enclosures. The design of this product group is similar to the ULTRALINE® series and includes a provision for adjustable HFP (hinged front panel) position. Additional POLYLINE® options include a clear cover, nonmetallic snap latches, and patented multi-mounting capabilities. Available sizes include 6" x 6" x 4" (152mm x 152mm x 102mm) up through 18" x 16" x 10" (457mm x 406mm x 254mm).
**POLYLINE® Physical Properties**

<table>
<thead>
<tr>
<th>Enclosure Material Typical Properties</th>
<th>ASTM Test Method</th>
<th>Polycarbonate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact Strength (ft-lb/in²)</td>
<td>D 256</td>
<td>12</td>
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<tr>
<td>Flexural Strength (psi)</td>
<td>D 790</td>
<td>13,000</td>
</tr>
<tr>
<td>Tensile Strength (psi)</td>
<td>D 638</td>
<td>9,000</td>
</tr>
<tr>
<td>Compressive Strength (psi)</td>
<td>D 605</td>
<td>11,000</td>
</tr>
<tr>
<td>Water Absorption (%)</td>
<td>D 510</td>
<td>0.25</td>
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<tr>
<td>Specific Gravity</td>
<td>D 710</td>
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</tr>
<tr>
<td>Shrinkage in/in</td>
<td>D 255</td>
<td>0.007</td>
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<tr>
<td>Hardness (Barcol-Rockwell M-Shore A)</td>
<td>D 2503</td>
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</tr>
<tr>
<td>Elongation (%)</td>
<td>D 638</td>
<td>7.20</td>
</tr>
<tr>
<td>Dielectric Strength (kV/m)</td>
<td>D 740</td>
<td>752</td>
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<tr>
<td>Arc Resistance (sec)</td>
<td>D 495</td>
<td>117</td>
</tr>
<tr>
<td>Flammability</td>
<td>UL 94</td>
<td>V-0</td>
</tr>
<tr>
<td>Heat Deflection (°F at 254 psi)</td>
<td>D 548</td>
<td>265</td>
</tr>
<tr>
<td>Service Temperature (°F)</td>
<td>-21°F to 266°F</td>
<td></td>
</tr>
<tr>
<td>K Factor, Thermal Conductivity (BTU/hr/°F/ft²)</td>
<td>D1261E</td>
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<td>Thermal Expansion (10⁻⁶ in/in°F)</td>
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</tr>
<tr>
<td>UV Rating</td>
<td>UL 746C</td>
<td>F1</td>
</tr>
</tbody>
</table>

**Certificate of Conformance to Industry Standards**

POLYLINE® industrial enclosures manufactured by Allied Moulded Products, Inc. and bearing the UL® and CSA labels have been tested and certified to the following standards:

- UL 50 Enclosures For Electrical Equipment
- UL 50E Enclosures For Electrical Equipment, Environmental Considerations
- UL 508A Industrial Control Panels
- UL 746C Polymeric Materials – Use in Electrical Equipment Evaluations
- CSA-C22 No. 14 Industrial Control Equipment
- CAN/CSA-C22 No. 94 Special Purpose Enclosures

**General Enclosure Specifying Guidelines**

- **Box Size**
  - 304 SS
  - 316 SS
  - Painted CS
  - Polycarbonate
  - Gelcoat FRP
  - Custom PVC
- **Panel Boss Centers**
  - 304 SS
  - 316 SS
  - Painted CS
  - Polycarbonate
  - Gelcoat Fiberglass
  - Custom PVC

**Corrosion Resistance Guidelines**

- Note: Those categories containing rating numbers are based on 1 as low and 5 as high.

**Recommended Solvents**

- 304 SS
- 316 SS
- Compression Fiberglass
- Gelcoat Fiberglass
- Polycarbonate
- Painted Carbon Steel
- Compression Fiberglass
- Gelcoat Fiberglass
- Polycarbonate
- Painted Carbon Steel

**Recommended Alkalis**

- Ammonium Chloride
- Ammonium Nitrate
- Calcium Chloride
- Magnesium Hydroxide
- Sodium Hypochlorite

**Recommended Mild Acids**

- Aluminum Chloride
- Calcium Chloride
- Potassium Nitrate
- Sea Water
- Sodium Nitrate
- Zinc Chloride

Note: This chart is only intended to be used as a general guideline for applying typical metal and nonmetal enclosures in chemical environments. Allied Moulded Products, Inc. recommends specific material compatibility tests for the most accurate application of enclosures. Please contact Allied Moulded customer service for specific requirements.
**Product Information**

**Application**
- Designed to insulate and protect controls and components in both indoor and outdoor applications often found in industrial control panels, pump controls/waste water treatment, irrigation/water control, solar/wind, and chemical plants
- Light weight, impact resistant and good corrosion resistance for many industrial enclosure applications and a great alternative to metallic enclosures
- Protects from dirt, dust, and water

**Standards**
- UL 50 and UL 50E Types 1, 2, 3R, 4, 4X, (6P for sizes 6" x 6" up through 14" x 12"), 12 and 13
- CSA C22.2 No. 94 Types 1, 2, 3R, 4, 4X, (6P for sizes 6" x 6" up through 14" x 12"), 12 and 13
- Complies with:
  - NEMA Types 1, 2, 3R, 4, 4X, (6P for sizes 6" x 6" up through 14" x 12"), 12 and 13
  - IEC 60529 Type IP68 submersible up to 24 hours at a depth of 6 feet (1.8 meters)
- RoHS directive

**Construction**
- Injection molded polycarbonate thermoplastic – opaque cover, enclosure base, feet and flanges
- Enclosure base, feet, and flanges – Light gray color (RAL 7035)
  - Note: flanged models are pre-assembled, foot models mounting hardware supplied in a bag
- Stainless steel captive cover screws and foot/flare mounting hardware
- Cover seal – Formed-In-Place (FIP) polyurethane gasket system
- #10-32 threaded brass inserts are installed for optional back panel mounting

**Accessories**
- Optional back panels (white painted steel and aluminum) and hinged front panels (aluminum)
- Optional mounting hardware based on model number – foot or flange mount
- Additional molded-in mounting bosses available for directly mounting DIN rails

**Table of Contents**
- [Screw Cover - Solid / Opaque](#)
- [AMP Series - POLYLINE® JIC Size Junction Boxes: Lift-Off Screw Cover – Solid/Opaque](#)
- [Product Information](#)
- [Application](#)
- [Construction](#)
- [Accessories](#)

---

**AMP Series - POLYLINE® JIC Size Junction Boxes: Lift-Off Screw Cover – Solid/Opaque**

**Application**
- Designed to insulate and protect controls and components in both indoor and outdoor applications often found in industrial control panels, pump controls/waste water treatment, irrigation/water control, solar/wind, and chemical plants
- Light weight, impact resistant and good corrosion resistance for many industrial enclosure applications and a great alternative to metallic enclosures
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- [AMP Series - POLYLINE® JIC Size Junction Boxes: Lift-Off Screw Cover – Solid/Opaque](#)
- [Product Information](#)
- [Application](#)
- [Construction](#)
- [Accessories](#)
AMP Series - POLYLINE®
JIC Size Junction Boxes:

Screw Cover - Clear Polycarbonate

**Product Information**

**Application**
- Designed to insulate and protect controls and components in both indoor and outdoor applications often found in industrial control panels, pump controls/ waste water treatment, irrigation/water control, solar/wind, and chemical plants
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- Protects from dirt, dust, and water

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- Conforms with:
  - NEMA Types 1, 2, 3, 3R, 4, 4X, (6P for sizes 6" x 6" up through 14" x 12")
  - IEC 60529 Type IP68 submersible up to 24 hours at a depth of 6 feet (1.8 meters)
  - Formed-In-Place (FIP) polyurethane gasket system
  - #10-32 threaded brass inserts are installed for optional back panel mounting

**Construction**
- Injection molded polycarbonate thermoplastic - clear cover, enclosure base, feet and flanges
- Enclosure base, feet, and flanges – Light gray color (RAL 7035)
- Stainless steel captive cover screws and foot/flare mounting hardware
- Cover seal – Formed-In-Place (FIP) polyurethane gasket system

**Accessories**
- Optional back panels (white painted steel and aluminum) and hinged front panels (aluminum)
- Optional mounting hardware based on model number – foot or flare mount
- Additional molded-in mounting bosses available for directly mounting DIN rails

**Enclosure Base, Feet, and Flanges – Light weight, impact resistant and good corrosion resistance for many industrial enclosure applications and a great alternative to metallic enclosures**

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**Standards**
- Conforms with:
  - NEMA Types 1, 2, 3, 3R, 4, 4X, (6P for sizes 6" x 6" up through 14" x 12")
  - IEC 60529 Type IP68 submersible up to 24 hours at a depth of 6 feet (1.8 meters)
  - Formed-In-Place (FIP) polyurethane gasket system

**Add “F” to the part number for factory installed flanges (ex. AMP664CCF)**

- Enclosure base part numbers come standard with 4 separately bagged feet (ex. AMP664CC)
- All sizes 6" x 6" x 4" up through 14" x 12" x 6" are rated 6P (IP68)
- *Nom. Wall Thickness .14 (4mm); sizes 14" through 19.13 (55mm)

**Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Box Size</th>
<th>Usable Depth</th>
<th>Panel Boss Centers</th>
<th>Back Panel Size</th>
<th>Flange Mount Centers</th>
<th>Foot Mount Centers</th>
<th>Cover Size</th>
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<td>980cc</td>
<td>960cc</td>
<td>940cc</td>
<td>M</td>
</tr>
</tbody>
</table>

**View an image here**

- View page 1224 to 792

**Order Today!**
- Phone: 1-800-722-2679
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**Hinged Screw Cover - Solid / Opaque**

**AMP Series - POLYLINE® JIC Size Junction Boxes:**

**Hinged Screw Cover – Solid/Opaque**

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**PRODUCT INFORMATION**

**Application**
- Designed to insulate and protect controls and components in both indoor and outdoor applications often found in industrial control panels, pump controls/waste water treatment, irrigation/water control, solar/wind, and chemical plants
- Light weight, impact resistant and good corrosion resistance for many industrial enclosure applications and a great alternative to metallic enclosures
- Protects from dirt, dust, and water

**Standards**
- UL 50 and UL 50E Types 1, 2, 3, 3R, 4, 4X, CSA C22.2 No. 94 Types 1, 2, 3, 3R, 4, 4X

**Construction**
- Injection molded polycarbonate thermoplastic – opaque cover, enclosure base, feet and flanges
- Opaque cover, base, feet, and flanges – Light gray color (RAL 7035)
- Note: flanged models are pre-assembled, foot models mounting hardware supplied in a bag
- Stainless steel captive cover screws, hinge pin and foot/flange mounting hardware
- Cover seal – Formed-In-Place (FIP) polyurethane gasket system
- #10-32 threaded brass inserts are installed for optional back panel mounting

**Accessories**
- Optional back panels (white painted steel and aluminum) and hinged front panels (aluminum)
- Optional mounting hardware based on model number – foot or flange mount
- Additional molded-in mounting bosses available for directly mounting DIN rails

---

**APPLICATION**

- Designed for use in Control Panels, Pump Stations, Industrial Applications, Solar/Wind Power, Chemical Plants

**CONSTRUCTION**

- Injection Molded Polycarbonate Thermoplastic
- Opaque Cover, Enclosure Base, Feet, and Flanges
- Light Gray Color (RAL 7035)
- #10-32 Threaded Brass Inserts for Optional Back Panel Mounting

**SPECIFICATIONS**

- **Box Size:** Various Sizes Available
- **Back Panel Size:** Various Sizes Available
- **Flange Mount Centers:** Various Sizes Available
- **Foot Mount Centers:** Various Sizes Available
- **Cover Size:** Various Sizes Available

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**Hinged Screw Cover**

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**Data subject to change without notice**
**Hinged Screw Cover - Clear Polycarbonate**

**TABLE OF CONTENTS**

**AMP Series - POLYLINE® JIC Size Junction Boxes:**

**Hinged Screw Cover – Clear Polycarbonate**

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### PRODUCT INFORMATION

**Application**
- Designed to insulate and protect controls and components in both indoor and outdoor applications often found in industrial control panels, pump controls/waste water treatment, irrigation/water control, solar/wind, and chemical plants.
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- NEMA Types 1, 2, 3, 3R, 4, 4X, 12 and 13.
- IEC 60529 Type IP66.
- EN 50180.
- RoHS directive.

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- Enclosure base, feet, and flanges – Light gray color (RAL 7035).
- Stainless steel captive cover screws, hinge pin and foot/flange mounting hardware.
- Cover seal – Formed-In-Place (FIP) polyurethane gasket system.
- #10-32 threaded brass inserts are installed for optional back panel mounting.

**Accessories**
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- RoHS directive.

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Nonmetal Snap Latch - Solid / Opaque

TABLE OF CONTENTS

AMP Series - POLYLINE®
JIC Size Junction Boxes:
Nonmetal Snap Latch Hinged Cover
– Solid/Opaque

PRODUCT INFORMATION

Application
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Standards
- UL 50 and UL 50E Types 1, 2, 3, 3R, 4, 4X, RoHS directive
- CSA C22.2 No. 94 Types 1, 2, 3, 3R, 4, 4X, 12 and 13

Construction
- Injection molded polycarbonate thermoplastic – opaque cover, enclosure base, snap latches, feet and flanges
- Opaque cover, base, padlockable snap latches, feet, and flanges – Light gray color (RAL 7035)
- Designed to insulate and protect controls, solar/wind, and chemical plants
- Stainless steel, hinge pin and foot/flare mounting hardware
- Cover seal – Formed-In-Place (FIP) polyurethane gasket system

Accessories
- Optional back panels (white painted steel and aluminum) and hinged front panels (aluminum)
- Optional mounting hardware based on model number – foot or flange mount
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Nonmetal Snap Latch

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All dimensions are in inches unless otherwise noted

“F” dimensions with multiple numbers indicate slotted holes

Enclosure base part numbers come standard with 4 separately bagged feet (ex. AMP664NL)
Add “F” to the part number for factory installed flanges (ex. AMP664NL/F)

Add "F" to the part number for factory installed flanges (ex. AMP664NLF)
Enclosure base part numbers come standard with 4 separately bagged feet (ex. AMP664NL)
“I” dimensions with multiple numbers indicate slotted holes

Part No. Box Size Usable
AMP1860NLF
AMP1648NLF
15.98 13.98 8.00 8.27 14.25 12.25 14.75 12.88 P164
AMP1426NLF
13.85 12.07 6.13 6.06 12.25 10.25 12.75 10.88 PL142
AMP1206NLF
11.93 10.15 6.08 6.06 10.25 8.25 10.75 8.88 PL120
AMP1204NLF
11.93 10.15 6.08 6.06 10.25 8.25 10.75 8.88 PL120
AMP1086NLF
9.90 8.12 5.94 6.06 8.25 6.25 8.75 6.88 PL108
AMP1084NLF
9.93 8.15 6.08 6.06 8.25 6.25 8.75 6.88 PL108
AMP864NLF
6.03 6.26 4.08 4.06 4.25 4.25 4.81 4.81 PL66
AMP884NLF
7.94 15.68 17.68 17.10 19.28
19.91
15.68
17.68
17.10
19.28

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Nonmetal Snap Latch
AMP Series - POLYLINE®
JIC Size Junction Boxes:

Nonmetal Snap Latch Hinged Cover – Clear Polycarbonate

Nonmetal Snap Latch - Clear Polycarbonate

TABLE OF CONTENTS

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Order Today! Phone: 1-800-722-2679 Fax: 1-800-237-7269 Email: sales@alliedmoulded.com

www.alliedmoulded.com Nonmetal Snap Latch

Add “F” to the part number for factory installed flanges (ex. AMP664CCNLF)

*Nom. Wall Thickness: .14 (4mm); sizes 14"through18" .19 (5mm)

Nonmetal Snap Latch Order Today!
AMP Series - POLYLINE®
JIC Size Junction Boxes:

Metal Snap Latch Hinged Cover
– Solid/Opaque

PRODUCT INFORMATION

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Accessories
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- Additional molded-in mounting bosses available for directly mounting DIN rails

Specifications
- Part No. Box Size Latch Locations
  - AMP884LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP664LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP864LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP1084LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP1082LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP664LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP884LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
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  - AMP664LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP1082LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP884LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm
  - AMP1082LF 152mm 273mm 65mm 154mm 223mm 119mm 254mm 305mm 227mm 356mm

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AMP Series - POLYLINE®
JIC Size Junction Boxes:
Metal Snap Latch Hinged Cover
– Clear Polycarbonate

PRODUCT INFORMATION

Application
- Designed to insulate and protect controls and components in both indoor and outdoor applications often found in industrial control panels, pump controls/waste water treatment, irrigation/water control, solar/ wind, and chemical plants
- Light weight, impact resistant and good corrosion resistance for many industrial enclosure applications and a great alternative to metallic enclosures
- Protects from dirt, dust, and water

Standards
- UL 50 and UL 50E Types 1, 2, 3, 3R, 4, 4X
- CSA C22.2 No. 94 Types 1, 2, 3, 3R, 4, 4X
- RoHS directive

Construction
- Injection molded polycarbonate thermoplastic – cover, enclosure base, feet and flanges
- Enclosure base, feet, and flanges – Light gray color (RAL 7035)
  Note: flanged models are pre-assembled, foot or flange mount
- Stainless steel padlockable snap latches, hinge pin and foot/flare mounting hardware
- Cover seal – Formed-In-Place (FIP) polyurethane gasket system
- #10-32 threaded brass inserts are installed for optional back panel mounting

Accessories
- Optional back panels (white painted steel and aluminum) and hinged front panels (aluminum)
- Optional mounting hardware based on model number – foot or flange mount
- Additional molded-in mounting bosses available for directly mounting DIN rails

Data subject to change without notice

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www.alliedmoulded.com Metal Snap Latch

Add “F” to the part number for factory installed flanges (ex. AMP664CCLF)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Box Size</th>
<th>Usable Height</th>
<th>Panel Boss Centers</th>
<th>Back Panel Size</th>
<th>Flange Mount Centers</th>
<th>Foot Mount Centers</th>
<th>Cover Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>H</td>
</tr>
<tr>
<td>AMP884CL</td>
<td>18 x 16 x 10</td>
<td>D=12.5 (318mm)</td>
<td>12.00</td>
<td>19.63, 19.51</td>
<td>13.72</td>
<td>19.91</td>
<td>15.68</td>
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<tr>
<td>AMP1860CCL</td>
<td>18 x 16 x 10</td>
<td>D=12.5 (318mm)</td>
<td>12.00</td>
<td>17.75</td>
<td>11.47</td>
<td>17.91</td>
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<tr>
<td>AMP1648CCL</td>
<td>16 x 14 x 8</td>
<td>D=10.5 (267mm)</td>
<td>8.00</td>
<td>12.75</td>
<td>8.82</td>
<td>12.70</td>
<td>8.00</td>
</tr>
<tr>
<td>AMP1426CCL</td>
<td>14 x 12 x 6</td>
<td>D=8.00 (203mm)</td>
<td>6.00</td>
<td>12.75</td>
<td>8.82</td>
<td>12.70</td>
<td>8.00</td>
</tr>
<tr>
<td>AMP1206CCL</td>
<td>12 x 10 x 4</td>
<td>D=6.00 (267mm)</td>
<td>4.00</td>
<td>6.88, 6.75</td>
<td>4.91</td>
<td>6.72</td>
<td>4.00</td>
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<tr>
<td>AMP1204CCL</td>
<td>12 x 10 x 4</td>
<td>D=6.00 (267mm)</td>
<td>4.00</td>
<td>6.88, 6.75</td>
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<tr>
<td>AMP1086CCL</td>
<td>10 x 8 x 4</td>
<td>D=4.00 (203mm)</td>
<td>2.00</td>
<td>4.88, 4.75</td>
<td>3.91</td>
<td>4.47</td>
<td>2.00</td>
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<tr>
<td>AMP1084CCL</td>
<td>10 x 8 x 4</td>
<td>D=4.00 (203mm)</td>
<td>2.00</td>
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<td>4.47</td>
<td>2.00</td>
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<tr>
<td>AMP1082CCL</td>
<td>10 x 8 x 4</td>
<td>D=4.00 (203mm)</td>
<td>2.00</td>
<td>4.88, 4.75</td>
<td>3.91</td>
<td>4.47</td>
<td>2.00</td>
</tr>
</tbody>
</table>

All dimensions are in inches unless otherwise noted
"F" dimensions with multiple numbers indicate slotted holes

Enclosure base part numbers come standard with 4 separately bagged feet (ex. AMP664CCL)

Add "I" to the part number for factory installed flanges (ex. AMP644CCL)

Note: flanged models are pre-assembled, foot or flange mount

Foot Mount

Centers Cover Size

Panel Boss Centers

Back Panel Size

Flange Mount Centers

Foot Mount Centers

Cover Size

Data subject to change without notice
POLYLINE® Series Optional Back Panels:
“PL” Painted White Carbon Steel
or “PLA” Aluminum

POLYLINE® Series Optional Adjustable Hinged Front Panels Installed:

POLYLINE® Series Optional Back Panels:
“PL” Painted White Carbon Steel
or “PLA” Aluminum

POLYLINE® Series Optional Adjustable Hinged Front Panels:
“HFPP” Aluminum Panel System

**Optional Accessories**

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All dimensions are in inches unless otherwise noted.

**POLYLINE® Series Optional Back Panels:**

<table>
<thead>
<tr>
<th>STEEL (P/N)</th>
<th>ALUM (P/N)</th>
<th>PVC (P/N)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
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<td>PLA08</td>
<td>PLPVC08</td>
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<td>PLPVC108</td>
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**POLYLINE® Series Optional Adjustable Hinged Front Panels:**

**“HFPP” Aluminum Panel Systems**

<table>
<thead>
<tr>
<th>HFPP K21 (P/N)</th>
<th>Enc. Base (P/N)</th>
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<th>C</th>
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<td>HFPP08</td>
<td>AMP084</td>
<td>6.44</td>
<td>6.67</td>
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**All dimensions are in inches unless otherwise noted.**
Allied Moulded Products, Inc. manufactures a complete line of corrosion and UV resistant NEMA Type 4X nonmetallic enclosures for indoor or outdoor industrial applications. Allied Moulded enclosures are manufactured of engineering grades of thermoset and thermoplastics and offer all the advantages of nonmetallic materials including: UL® (listed), RoHS compliance, increased strength, reduced weight, corrosion resistance, non-conductivity, UV resistance and ease of installation.

**Allied Moulded Brand Names: ULTRALINE®, ULTRAGUARD®, POLYLINE®**

*Enclosure Families and Size Ranges (inches):*
- Small Junction Boxes: 7x4x3 through 9x4x3
- JIC Series: 6x6x4 through 20x16x10
- Control Series: 24x20x8 through 30x24x10
- Empire Series: 36x30x12 through 72x49x25

**Optional Accessories**
- Hole Plugs
- HMI Cover Kits
- Inspection Windows
- Pole Mount Kits
- Back Panels
- Hinged Front Panels
- Keylock Kits
- NEMA 4X Vent Kit
- Print Pockets
- Exhaust Filter Kit
- Mounting Brackets & Latch Kits