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# Modlink Panel Interface Connectors

## Overview

Murrelektronik Modlink Panel Interface Connectors (PIC) allows you the ability to connect to controls such as a PLC or other control devices from outside a closed control cabinet without having to open the cabinet and potentially exposing live voltages. This can eliminate an unsafe environment or having to add additional arc flash protection requirements while working inside a control cabinet. The Modlink Panel Interface Connection system is a modular system that allows you to pick the frame, inserts and other options like the touch protection guard to create a custom data and power interface connection that meets your application needs.

## Features

- Available in transparent, metallic, or gray for different machine designs
- Large variety of inserts allowing many possible combinations
- Covers have an integrated spring which makes it easy to tell if it has been left open
- Locking mechanism
- Identification tag on each insert

## Agency Approvals

- UL Type Rating 1, 4, 4x, 12, 13
- IP65 protection outside
- IP20 inside with touch protection guard
- cULus, cURus
- CE



# Modlink Panel Interface Connectors

## Putting Modlink Panel Interface Connectors Together

### STEP 1

Select the insert(s) to fit your application needs



### STEP 2

Select the frame to fit one or two inserts

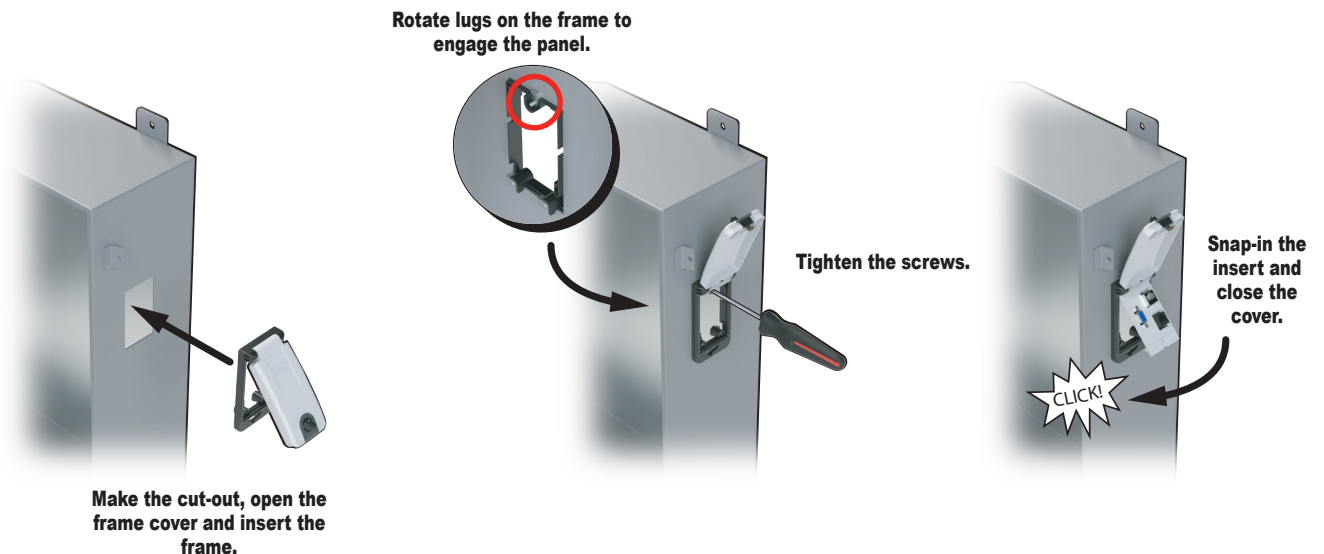


### STEP 3

Add touch protection cover (optional)



## Installing Modlink Panel Interface Connectors is Easy





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# Modlink Panel Interface Connectors

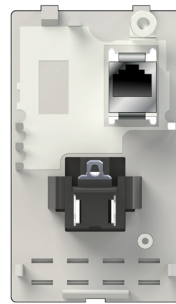
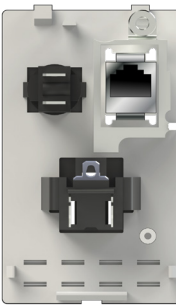
## Modlink Panel Interface Connectors - Inserts

| Modlink Panel Interface Connectors Inserts Selection Table |          |                                                                    |                |                                                                  |                |                  |                     |
|------------------------------------------------------------|----------|--------------------------------------------------------------------|----------------|------------------------------------------------------------------|----------------|------------------|---------------------|
| Inserts                                                    |          |                                                                    |                |                                                                  |                |                  |                     |
| Part Number                                                | Price    | Exterior Connections                                               | Exterior Photo | Interior Connections                                             | Interior Photo | Weight           | Drawing Link        |
| <a href="#">4000-68000-1040000</a>                         | \$06670: | (1) RJ45 Cat5e<br>(1) Female 15-pin D-sub HD15<br>(2) Female USB-A |                | (1) RJ45 Cat5e<br>(1) Male 15-pin D-sub HD15<br>(2) Female USB-A |                | 75g<br>[0.16 lb] | <a href="#">PDF</a> |
| <a href="#">4000-68000-1120000</a>                         | \$6671:  | (1) RJ45 Cat5e<br>(1) Female 9-pin D-sub<br>(1) RJ12               |                | (1) RJ45 Cat5e<br>(1) Female 9-pin D-sub<br>(1) RJ12             |                | 37g<br>[0.08 lb] | <a href="#">PDF</a> |
| <a href="#">4000-68000-1210000</a>                         | \$6672:  | (1) RJ45 Cat5e                                                     |                | (1) RJ45 Cat5e                                                   |                | 26g<br>[0.05 lb] | <a href="#">PDF</a> |
| <a href="#">4000-68000-1310000</a>                         | \$06673: | (1) RJ45 Cat5e<br>(1) Female USB-A                                 |                | (1) RJ45 Cat5e<br>(1) Female USB-A                               |                | 50g<br>[0.11 lb] | <a href="#">PDF</a> |

Continued on following page.

# Modlink Panel Interface Connectors

**Modlink Panel Interface Connectors Inserts Selection Table (continued)**

| <i>Inserts</i>                            |              |                                                                  |                                                                                     |                                          |                                                                                       |                  |                            |
|-------------------------------------------|--------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------|------------------|----------------------------|
| <i>Part Number</i>                        | <i>Price</i> | <i>Exterior Connections</i>                                      | <i>Exterior Photo</i>                                                               | <i>Interior Connections</i>              | <i>Interior Photo</i>                                                                 | <i>Weight</i>    | <i>Drawing Link</i>        |
| <a href="#"><u>4000-68000-3240000</u></a> | \$6674:      | Single 120VAC outlet                                             |    | -                                        |    | 50g<br>[0.11 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-4030000</u></a> | \$06675:     | Single 120VAC outlet<br>(1) RJ45 Cat5e<br>(1) Female USB-A       |   | (1) RJ45 Cat5e<br>(1) Female USB-A       |   | 46g<br>[0.10 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-4040000</u></a> | \$06676:     | Single 120VAC outlet<br>(1) RJ45 Cat5e                           |  | (1) RJ45 Cat5e                           |  | 36g<br>[0.07 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-4070000</u></a> | \$06677:     | Single 120VAC outlet<br>(1) RJ45 Cat5e<br>(1) 3A circuit breaker |  | (1) RJ45 Cat5e<br>(1) 3A circuit breaker |  | 47g<br>[0.10 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-8900000</u></a> | \$6678:      | Blank plate                                                      |  | Blank plate                              |  | 18g<br>[0.03 lb] | <a href="#"><u>PDF</u></a> |

# Modlink Panel Interface Connectors

Use this checklist to quickly identify the connections in each insert.

| Modlink Panel Interface Connectors - Inserts |      |        |     |      |      |                    |
|----------------------------------------------|------|--------|-----|------|------|--------------------|
| Part Number                                  | RJ45 | USB-AA | DB9 | HD15 | RJ12 | 3A Circuit Breaker |
| <b>No Power</b>                              |      |        |     |      |      |                    |
| <a href="#">4000-68000-1040000</a>           | ✓    | ✓✓     | —   | ✓    | —    | —                  |
| <a href="#">4000-68000-1120000</a>           | ✓    | —      | ✓   | —    | ✓    | —                  |
| <a href="#">4000-68000-1210000</a>           | ✓    | —      | ✓*  | —    | —    | —                  |
| <a href="#">4000-68000-1310000</a>           | ✓    | ✓      | —   | —    | —    | —                  |
| <b>115VAC Simplex Outlet (Single)</b>        |      |        |     |      |      |                    |
| <a href="#">4000-68000-3240000</a>           | —    | —      | —   | —    | —    | —                  |
| <a href="#">4000-68000-4030000</a>           | ✓    | ✓      | —   | —    | —    | —                  |
| <a href="#">4000-68000-4040000</a>           | ✓    | —      | —   | —    | —    | —                  |
| <a href="#">4000-68000-4070000</a>           | ✓    | —      | —   | —    | —    | ✓                  |
| <b>Blank Plate</b>                           |      |        |     |      |      |                    |
| <a href="#">4000-68000-8900000</a>           | —    | —      | —   | —    | —    | —                  |

\* Note: This is a blind cover for a DB9 connector.



[4000-68000-1040000](#)



[4000-68000-1120000](#)



[4000-68000-1210000](#)



[4000-68000-1310000](#)



[4000-68000-4040000](#)



[4000-68000-4070000](#)



[4000-68000-8900000](#)

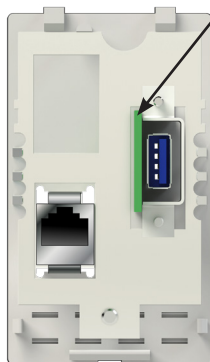


[4000-68000-3240000](#)

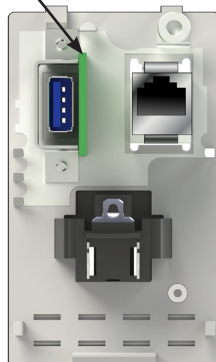


[4000-68000-4030000](#)

USB  
Cable Tie Strain Relief  
(cable tie included)



[4000-68000-1310000](#)

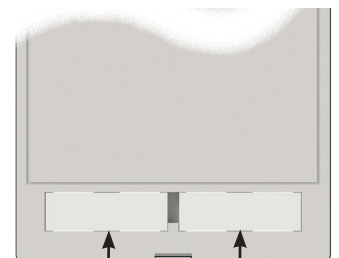


[4000-68000-4030000](#)



[4000-68000-1210000](#)

Strain Relief



Identification Tags  
(2) 6 x 19mm [1/4 x 3/4in]  
(included on each insert)

# Modlink Panel Interface Connectors

## Modlink Panel Interface Connectors - Frames



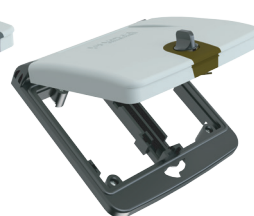
Transparent



Metallic



Gray



### Modlink Panel Interface Connectors Frames Selection Table

| Single Frames                      |         |             |                                                                                     |                                                        |                            |           |                |                     |
|------------------------------------|---------|-------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|-----------|----------------|---------------------|
| Part Number                        | Price   | Cover Color | Cover Front View                                                                    | Cover Closure                                          | Wall Thickness             | Requires  | Weight         | Drawing Link        |
| <a href="#">4000-68512-0000001</a> | \$667a: | Transparent |    | 3mm double bit closure including plug-in rotation knob | 0.04 to 0.20 in [1 to 5mm] | 1 Insert  | 85g [0.18 lb]  | <a href="#">PDF</a> |
| <a href="#">4000-68513-0000001</a> | \$667b: | Metallic    |   |                                                        |                            |           | 87g [0.19 lb]  | <a href="#">PDF</a> |
| <a href="#">4000-68514-0000001</a> | \$667c: | Gray        |  |                                                        |                            |           | 96g [0.21 lb]  | <a href="#">PDF</a> |
| Double Frames                      |         |             |                                                                                     |                                                        |                            |           |                |                     |
| <a href="#">4000-68522-0000001</a> | \$667d: | Transparent |  | 3mm double bit closure including plug-in rotation knob | 0.04 to 0.20 in [1 to 5mm] | 2 Inserts | 148g [0.32 lb] | <a href="#">PDF</a> |
| <a href="#">4000-68523-0000001</a> | \$667f: | Metallic    |  |                                                        |                            |           | 152g [0.33 lb] | <a href="#">PDF</a> |
| <a href="#">4000-68524-0000001</a> | \$667g: | Gray        |  |                                                        |                            |           | 169g [0.37 lb] | <a href="#">PDF</a> |



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# Modlink Panel Interface Connectors

## Touch Protection Covers

### Overview

The touch protection cover mounts on the back of a frame (single or double) to increase safety inside the cabinet.

The hardware needed to secure the cover to the frame is included.

| Modlink Panel Interface Connectors Touch Protection Covers Selection Table |         |                                                                                                                        |                  |                     |
|----------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|
| Part Number                                                                | Price   | Description                                                                                                            | Weight           | Drawing Link        |
| <a href="#">4000-68000-9140000</a>                                         | \$6679: | Murrelektronik Modlink touch protection cover, ABS plastic, black.<br>For use with Modlink series double frames sizes. | 91g<br>[0.20 lb] | <a href="#">PDF</a> |
| <a href="#">4000-68000-9180000</a>                                         | \$667e: | Murrelektronik Modlink touch protection cover, ABS plastic, black.<br>For use with Modlink series single frames sizes. | 36g<br>[0.07 lb] | <a href="#">PDF</a> |



[4000-68000-9140000](#)



[4000-68000-9180000](#)



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# Modlink Panel Interface Connectors

## Modlink Panel Interface Connectors - Specifications

| Modlink Panel Interface Connectors Specifications |                                                                                                                                                               |                                                                                                                                      |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Receptacle Electrical Specifications              |                                                                                                                                                               |                                                                                                                                      |
| Voltage Rating                                    |                                                                                                                                                               | 125 VAC                                                                                                                              |
| Current Rating                                    |                                                                                                                                                               | Receptacle 15A, Resettable Circuit Breaker 3A                                                                                        |
| SCCR                                              |                                                                                                                                                               | Receptacle 10kA, Resettable Circuit Breaker 0.2 kA                                                                                   |
| Termination Type<br>* see table below             | <a href="#">4000-68000-3240000</a>                                                                                                                            | Screw connections                                                                                                                    |
|                                                   | <a href="#">4000-68000-4030000</a> , <a href="#">4000-68000-4040000</a>                                                                                       | 4.8 mm disconnect terminal or can be soldered                                                                                        |
|                                                   | <a href="#">4000-68000-4070000</a>                                                                                                                            | Receptacle 4.8 mm disconnect terminal or can be soldered<br>Resettable Circuit Breaker 6.3 mm disconnect terminal or can be soldered |
| Technical Specifications                          |                                                                                                                                                               |                                                                                                                                      |
| Agency Approvals                                  |                                                                                                                                                               | cULus, cURus, CE                                                                                                                     |
| Degree of Protection                              |                                                                                                                                                               | UL Type Rating 1, 4, 4x, 12, 13 IP65 outside<br>With touch protection cover IP20 inside                                              |
| Operating Temperature                             | Frames                                                                                                                                                        | -22 to 158°F [-30 to 70°C]                                                                                                           |
|                                                   | Inserts ( <a href="#">4000-68000-1040000</a> , <a href="#">4000-68000-1210000</a> , <a href="#">4000-68000-8900000</a> )                                      | -4 to 140°F [-20 to 60°C]                                                                                                            |
|                                                   | Inserts ( <a href="#">4000-68000-1310000</a> , <a href="#">4000-68000-3240000</a> , <a href="#">4000-68000-4030000</a> , <a href="#">4000-68000-4070000</a> ) | 41 to 104°F [5 to 40°C]                                                                                                              |
|                                                   | Touch Protection Cover                                                                                                                                        | 32 to 122°F [0 to 50°C]                                                                                                              |
| Shock According to EN 60068-2-6                   |                                                                                                                                                               | 10 to 500 Hz, 2g                                                                                                                     |
| Vibration According to EN 60068-2-27              |                                                                                                                                                               | 1/2 sin 15g, 11ms                                                                                                                    |
| Suggested Screw Torque                            | Secure Frame to Cabinet                                                                                                                                       | 5.3 +/- 0.9 lb•in [0.6 +/- 0.1 N•m]                                                                                                  |
|                                                   | Secure Insert to Frame                                                                                                                                        |                                                                                                                                      |
| Material and Color Specifications                 |                                                                                                                                                               |                                                                                                                                      |
| Frame                                             | Material                                                                                                                                                      | Polyamide (PA)                                                                                                                       |
| Frame                                             | Color                                                                                                                                                         | Black                                                                                                                                |
| Frame Cover Material                              | Transparent Models <a href="#">4000-68512-0000001</a> , <a href="#">4000-68522-0000001</a>                                                                    | Polycarbonate (PC)                                                                                                                   |
|                                                   | Metallic Models <a href="#">4000-68513-0000001</a> , <a href="#">4000-68523-0000001</a>                                                                       | Acrylonitrile butadiene styrene (ABS)                                                                                                |
|                                                   | Gray Models <a href="#">4000-68514-0000001</a> , <a href="#">4000-68524-0000001</a>                                                                           | Polybutylene terephthalate (PBT)                                                                                                     |
| Frame Separator                                   | Material                                                                                                                                                      | Polyamide (PA)                                                                                                                       |
|                                                   | Color                                                                                                                                                         | Black                                                                                                                                |
| Plug-in Rotation Knob                             | Material                                                                                                                                                      | Polybutylene terephthalate (PBT)                                                                                                     |
|                                                   | Color                                                                                                                                                         | Black                                                                                                                                |
| Insert                                            |                                                                                                                                                               | Polybutylene terephthalate (PBT)                                                                                                     |
| Touch Protection Cover                            | Material                                                                                                                                                      | Polycarbonate (PC) and Acrylonitrile butadiene styrene (ABS)                                                                         |
|                                                   | Color                                                                                                                                                         | Black                                                                                                                                |

| Recommended Disconnect Terminals |                             |           |         |               |
|----------------------------------|-----------------------------|-----------|---------|---------------|
| Item                             | Disconnect Terminal         | Wire Size |         | Terminal Size |
|                                  |                             | AWG       | mm²     |               |
| Receptacle                       | <a href="#">V70FH004003</a> | 20-18     | 0.5-1   | 4.8 x 0.5     |
|                                  | <a href="#">V70FH004004</a> |           |         | 4.8 x 0.8     |
|                                  | <a href="#">V70FH004008</a> | 16-14     | 1.5-2.5 | 4.8 x 0.5     |
|                                  | <a href="#">V70FH004009</a> |           |         | 4.8 x 0.8     |
| Resettable Breaker               | <a href="#">V70FH004005</a> | 20-18     | 0.5-1   | 6.3 x 0.9     |
|                                  | <a href="#">V70FH004010</a> | 16-14     | 1.5-2.5 |               |
|                                  | <a href="#">V70FH004011</a> | 12-10     | 4-6     |               |