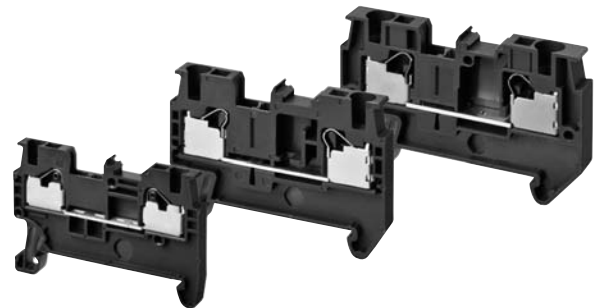



DIN Track Push-in Terminal Blocks XW5T

Push-in Plus Terminal Blocks to Downsize Control Panels and Save Work

- Push-in Plus terminal blocks are more compact than traditional screw terminal blocks.
No loosening means maintenance-free application.
- Slim models available down to a width of 3.5 mm to help downsize control panels.
- Light insertion force and strong holding strength to achieve both less wiring work and high reliability.
- 'Hands-free' structure that holds an inserted screwdriver to achieve better workability when wiring stranded wires without crimp terminals.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.




 Refer to *Safety Precautions* on page 17.

Model Number Legend

Feed Through Terminal Blocks

XW5T - P
(1) (2) (3)(4)

- (1) Maximum Applicable Stranded Wire**
- 1.5: 1.5mm²
 - 2.5: 2.5mm²
 - 4.0: 4.0mm²

- (2) Wiring**
- 1.1: 1:1 
 - 1.2: 1:2 
 - 2.2: 2:2 

Grounding Terminal Blocks

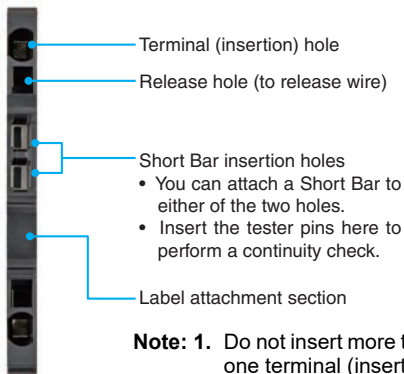
XW5G - P
(1) (2) (3)

- (3) Number of Tiers**
- 1: 1 tier
 - 2: 2 tiers

- (4) Color**
- Blank: Dark gray
 - BL: Blue

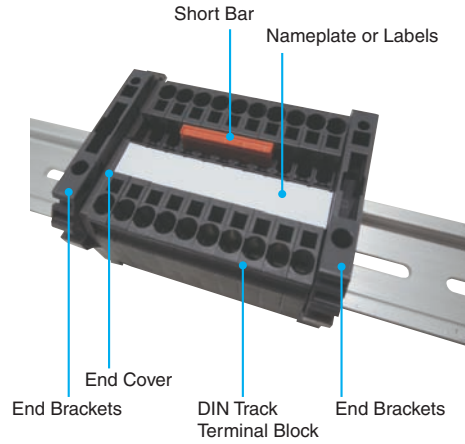
Part Names and Configuration

DIN Track Terminal Block (Top Surface)



- Note:**
1. Do not insert more than one wire into one terminal (insertion) hole.
 2. Do not insert more than one Short Bar into one Short Bar insertion hole.

Basic Configuration



| Name | Description |
|---------------------------|---|
| DIN Track Terminal Blocks | Both Feed Through and Grounding Terminal Blocks are available. |
| End Cover | This part is required to prevent electric shock. Attach one End Cover to the exposed metal surface of the last Terminal Block or to any Terminal Block that is next to a different shape of Terminal Block. |
| End Brackets | End Brackets must be attached to both ends to hold the Terminal Block in place. |
| Nameplate or Labels | This part is available as an accessory. Select the most suitable one for your needs. You can also use commercially available nameplates that are 9.5 mm wide and 0.5 mm thick. * |
| Short Bar | This part is available as an accessory. Select one as required. |

* Two-tier Terminal Blocks with a width of 3.5 mm are excluded.

Ordering Information

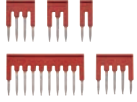
| Classification | Product Type | Applicable wire sizes * (mm ²) | Number of levels | Number of cramp position per level | Color | Weight (gram) | Model |
|------------------------------|---------------------------|--|------------------|------------------------------------|--------------|---------------|-------------------|
| Feed Through Terminal blocks | Standard terminals | 0.08 to 1.5 | 1 | 2 | Dark grey | 3.3 | XW5T-P1.5-1.1-1 |
| | | 0.14 to 2.5 | 1 | 2 | | 6.3 | XW5T-P2.5-1.1-1 |
| | | 0.2 to 4.0 | 1 | 2 | | 8.4 | XW5T-P4.0-1.1-1 |
| | | 0.08 to 1.5 | 1 | 2 | Blue | 3.3 | XW5T-P1.5-1.1-1BL |
| | | 0.14 to 2.5 | 1 | 2 | | 6.3 | XW5T-P2.5-1.1-1BL |
| | | 0.2 to 4.0 | 1 | 2 | | 8.4 | XW5T-P4.0-1.1-1BL |
| | Multi tiers terminal | 0.08 to 1.5 | 2 | 2 | Dark grey | 6.5 | XW5T-P1.5-1.1-2 |
| | | 0.14 to 2.5 | 2 | 2 | | 12.5 | XW5T-P2.5-1.1-2 |
| | | 0.2 to 4.0 | 2 | 2 | | 16.5 | XW5T-P4.0-1.1-2 |
| | | 0.08 to 1.5 | 2 | 2 | Blue | 6.5 | XW5T-P1.5-1.1-2BL |
| | | 0.14 to 2.5 | 2 | 2 | | 12.5 | XW5T-P2.5-1.1-2BL |
| | | 0.2 to 4.0 | 2 | 2 | | 16.5 | XW5T-P4.0-1.1-2BL |
| | Multi conductor terminals | 0.08 to 1.5 | 1 | 3 | Dark grey | 4.1 | XW5T-P1.5-1.2-1 |
| | | | | | | 8.2 | XW5T-P2.5-1.2-1 |
| | | | | | | 10.8 | XW5T-P4.0-1.2-1 |
| | | 0.14 to 2.5 | 1 | 3 | Blue | 4.1 | XW5T-P1.5-1.2-1BL |
| | | | | | | 8.2 | XW5T-P2.5-1.2-1BL |
| | | | | | | 10.8 | XW5T-P4.0-1.2-1BL |
| | | 0.2 to 4.0 | 1 | 3 | Dark grey | 4.9 | XW5T-P1.5-2.2-1 |
| | | | | | | 10.4 | XW5T-P2.5-2.2-1 |
| | | | | | | 13.4 | XW5T-P4.0-2.2-1 |
| | | 0.08 to 1.5 | 1 | 4 | Blue | 4.9 | XW5T-P1.5-2.2-1BL |
| | | | | | | 10.4 | XW5T-P2.5-2.2-1BL |
| | | | | | | 13.4 | XW5T-P4.0-2.2-1BL |
| Grounding Terminal blocks | Standard terminals | 0.08 to 1.5 | 1 | 2 | Green/yellow | 4.7 | XW5G-P1.5-1.1-1 |
| | | 0.14 to 2.5 | 1 | 2 | | 9.9 | XW5G-P2.5-1.1-1 |
| | | 0.2 to 4.0 | 1 | 2 | | 11.8 | XW5G-P4.0-1.1-1 |
| | Multi tiers terminal | 0.08 to 1.5 | 2 | 2 | | 8.1 | XW5G-P1.5-1.1-2 |
| | | 0.14 to 2.5 | 2 | 2 | | 16.6 | XW5G-P2.5-1.1-2 |
| | | 0.2 to 4.0 | 2 | 2 | | 20.8 | XW5G-P4.0-1.1-2 |
| | Multi conductor terminals | 0.08 to 1.5 | 1 | 3 | | 5.5 | XW5G-P1.5-1.2-1 |
| | | 0.14 to 2.5 | 1 | 3 | | 11.6 | XW5G-P2.5-1.2-1 |
| | | 0.2 to 4.0 | 1 | 3 | | 14.1 | XW5G-P4.0-1.2-1 |
| | | 0.08 to 1.5 | 1 | 4 | | 6.3 | XW5G-P1.5-2.2-1 |
| | | 0.14 to 2.5 | 1 | 4 | | 13.8 | XW5G-P2.5-2.2-1 |
| | | 0.2 to 4.0 | 1 | 4 | | 16.7 | XW5G-P4.0-2.2-1 |

* For stranded wires.

Accessories

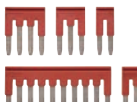
Short Bars

For XW5T-P1.5-□

| Appearance | No. of poles | Colors | Model* | Application |
|---|--------------|--------------------------------------|---------------|---|
|  | 2 | Red (RD) Blue (BL) Yellow (YL) | XW5S-P1.5-2□ | Used for cross-over wiring between Terminal Blocks. |
| | 3 | | XW5S-P1.5-3□ | |
| | 4 | | XW5S-P1.5-4□ | |
| | 5 | | XW5S-P1.5-5□ | |
| | 10 | | XW5S-P1.5-10□ | |

* Replace the box (□) in the model number with the code for the covering color. Specify the color: RD = red, BL = blue, YL = yellow

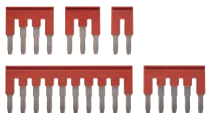
For XW5T-P2.5-□

| Appearance | No. of poles | Colors | Model* | Application |
|---|--------------|--------------------------------------|---------------|---|
|  | 2 | Red (RD) Blue (BL) Yellow (YL) | XW5S-P2.5-2□ | Used for cross-over wiring between Terminal Blocks. |
| | 3 | | XW5S-P2.5-3□ | |
| | 4 | | XW5S-P2.5-4□ | |
| | 5 | | XW5S-P2.5-5□ | |
| | 10 | | XW5S-P2.5-10□ | |

* Replace the box (□) in the model number with the code for the covering color. Specify the color: RD = red, BL = blue, YL = yellow

XW5T

For XW5T-P4.0-□

| Appearance | No. of poles | Colors | Model* | Application |
|---|--------------|--------------------------------------|---------------|---|
|  | 2 | Red (RD) Blue (BL) Yellow (YL) | XW5S-P4.0-2□ | Used for cross-over wiring between Terminal Blocks. |
| | 3 | | XW5S-P4.0-3□ | |
| | 4 | | XW5S-P4.0-4□ | |
| | 5 | | XW5S-P4.0-5□ | |
| | 10 | | XW5S-P4.0-10□ | |


* Replace the box (□) in the model number with the code for the covering color. Specify the color: RD = red, BL = blue, YL = yellow

Labels


| Applicable Terminal Blocks | Model | Manufacturer | Minimum order (box) (quantity per box) | Application |
|----------------------------|------------------------------|--------------|--|--|
| XW5□-P1.5-□ | MG-CPM-04 41392 (Top label) | Cembre | 2,000 (25 sheet / 80 pieces) | Used to identify wiring. (Material: PC resin, blank) |
| | MG-CPM-07 41692 (Side label) | | 2,000 (25 sheet / 80 pieces) | |
| XW5□-P2.5-□ | MG-CPM-04 41390N (Top label) | | 1,680 (35 sheet / 48 pieces) | |
| | MG-CPM-07 41691 (Side label) | | 1,680 (35 sheet / 48 pieces) | |
| XW5□-P4.0-□ | MG-CPM-04 41391 (Top label) | | 1,344 (28 sheet / 48 pieces) | |
| | MG-CPM-07 41691 (Side label) | | 1,680 (35 sheet / 48 pieces) | |

- Note:**
1. Different models are used for the top and side surfaces.
 2. There is no place to mount the Top-surface Labels on Two-tier Terminal Blocks with a width of 3.5 mm, so they cannot be used.
 3. If you use commercially available nameplates (9.5 mm width and 0.5 mm thickness), you can use a commercially available printer. Check with your Omron contact for information on applicable printers.
 4. Refer to page 20 for details on printing labels.


End Cover

| Appearance | Applicable Terminal Blocks | Model | Application |
|---|----------------------------|-----------------|--|
|  | XW5□-P1.5-1.1-1 | XW5E-P1.5-1.1-1 | This part is required to prevent electric shock. Always mount End Covers to the following locations when you use Terminal Blocks. (For details, refer to page 21.) <ul style="list-style-type: none"> • Exposed metal surface of the last Terminal Block • Any Terminal Block that is next to a different shape of Terminal Block |
| | XW5□-P1.5-1.1-2 | XW5E-P1.5-1.1-2 | |
| | XW5□-P1.5-1.2-1 | XW5E-P1.5-1.2-1 | |
| | XW5□-P1.5-2.2-1 | XW5E-P1.5-2.2-1 | |
| | XW5□-P2.5-1.1-1 | XW5E-P2.5-1.1-1 | |
| | XW5□-P2.5-1.1-2 | XW5E-P2.5-1.1-2 | |
| | XW5□-P2.5-1.2-1 | XW5E-P2.5-1.2-1 | |
| | XW5□-P2.5-2.2-1 | XW5E-P2.5-2.2-1 | |
| | XW5□-P4.0-1.1-1 | XW5E-P4.0-1.1-1 | |
| | XW5□-P4.0-1.1-2 | XW5E-P4.0-1.1-2 | |
| | XW5□-P4.0-1.2-1 | XW5E-P4.0-1.2-1 | |
| | XW5□-P4.0-2.2-1 | XW5E-P4.0-2.2-1 | |

End Brackets

| Appearance | Width (mm) | Model | Application |
|---|------------|----------|---|
|  | 6 | XW5Z-EP6 | End Brackets are installed on the ends of the Terminal Blocks to prevent them from moving on the DIN Track. |

Separator Plates




| Appearance | Width (mm) | Model | Application |
|---|------------|-----------|---|
|  | 12 | XW5Z-EP12 | This part is used to create insulation distance. Use Separator Plates according to the clearance and creeping distances required by the operating conditions of your equipment. |

Note: Refer to 6. Using the Accessories on page 20 for information on using the accessories.

Ratings and Performance

Ratings

Feed Through Terminal blocks Standard terminals

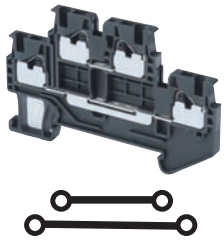
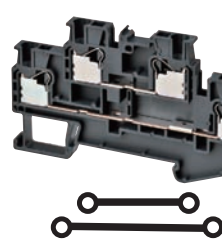
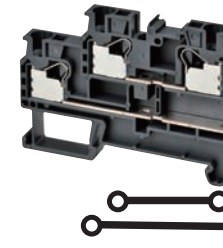
| Model | | XW5T-P1.5-1.1-1 (BL) | | | | XW5T-P2.5-1.1-1 (BL) | | | | XW5T-P4.0-1.1-1 (BL) | | | |
|--------------------------------|--|---|--------------------------------|------------|--------------|--|--|--|--|---|--|--|--|
| | | 1 tier, 1:1 | | | | 1 tier, 1:1 | | | | 1 tier, 1:1 | | | |
| Appearance and internal wiring | |  | | | |  | | | |  | | | |
| Applicable wire sizes*1 | Stranded wire | 0.08 mm ² to 1.5 mm ² | | | | 0.14 mm ² to 2.5 mm ² | | | | 0.2 mm ² to 4.0 mm ² | | | |
| | Solid wire | 0.14 mm ² to 1.5 mm ² | | | | 0.14 mm ² to 4.0 mm ² | | | | 0.2 mm ² to 6.0 mm ² | | | |
| | Stranded wire with ferrule with Plastic sleeve | 0.14 mm ² to 0.75 mm ² (1.5 mm ²) *2 | | | | 0.14 mm ² to 2.5 mm ² | | | | 0.25 mm ² to 4.0 mm ² | | | |
| Dimensions | | 3.5 × 45 × 30.5 | | | | 5.2 × 48.8 × 35.3 | | | | 6.2 × 56.1 × 35.3 | | | |
| Rated voltage | | 500 V | | | | 800 V | | | | | | | |
| Rated current *3 | | 17.5 A | | | | 24 A | | | | 32 A | | | |
| IEC rated voltage | | 500 V | | | | 800 V | | | | 800 V | | | |
| IEC rated current *3 | | 17.5 A/1.5 mm ² | | | | 24 A/2.5 mm ² | | | | 32 A/4.0 mm ² | | | |
| Usage Group (UG) | | B, C | | D | | B, C | | | | | | | |
| UL rated voltage | | 300 V | 51-150 V | 151-300 V | 301-600 V | 600 V | | | | | | | |
| UL rated current *3 | | 15 A/AWG14 (SOL) 10 A/AWG16 | 15 A/AWG14 (SOL) 10 A/AWG16 | 10 A/AWG16 | 5 A/AWG16-20 | 20 A/AWG12 (SOL), 15 A/AWG14 | | | | 30 A/AWG10 (SOL), 20 A/AWG12 | | | |
| Dielectric strength | | 1,890 VAC for 1 min (leakage current: 1 mA max.) | | | | 2,000 VAC for 1 min (leakage current: 1 mA max.) | | | | 2,000 VAC for 1 min (leakage current: 1 mA max.) | | | |
| End Cover | | XW5E-P1.5-1.1-1 | | | | XW5E-P2.5-1.1-1 | | | | XW5E-P4.0-1.1-1 | | | |
| Special tool | | XW4Z-00B | | | | XW4Z-00B | | | | XW4Z-00B | | | |
| Applicable nameplates | | MG-CPM-04 41392, MG-CPM-07 41692 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | | MG-CPM-04 41390N, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | | MG-CPM-04 41391, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | |
| Applicable Short Bars | | XW5S-P1.5-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | XW5S-P2.5-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | XW5S-P4.0-□ (□: Poles = 2, 3, 4, 5 or 10) | | | |

*1. For the recommended applicable wire ranges, refer to page 17 for solid and stranded wires, and to page 19 for ferrules.

*2. You can also use ferrules for 1.0 to 1.5 mm² wires if you use ferrules without insulation sleeve. Refer to page 19 for details.

*3. Do not apply more than the rated current to the terminal block.

Feed Through Terminal blocks Multi tiers terminal

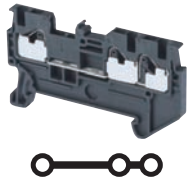
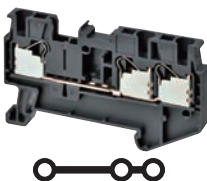
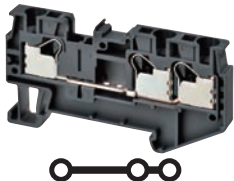
| Model | | XW5T-P1.5-1.1-2 (BL) | | | | XW5T-P2.5-1.1-2 (BL) | | | | XW5T-P4.0-1.1-2 (BL) | | | |
|--------------------------------|--|---|--------------------------------|--|--------------|--|--|---|--|---|--|---|--|
| Appearance and internal wiring | | 2 tiers, 1:1  | | | | 2 tiers, 1:1  | | | | 2 tiers, 1:1  | | | |
| | | Stranded wire | | 0.08 mm ² to 1.5 mm ² | | 0.14 mm ² to 2.5 mm ² | | 0.14 mm ² to 2.5 mm ² | | 0.2 mm ² to 4.0 mm ² | | 0.2 mm ² to 4.0 mm ² | |
| Applicable wire sizes*1 | | Solid wire | | 0.14 mm ² to 1.5 mm ² | | 0.14 mm ² to 4.0 mm ² | | 0.14 mm ² to 4.0 mm ² | | 0.2 mm ² to 6.0 mm ² | | 0.2 mm ² to 6.0 mm ² | |
| | | Stranded wire with ferrule with Plastic sleeve | | 0.14 mm ² to 0.75 mm ² (1.5 mm ²) *2 | | 0.14 mm ² to 2.5 mm ² | | 0.14 mm ² to 2.5 mm ² | | 0.25 mm ² to 4.0 mm ² | | 0.25 mm ² to 4.0 mm ² | |
| Dimensions | | 3.5 × 65.7 × 41.1 | | | | 5.2 × 78.8 × 45.9 | | | | 6.2 × 85 × 45.9 | | | |
| Rated voltage | | 500 V | | | | 600 V | | | | | | | |
| Rated current *3 | | 17.5 A | | | | 22 A | | | | 28 A | | | |
| IEC rated voltage | | 500 V | | | | | | | | | | | |
| IEC rated current *3 | | 17.5 A/1.5 mm ² | | | | 22 A/2.5 mm ² | | | | 28 A/4.0 mm ² | | | |
| Usage Group (UG) | | B, C | | D | | B, C | | | | | | | |
| UL rated voltage | | 300 V | 51-150 V | 151-300 V | 301-600 V | 600 V | | | | | | | |
| UL rated current *3 | | 15 A/AWG14 (SOL) 10 A/AWG16 | 15 A/AWG14 (SOL) 10 A/AWG16 | 10 A/AWG16 | 5 A/AWG16-20 | 20 A/AWG12 (SOL), 15 A/AWG14 | | | | 30 A/AWG10 (SOL), 20 A/AWG12 | | | |
| Dielectric strength | | 1,890 VAC for 1 min (leakage current: 1 mA max.) | | | | 2,000 VAC for 1 min (leakage current: 1 mA max.) | | | | | | | |
| End Cover | | XW5E-P1.5-1.1-2 | | | | XW5E-P2.5-1.1-2 | | | | XW5E-P4.0-1.1-2 | | | |
| Special tool | | XW4Z-00B | | | | | | | | | | | |
| Applicable nameplates | | MG-CPM-07 41692 | | | | MG-CPM-04 41390N, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | | MG-CPM-04 41391, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | |
| Applicable Short Bars | | XW5S-P1.5-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | XW5S-P2.5-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | XW5S-P4.0-□ (□: Poles = 2, 3, 4, 5 or 10) | | | |

*1. For the recommended applicable wire ranges, refer to page 17 for solid and stranded wires, and to page 19 for ferrules.

*2. You can also use ferrules for 1.0 to 1.5 mm² wires if you use ferrules without insulation sleeve. Refer to page 19 for details.

*3. Do not apply more than the rated current to the terminal block.

Feed Through Terminal blocks Multi conductor terminals

| Model | XW5T-P1.5-1.2-1 (BL) | | | | XW5T-P2.5-1.2-1 (BL) | | | | XW5T-P4.0-1.2-1 (BL) | | | | | | | |
|--------------------------------|---|---|--------------------------------|------------|--|--|--|--|---|---|--|--|---|--|--|--|
| Appearance and internal wiring | 1 tier, 1:2 | | | | 1 tier, 1:2 | | | | 1 tier, 1:2 | | | | | | | |
| |  | | | |  | | | |  | | | | | | | |
| Applicable wire sizes*1 | Stranded wire | | | | 0.08 mm ² to 1.5 mm ² | | | | 0.14 mm ² to 2.5 mm ² | | | | 0.2 mm ² to 4.0 mm ² | | | |
| | Solid wire | | | | 0.14 mm ² to 1.5 mm ² | | | | 0.14 mm ² to 4.0 mm ² | | | | 0.2 mm ² to 6.0 mm ² | | | |
| | Stranded wire with ferrule with Plastic sleeve | | | | 0.14 mm ² to 0.75 mm ² (1.5 mm ²) *2 | | | | 0.14 mm ² to 2.5 mm ² | | | | 0.25 mm ² to 4.0 mm ² | | | |
| Dimensions | | 3.5 × 54.1 × 30.5 | | | | 5.2 × 60.5 × 35.3 | | | | 6.2 × 66.5 × 35.3 | | | | | | |
| Rated voltage | | 500 V | | | | 800 V | | | | | | | | | | |
| Rated current *3 | | 17.5 A | | | | 24 A | | | | 32 A | | | | | | |
| IEC rated voltage | | 500 V | | | | 800 V | | | | | | | | | | |
| IEC rated current *3 | | 17.5 A/1.5 mm ² | | | | 24 A/2.5 mm ² | | | | 32 A/4.0 mm ² | | | | | | |
| Usage Group (UG) | | B, C | | D | | B, C | | | | | | | | | | |
| UL rated voltage | | 300 V | 51-150 V | 151-300 V | 301-600 V | 600 V | | | | | | | | | | |
| UL rated current *3 | | 15 A/AWG14 (SOL) 10 A/AWG16 | 15 A/AWG14 (SOL) 10 A/AWG16 | 10 A/AWG16 | 5 A/AWG16-20 | 20 A/AWG12 (SOL), 15 A/AWG14 | | | | 30 A/AWG10 (SOL), 20 A/AWG12 | | | | | | |
| Dielectric strength | | 1,890 VAC for 1 min (leakage current: 1 mA max.) | | | | 2,000 VAC for 1 min (leakage current: 1 mA max.) | | | | | | | | | | |
| End Cover | | XW5E-P1.5-1.2-1 | | | | XW5E-P2.5-1.2-1 | | | | XW5E-P4.0-1.2-1 | | | | | | |
| Special tool | | XW4Z-00B | | | | | | | | | | | | | | |
| Applicable nameplates | | MG-CPM-04 41392, MG-CPM-07 41692 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | | MG-CPM-04 41390N, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | | MG-CPM-04 41391, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | | | | |
| Applicable Short Bars | | XW5S-P1.5-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | XW5S-P2.5-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | XW5S-P4.0-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | | | |

*1. For the recommended applicable wire ranges, refer to page 17 for solid and stranded wires, and to page 19 for ferrules.

*2. You can also use ferrules for 1.0 to 1.5 mm² wires if you use ferrules without insulation sleeve. Refer to page 19 for details.

*3. Do not apply more than the rated current to the terminal block.

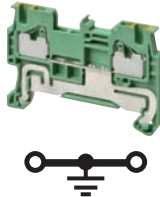
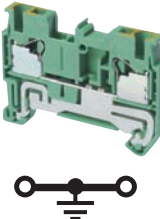
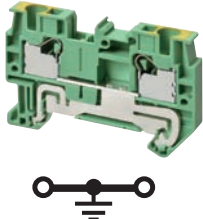
| Model | | XW5T-P1.5-2.2-1 (BL) | | | | XW5T-P2.5-2.2-1 (BL) | | | | XW5T-P4.0-2.2-1 (BL) | | | |
|--------------------------------|--|---|--------------------------------|------------|--------------|--|--|--|--|---|--|--|--|
| Appearance and internal wiring | | 1 tier, 2:2 | | | | 1 tier, 2:2 | | | | 1 tier, 2:2 | | | |
| | |  | | | |  | | | |  | | | |
| Applicable wire sizes*1 | Stranded wire | 0.08 mm ² to 1.5 mm ² | | | | 0.14 mm ² to 2.5 mm ² | | | | 0.2 mm ² to 4.0 mm ² | | | |
| | Solid wire | 0.14 mm ² to 1.5 mm ² | | | | 0.14 mm ² to 4.0 mm ² | | | | 0.2 mm ² to 6.0 mm ² | | | |
| | Stranded wire with ferrule with Plastic sleeve | 0.14 mm ² to 0.75 mm ² (1.5 mm ²) *2 | | | | 0.14 mm ² to 2.5 mm ² | | | | 0.25 mm ² to 4.0 mm ² | | | |
| Dimensions | | 3.5 × 63.2 × 30.5 | | | | 5.2 × 72.2 × 35.3 | | | | 6.2 × 76.9 × 35.3 | | | |
| Rated voltage | | 500 V | | | | 800 V | | | | | | | |
| Rated current *3 | | 17.5 A | | | | 24 A | | | | 32 A | | | |
| IEC rated voltage | | 500 V | | | | 800 V | | | | | | | |
| IEC rated current *3 | | 17.5 A/1.5 mm ² | | | | 24 A/2.5 mm ² | | | | 32 A/4.0 mm ² | | | |
| Usage Group (UG) | | B, C | | D | | B, C | | | | | | | |
| UL rated voltage | | 300 V | 51-150 V | 151-300 V | 301-600 V | 600 V | | | | | | | |
| UL rated current *3 | | 15 A/AWG14 (SOL) 10 A/AWG16 | 15 A/AWG14 (SOL) 10 A/AWG16 | 10 A/AWG16 | 5 A/AWG16-20 | 20 A/AWG12 (SOL), 15 A/AWG14 | | | | 30 A/AWG10 (SOL), 20 A/AWG12 | | | |
| Dielectric strength | | 1,890 VAC for 1 min (leakage current: 1 mA max.) | | | | 2,000 VAC for 1 min (leakage current: 1 mA max.) | | | | | | | |
| End Cover | | XW5E-P1.5-2.2-1 | | | | XW5E-P2.5-2.2-1 | | | | XW5E-P4.0-2.2-1 | | | |
| Special tool | | XW4Z-00B | | | | | | | | | | | |
| Applicable nameplates | | MG-CPM-04 41392, MG-CPM-07 41692 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | | MG-CPM-04 41390N, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | | MG-CPM-04 41391, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | | | |
| Applicable Short Bars | | XW5S-P1.5-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | XW5S-P2.5-□ (□: Poles = 2, 3, 4, 5 or 10) | | | | XW5S-P4.0-□ (□: Poles = 2, 3, 4, 5 or 10) | | | |

*1. For the recommended applicable wire ranges, refer to page 17 for solid and stranded wires, and to page 19 for ferrules.

*2. You can also use ferrules for 1.0 to 1.5 mm² wires if you use ferrules without insulation sleeve. Refer to page 19 for details.

*3. Do not apply more than the rated current to the terminal block.

Grounding Terminal blocks Standard terminals

| Model | XW5G-P1.5-1.1-1 | XW5G-P2.5-1.1-1 | XW5G-P4.0-1.1-1 |
|--------------------------------|---|--|---|
| Appearance and internal wiring | 1 tier, 1:1  | 1 tier, 1:1  | 1 tier, 1:1  |
| Applicable wire sizes*1 | Stranded wire | 0.08 mm ² to 1.5 mm ² | 0.14 mm ² to 2.5 mm ² |
| | Solid wire | 0.14 mm ² to 1.5 mm ² | 0.14 mm ² to 4.0 mm ² |
| | Stranded wire with ferrule with Plastic sleeve | 0.14 mm ² to 0.75 mm ² (1.5 mm ²) *2 | 0.14 mm ² to 2.5 mm ² |
| Dimensions | 3.5 × 45 × 30.5 | 5.2 × 48.8 × 35.3 | 6.2 × 56.1 × 35.3 |
| IEC rated voltage | 500 V | 800 V | |
| UL rated voltage | 600 V | | |
| Dielectric strength | 1,890 VAC for 1 min (leakage current: 1 mA max.) | 2,000 VAC for 1 min (leakage current: 1 mA max.) | |
| End Cover | XW5E-P1.5-1.1-1 | XW5E-P2.5-1.1-1 | XW5E-P4.0-1.1-1 |
| Special tool | XW4Z-00B | | |
| Applicable nameplates | MG-CPM-04 41392, MG-CPM-07 41692 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | MG-CPM-04 41390N, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | MG-CPM-04 41391, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness |

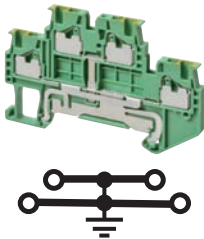
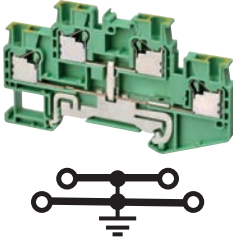
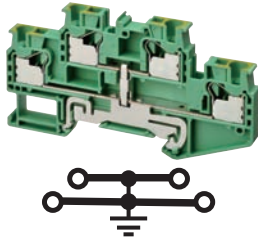
Note: Use a conductive DIN Track when using a Grounding Terminal Block.

OMRON does not offer conductive DIN Tracks. Please use a commercially available product.

*1. For the recommended applicable wire ranges, refer to page 17 for solid and stranded wires, and to page 19 for ferrules.

*2. You can also use ferrules for 1.0 to 1.5 mm² wires if you use ferrules without insulation sleeve. Refer to page 19 for details.

Grounding Terminal blocks Multi tiers terminal

| Model | | XW5G-P1.5-1.1-2 | XW5G-P2.5-1.1-2 | XW5G-P4.0-1.1-2 |
|--------------------------------|--|---|--|---|
| Appearance and internal wiring | | 2 tiers, 1:1  | 2 tiers, 1:1  | 2 tiers, 1:1  |
| Applicable wire sizes*1 | Stranded wire | 0.08 mm ² to 1.5 mm ² | 0.14 mm ² to 2.5 mm ² | 0.2 mm ² to 4.0 mm ² |
| | Solid wire | 0.14 mm ² to 1.5 mm ² | 0.14 mm ² to 4.0 mm ² | 0.2 mm ² to 6.0 mm ² |
| | Stranded wire with ferrule with Plastic sleeve | 0.14 mm ² to 0.75 mm ² (1.5 mm ²) *2 | 0.14 mm ² to 2.5 mm ² | 0.25 mm ² to 4.0 mm ² |
| Dimensions | | 3.5 × 65.7 × 41.1 | 5.2 × 78.8 × 45.9 | 6.2 × 85 × 45.9 |
| IEC rated voltage | | 500 V | | |
| UL rated voltage | | 600 V | | |
| Dielectric strength | | 1,890 VAC for 1 min (leakage current: 1 mA max.) | 2,000 VAC for 1 min (leakage current: 1 mA max.) | |
| End Cover | | XW5E-P1.5-1.1-2 | XW5E-P2.5-1.1-2 | XW5E-P4.0-1.1-2 |
| Special tool | | XW4Z-00B | | |
| Applicable nameplates | | MG-CPM-07 41692 | MG-CPM-04 41390N, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | MG-CPM-04 41391, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness |

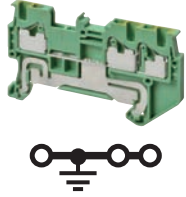
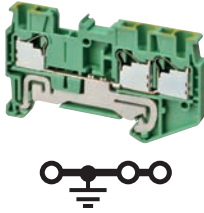
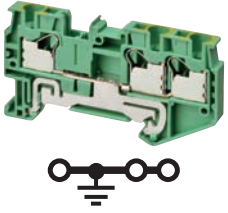
Note: Use a conductive DIN Track when using a Grounding Terminal Block.

OMRON does not offer conductive DIN Tracks. Please use a commercially available product.

*1. For the recommended applicable wire ranges, refer to page 17 for solid and stranded wires, and to page 19 for ferrules.

*2. You can also use ferrules for 1.0 to 1.5 mm² wires if you use ferrules without insulation sleeve. Refer to page 19 for details.

Grounding Terminal blocks Multi conductor terminals

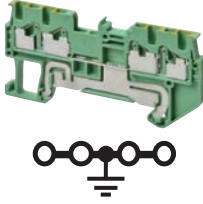
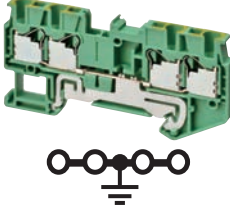
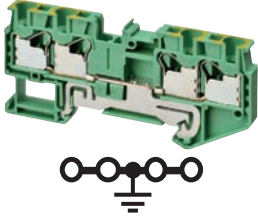
| Model | | XW5G-P1.5-1.2-1 | XW5G-P2.5-1.2-1 | XW5G-P4.0-1.2-1 |
|--------------------------------|--|---|--|---|
| Appearance and internal wiring | | <p>1 tier, 1:2</p>  | <p>1 tier, 1:2</p>  | <p>1 tier, 1:2</p>  |
| Applicable wire sizes*1 | Stranded wire | 0.08 mm ² to 1.5 mm ² | 0.14 mm ² to 2.5 mm ² | 0.2 mm ² to 4.0 mm ² |
| | Solid wire | 0.14 mm ² to 1.5 mm ² | 0.14 mm ² to 4.0 mm ² | 0.2 mm ² to 6.0 mm ² |
| | Stranded wire with ferrule with Plastic sleeve | 0.14 mm ² to 0.75 mm ² (1.5 mm ²) *2 | 0.14 mm ² to 2.5 mm ² | 0.25 mm ² to 4.0 mm ² |
| Dimensions | | 3.5 × 54.1 × 30.5 | 5.2 × 60.5 × 35.3 | 6.2 × 66.5 × 35.3 |
| IEC rated voltage | | 500 V | 800 V | |
| UL rated voltage | | 600 V | 600 V | |
| Dielectric strength | | 1,890 VAC for 1 min (leakage current: 1 mA max.) | 2,000 VAC for 1 min (leakage current: 1 mA max.) | |
| End Cover | | XW5E-P1.5-1.2-1 | XW5E-P2.5-1.2-1 | XW5E-P4.0-1.2-1 |
| Special tool | | XW4Z-00B | | |
| Applicable nameplates | | MG-CPM-04 41392, MG-CPM-07 41692 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | MG-CPM-04 41390N, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | MG-CPM-04 41391, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness |

Note: Use a conductive DIN Track when using a Grounding Terminal Block.

OMRON does not offer conductive DIN Tracks. Please use a commercially available product.

*1. For the recommended applicable wire ranges, refer to page 17 for solid and stranded wires, and to page 19 for ferrules.

*2. You can also use ferrules for 1.0 to 1.5 mm² wires if you use ferrules without insulation sleeve. Refer to page 19 for details.

| Model | | XW5G-P1.5-2.2-1 | XW5G-P2.5-2.2-1 | XW5G-P4.0-2.2-1 |
|--------------------------------|--|---|--|---|
| Appearance and internal wiring | | 1 tier, 2:2  | 1 tier, 2:2  | 1 tier, 2:2  |
| Applicable wire sizes*1 | Stranded wire | 0.08 mm ² to 1.5 mm ² | 0.14 mm ² to 2.5 mm ² | 0.2 mm ² to 4.0 mm ² |
| | Solid wire | 0.14 mm ² to 1.5 mm ² | 0.14 mm ² to 4.0 mm ² | 0.2 mm ² to 6.0 mm ² |
| | Stranded wire with ferrule with Plastic sleeve | 0.14 mm ² to 0.75 mm ² (1.5 mm ²) *2 | 0.14 mm ² to 2.5 mm ² | 0.25 mm ² to 4.0 mm ² |
| Dimensions | | 3.5 × 63.2 × 30.5 | 5.2 × 72.2 × 35.3 | 6.2 × 76.9 × 35.3 |
| IEC rated voltage | | 500 V | 800 V | |
| UL rated voltage | | 600 V | | |
| Dielectric strength | | 1,890 VAC for 1 min (leakage current: 1 mA max.) | 2,000 VAC for 1 min (leakage current: 1 mA max.) | |
| End Cover | | XW5E-P1.5-2.2-1 | XW5E-P2.5-2.2-1 | XW5E-P4.0-2.2-1 |
| Special tool | | XW4Z-00B | | |
| Applicable nameplates | | MG-CPM-04 41392, MG-CPM-07 41692 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | MG-CPM-04 41390N, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness | MG-CPM-04 41391, MG-CPM-07 41691 or commercially available nameplate with 9.5 mm width and 0.5 mm thickness |

Note: Use a conductive DIN Track when using a Grounding Terminal Block.

OMRON does not offer conductive DIN Tracks. Please use a commercially available product.

*1. For the recommended applicable wire ranges, refer to page 17 for solid and stranded wires, and to page 19 for ferrules.

*2. You can also use ferrules for 1.0 to 1.5 mm² wires if you use ferrules without insulation sleeve. Refer to page 19 for details.

Performance

| | |
|---------------------------|---|
| Operating temperature | -40 to 55°C (with no condensation or icing) |
| Operating humidity | 5% to 95% |
| Insulating material | PA resin |
| Fire resistance | UL94 V-0 |
| Insertion durability | 50 times |
| Vibration resistance | 10 to 150 Hz, Acceleration of 50 m/s ² for 80 min each in X, Y, and Z directions |
| Shock resistance | 500 m/s ² for 11 ms each in 6 directions 5 times |
| Storage Temperature Range | -40 to 85°C (with no condensation or icing) |
| Storage Humidity Range | 5% to 95% |

Short Bars

| Model | XW5S-P1.5-□ | XW5S-P2.5-□ | XW5S-P4.0-□ |
|---------------|-------------|-------------|-------------|
| Rated voltage | 500 V | 800 V | |
| Rated current | 17.5 A | 24 A | 32 A |

Standards

Compliant standard

- UL1059
- CSA (C22.2 No.158)
- IEC 60947-7-1

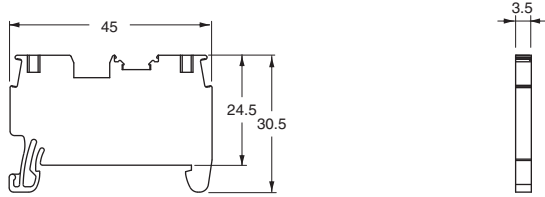
Certification

- cURus (File No. E245101)

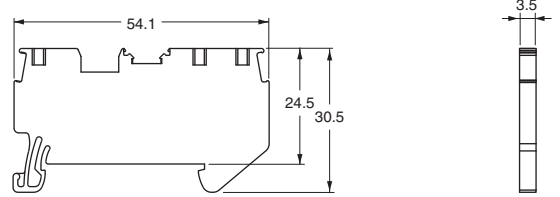
Dimensions

DIN Track Terminal Blocks

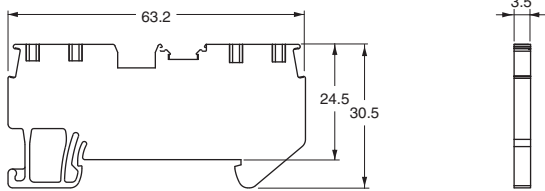
XW5T-P1.5-1.1-1 (BL)/XW5G-P1.5-1.1-1



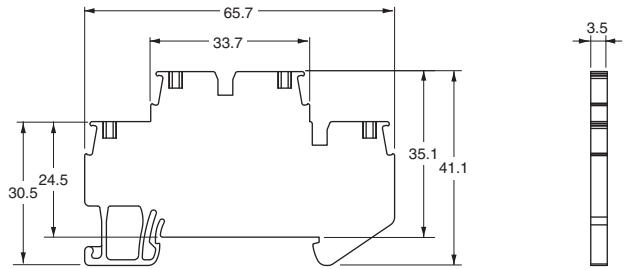
XW5T-P1.5-1.2-1 (BL)/XW5G-P1.5-1.2-1



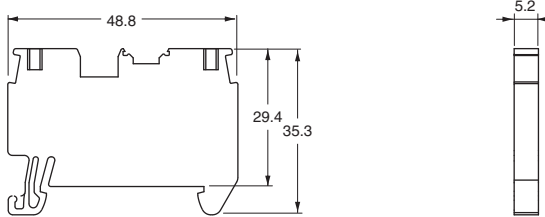
XW5T-P1.5-2.2-1 (BL)/XW5G-P1.5-2.2-1



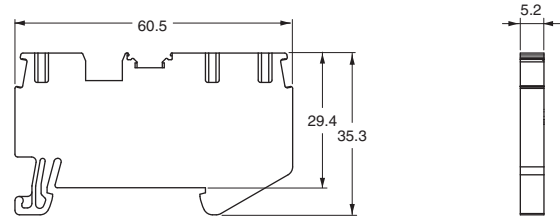
XW5T-P1.5-1.1-2 (BL)/XW5G-P1.5-1.1-2



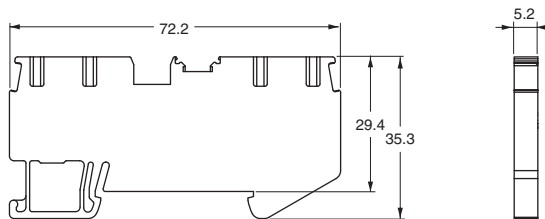
XW5T-P2.5-1.1-1 (BL)/XW5G-P2.5-1.1-1



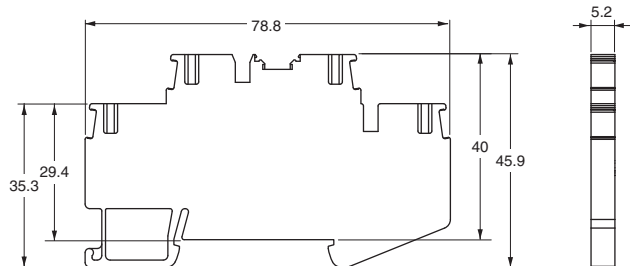
XW5T-P2.5-1.2-1 (BL)/XW5G-P2.5-1.2-1



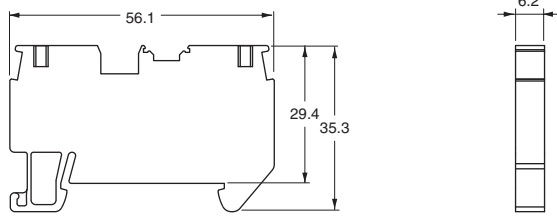
XW5T-P2.5-2.2-1 (BL)/XW5G-P2.5-2.2-1



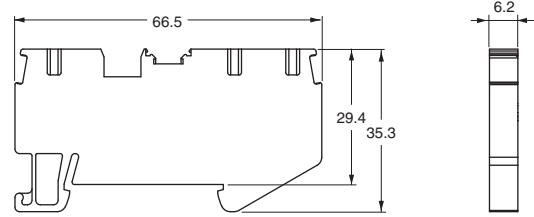
XW5T-P2.5-1.1-2 (BL)/XW5G-P2.5-1.1-2



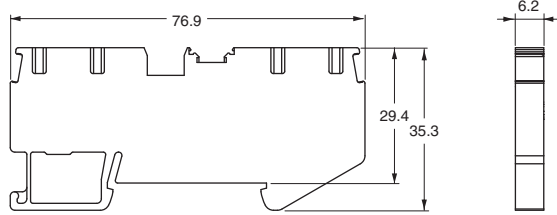
XW5T-P4.0-1.1-1 (BL)/XW5G-P4.0-1.1-1



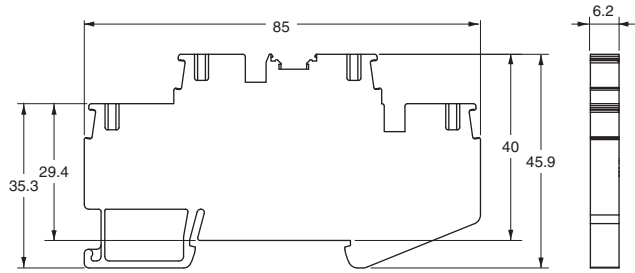
XW5T-P4.0-1.2-1 (BL)/XW5G-P4.0-1.2-1



XW5T-P4.0-2.2-1 (BL)/XW5G-P4.0-2.2-1

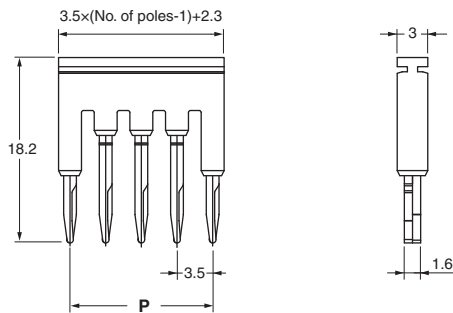


XW5T-P4.0-1.1-2 (BL)/XW5G-P4.0-1.1-2



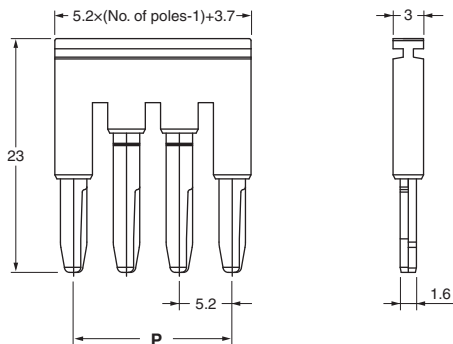
Short Bars

XW5S-P1.5-□



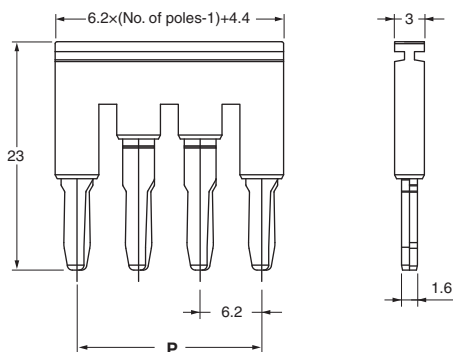
| Model | P (mm) |
|---------------|--------|
| XW5S-P1.5-2□ | 3.5 |
| XW5S-P1.5-3□ | 7.0 |
| XW5S-P1.5-4□ | 10.5 |
| XW5S-P1.5-5□ | 14.0 |
| XW5S-P1.5-10□ | 31.5 |

XW5S-P2.5-□



| Model | P (mm) |
|---------------|--------|
| XW5S-P2.5-2□ | 5.2 |
| XW5S-P2.5-3□ | 10.4 |
| XW5S-P2.5-4□ | 15.6 |
| XW5S-P2.5-5□ | 20.8 |
| XW5S-P2.5-10□ | 46.8 |

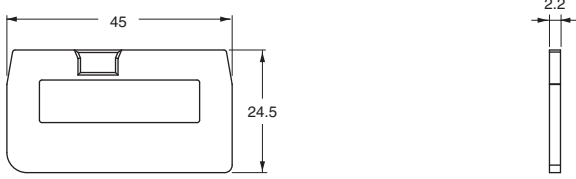
XW5S-P4.0-□



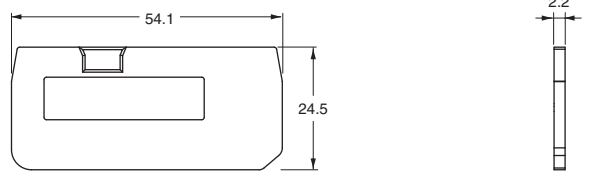
| Model | P (mm) |
|---------------|--------|
| XW5S-P4.0-2□ | 6.2 |
| XW5S-P4.0-3□ | 12.4 |
| XW5S-P4.0-4□ | 18.6 |
| XW5S-P4.0-5□ | 24.8 |
| XW5S-P4.0-10□ | 55.8 |

End Cover

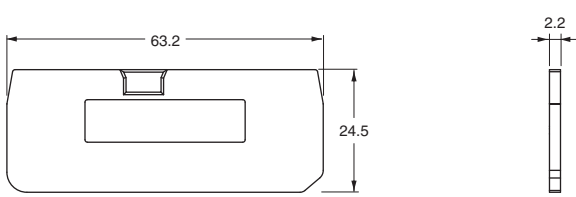
XW5E-P1.5-1.1-1



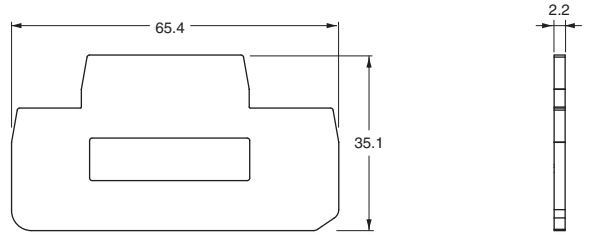
XW5E-P1.5-1.2-1



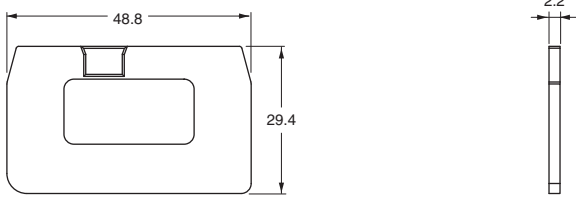
XW5E-P1.5-2.2-1



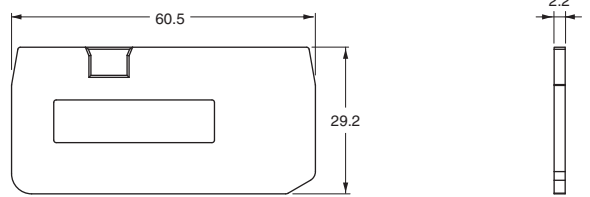
XW5E-P1.5-1.1-2



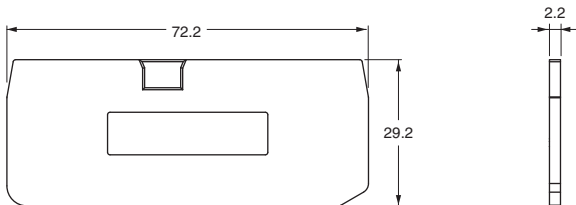
XW5E-P2.5-1.1-1



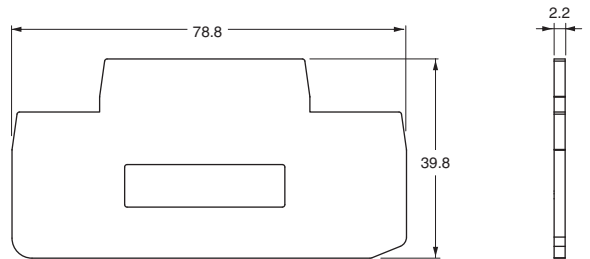
XW5E-P2.5-1.2-1



XW5E-P2.5-2.2-1

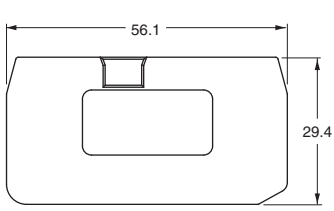


XW5E-P2.5-1.1-2

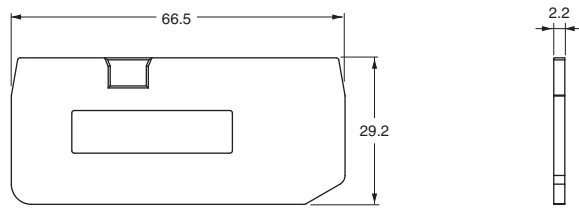


XW5T

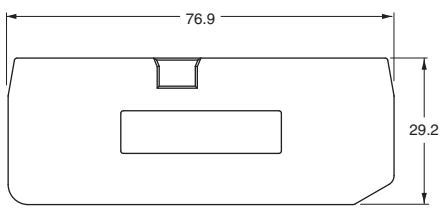
XW5E-P4.0-1.1-1



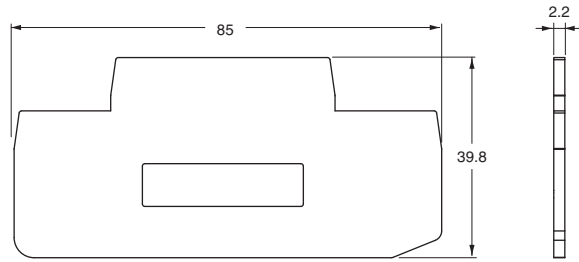
XW5E-P4.0-1.2-1



XW5E-P4.0-2.2-1

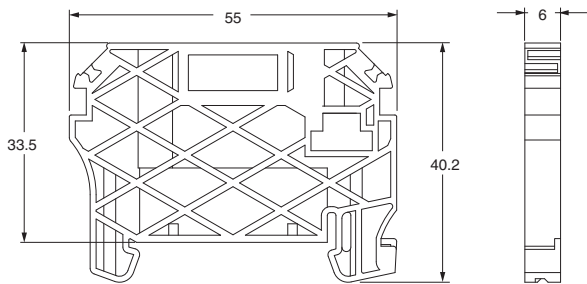


XW5E-P4.0-1.1-2

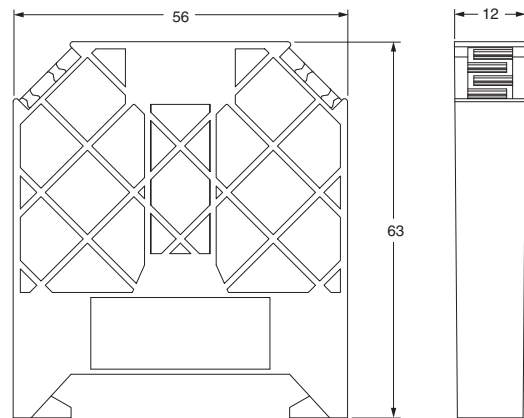


End Brackets/Separator Plates

XW5Z-EP6 (End Brackets)



XW5Z-EP12 (Separator Plates)



Safety Precautions

Warning Indications

| | |
|------------------------------------|---|
| Precautions for Safe Use | Supplementary comments on what to do or avoid doing, to use the product safely. |
| Precautions for Correct Use | Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance. |

Precautions for Safe Use

- Do not drop the Terminal Block. Terminal Block functionality may be inhibited.
- Do not exceed the ratings. Doing so may damage or burn out the Terminal Block.
- Mount the Terminal Blocks on a DIN Track and secure both ends with Stoppers.
- Do not use the Terminal Block in locations where toxic gases, such as H₂S, SO₂, NH₃, HNO₃, and Cl₂, may be present, or in locations subject to high temperature or humidity. Doing so may damage the Terminal Block due to contact failure or corrosion.
- Do not use the Terminal Block submerged in oil or water, or in locations continuously subject to splashes of oil or water. Doing so may result in oil or water entering and damaging the Terminal Block.
- Do not use or keep the Terminal Block under the following conditions:
 - Subject to severe temperature changes.
 - Subject to high humidity or condensation.
 - Subject to severe vibration or shock.
 - Where direct rays of the sun strike.
 - Where sea breeze may be present.
- Do not wire anything to the release holes.
- Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a flat-blade screwdriver into the release holes at an angle. The terminal block may be damaged if you insert the screwdriver straight in.
- Do not allow the flat-blade screwdriver to fall out while it is inserted into a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force. Doing so may cause the wire disconnection. Do not place excessive force on a Terminal Block. Doing so may damage or deform the Terminal Block and result in contact failure.
- Do not insert more than one wire into each terminal insertion hole.
- If you mount more than one Terminal Block, mount them so that the conductive parts of adjacent Terminal Blocks are facing in the same direction. If they face in different directions, short circuits may occur between adjacent Terminal Blocks.
- To prevent wire materials from smoking or igniting, confirm wire ratings and use the wiring materials given in the following table.

| | Recommended Wire | | Stripping length (Without Ferrules) |
|----------------------------|---|---|-------------------------------------|
| | Solid | Stranded | |
| XW5T-P1.5-□ XW5G-P1.5-□ | 0.14 to 1.5 mm ² / AWG 26 to 14 | 0.14 to 1.5 mm ² / AWG 28 to 16 | 8 mm |
| XW5T-P2.5-□ XW5G-P2.5-□ | 0.14 to 4.0 mm ² / AWG 26 to 12 | 0.14 to 2.5 mm ² / AWG 26 to 14 | 10 mm |
| XW5T-P4.0-□ XW5G-P4.0-□ | 0.25 to 6.0 mm ² / AWG 24 to 10 | 0.25 to 4.0 mm ² / AWG 24 to 12 | 12 mm |

Precautions for Correct Use

1. Precautions for Correct Use

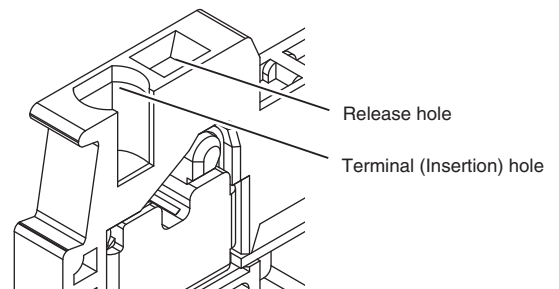
- Always mount End Covers to the following locations when you use Terminal Blocks.
 - Exposed metal surface of the last Terminal Block
 - Any Terminal Block that is next to a different shape of Terminal Block

There is a risk of electric shock if End Covers are not used.

- When you wire the Terminal Block, do not subject it or the wires to stress. Secure the wires so that they do not resonate with vibrations from the facilities in installation conditions.
- Always turn OFF the power supply before wiring. Electrical shock may occur.

2. Connecting Wires to the Push-In Plus Terminal Block

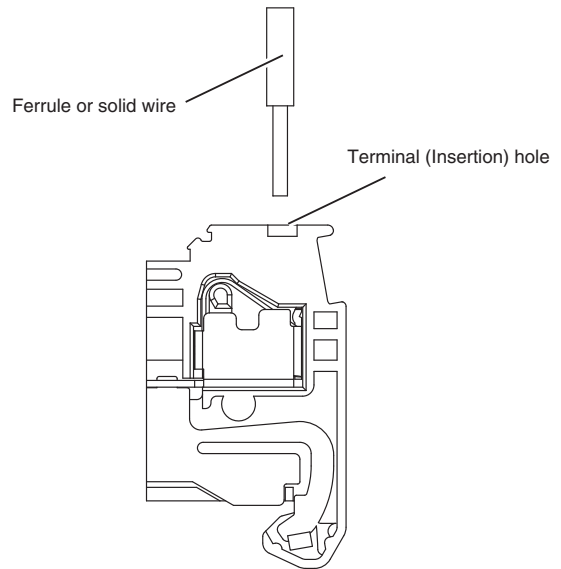
Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.

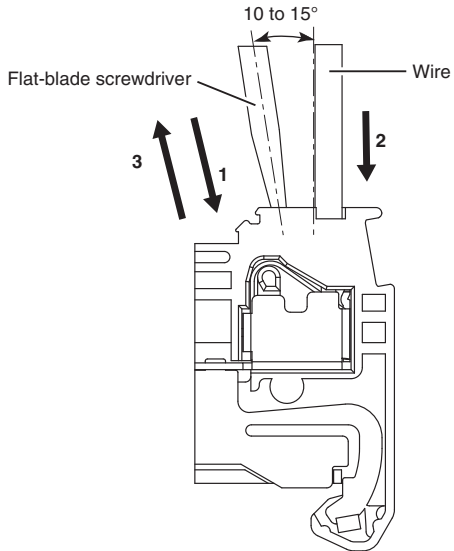
If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.



Connecting Stranded Wires

Use the following procedure to connect the wires to the terminal block.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole. The angle should be between 10° and 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until it strikes the terminal block.
3. Remove the flat-blade screwdriver from the release hole.



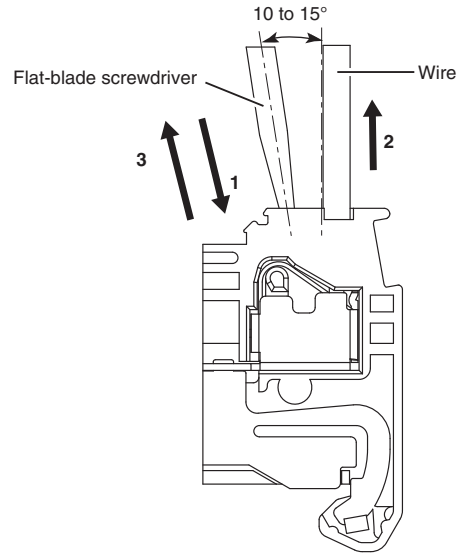
Checking Connections

- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- If you use a ferrule with a conductor length of 10 mm, part of the ferrule with a conductor length of 10 mm, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

3. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
3. Remove the flat-blade screwdriver from the release hole.



4. Recommended Ferrules and Crimp Tools

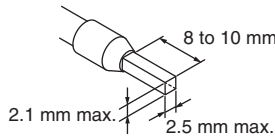
Recommended ferrules

XW5T-P1.5-□-□□/XW5G-□P1.5-□-□□

| Applicable wire | | Ferrule Conductor length (mm) | Stripping length (mm) (Ferrules used) | Recommended ferrules | | |
|------------------------|-------|-------------------------------|---------------------------------------|--|----------------------------|----------------------|
| (mm ²) | (AWG) | | | Manufactured by Phoenix Contact | Manufactured by Weidmuller | Manufactured by Wago |
| 0.14 | 26 | 8 | 10 | Al 0,14-8 | H0.14/12 | --- |
| 0.25 | 24 | 8 | 10 | Al 0,25-8 | H0.25/12 | 216-301 |
| | | 10 | 12 | Al 0,25-10 | --- | --- |
| 0.34 | 22 | 8 | 10 | Al 0,34-8 | H0.34/12 | 216-302 |
| | | 10 | 12 | Al 0,34-10 | --- | --- |
| 0.50 | 20 | 8 | 10 | Al 0,5-8 | H0.5/14 | 216-201 |
| | | 10 | 12 | Al 0,5-10 | H0.5/16 | 216-241 |
| 0.75 | 18 | 8 | 10 | Al 0,75-8 | H0.75/14 | 216-202 |
| | | 10 | 12 | Al 0,75-10 | H0.75/16 | 216-242 |
| Recommended crimp tool | | | | CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S | PZ6 roto | Variocrimp4 |

- Note:** 1. Make sure that the outer diameter of the wire is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
2. Make sure that the ferrule processing dimensions conform to the following figure.

Ferrule Processed Dimensions



3. For the ferrule which is for applicable wire (1 to 1.5 mm²/ AWG 18 to 16), please use a ferrule without an insulation sleeve. (Refer to the following table.)

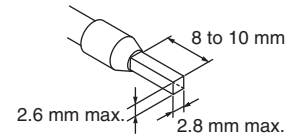
| Applicable wire | | Ferrule Conductor length (mm) | Stripping length (mm) (Ferrules used) | Recommended ferrules | | |
|-------------------------|-------|-------------------------------|---------------------------------------|--|----------------------------|----------------------|
| (mm ²) | (AWG) | | | Manufactured by Phoenix Contact | Manufactured by Weidmuller | Manufactured by Wago |
| 1/1.25 | 18/17 | 8 | 8 | A 1-8 | --- | F-1.0-8 |
| | | 10 | 10 | A 1-10 | H1,0/10 | F-1.0-10 |
| 1.25/1.5 | 17/16 | 10 | 10 | A 1,5-10 | H1,5/10 | F-1.5-10 |
| Recommended crimp tools | | | | CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S | PZ6 roto | Variocrimp4 |

XW5T-P2.5-□-□□/XW5G-□P2.5-□-□□

| Applicable wire | | Ferrule Conductor length (mm) | Stripping length (mm) (Ferrules used) | Recommended ferrules | | |
|------------------------|-------|-------------------------------|---------------------------------------|--|----------------------------|----------------------|
| (mm ²) | (AWG) | | | Manufactured by Phoenix Contact | Manufactured by Weidmuller | Manufactured by Wago |
| 0.14 | 26 | 8 | 10 | Al 0,14-8 | H0.14/12 | --- |
| 0.25 | 24 | 8 | 10 | Al 0,25-8 | H0.25/12 | 216-301 |
| | | 10 | 12 | Al 0,25-10 | --- | --- |
| 0.34 | 22 | 8 | 10 | Al 0,34-8 | H0.34/12 | 216-302 |
| | | 10 | 12 | Al 0,34-10 | --- | --- |
| 0.50 | 20 | 8 | 10 | Al 0,5-8 | H0.5/14 | 216-201 |
| | | 10 | 12 | Al 0,5-10 | H0.5/16 | 216-241 |
| 0.75 | 18 | 8 | 10 | Al 0,75-8 | H0.75/14 | 216-202 |
| | | 10 | 12 | Al 0,75-10 | H0.75/16 | 216-242 |
| 1/1.25 | 18/17 | 8 | 10 | Al 1-8 | H1.0/14 | 216-203 |
| | | 10 | 12 | Al 1-10 | H1.0/16 | 216-243 |
| 1.25/1.5 | 17/16 | 8 | 10 | Al 1,5-8 | H1.5/14 | 216-204 |
| | | 10 | 12 | Al 1,5-10 | H1.5/16 | 216-244 |
| 2.5 | 14 | 10 | 12 | Al 2,5-10 | H2.5/16DS | 216-246 |
| Recommended crimp tool | | | | CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S | PZ6 roto | Variocrimp4 |

- Note:** 1. Make sure that the outer diameter of the wire is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
2. Make sure that the ferrule processing dimensions conform to the following figure.

Ferrule Processed Dimensions

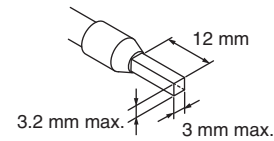


XW5T-P4.0-□-□□/XW5G-□P4.0-□-□□

| Applicable wire | | Ferrule Conductor length (mm) | Stripping length (mm) (Ferrules used) | Recommended ferrules | | | | |
|------------------------|-------|-------------------------------|---------------------------------------|--|----------------------------|----------------------|--|--|
| (mm ²) | (AWG) | | | Manufactured by Phoenix Contact | Manufactured by Weidmuller | Manufactured by Wago | | |
| 0.25 | 24 | 12 | 14 | Al 0,25-12 | --- | --- | | |
| 0.34 | 22 | | | Al 0,34-12 | --- | --- | | |
| 0.50 | 20 | | | Al 0,5-12 | --- | 216-261 | | |
| 0.75 | 18 | | | Al 0,75-12 | H0.75/18 | 216-262 | | |
| 1/1.25 | 18/17 | | | Al 1-12 | H1.0/18 | 216-263 | | |
| 1.25/1.5 | 17/16 | | | Al 1,5-12 | H1.5/18D | 216-264 | | |
| 2.5 | 14 | | | Al 2,5-12 | H2.5/19D | 216-266 | | |
| 4 | 12 | | | Al 4-12 | H4.0/20D | 216-267 | | |
| Recommended crimp tool | | | | CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S | PZ6 roto | Variocrimp4 | | |

- Note:** 1. Make sure that the outer diameter of the wire is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
2. Make sure that the ferrule processing dimensions conform to the following figure.

Ferrule Processed Dimensions

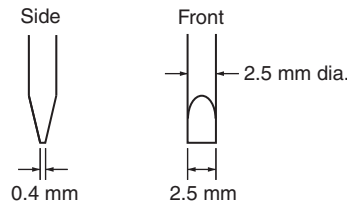


Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires.

Use the following flat-blade screwdriver.

The following table shows manufacturers and models as of 2015/Dec.



| Model | Manufacturer |
|-------------------------------|-----------------|
| ESD 0,40x2,5 | Wera |
| SZS 0,4x2,5 SZF 0-0,4x2,5* | Phoenix Contact |
| 0.4x2.5x75 302 | Wiha |
| AEF.2,5x75 | Facom |
| 210-719 | Wago |
| SDIS 0.4x2.5x75 | Weidmuller |
| 9900 (-2.5x75) | Vessel |

* OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0,4x2,5 (manufactured by Phoenix Contact).

Recommended Label Printers for Labels

Use the following label printer.

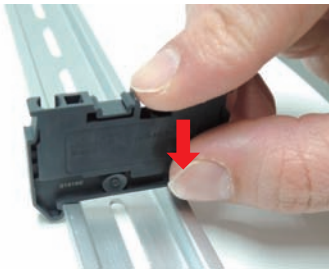
| Manufacturer | Cembre |
|---------------|------------------|
| Label | MG-CPM-04 41392 |
| | MG-CPM-07 41692 |
| | MG-CPM-04 41390N |
| | MG-CPM-07 41691 |
| | MG-CPM-04 41391 |
| Label printer | MG-CPM-07 41691 |
| | MARKINGENIUS MG3 |

Note: Ask to your Omron contact for more details on printers.

5. Mounting to DIN Track/Removing from DIN Track

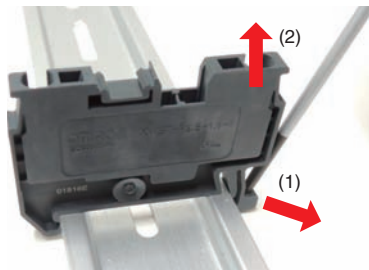
Mounting Method

To mount a Terminal Block to a DIN Track, press it against the DIN Track as shown in the following figure.



Removal Method

To remove a Terminal Block from the DIN Track, catch the tip of a screwdriver in the hook, operate the screwdriver so that the tip moves in direction (1), and then remove the Terminal Block in direction (2). However, do not apply excessive force to the Terminal Block. Doing so may damage it.



6. Using the Accessories

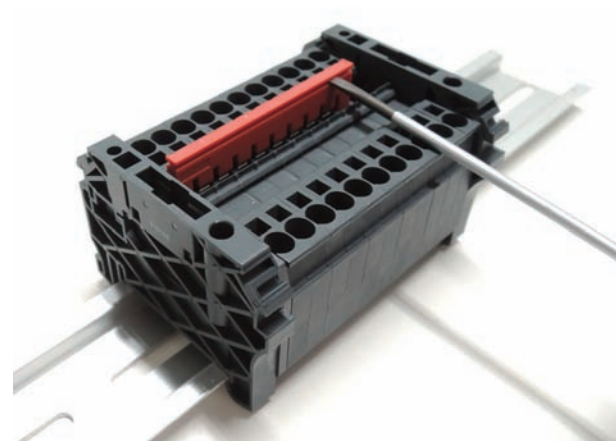
Short Bars

Mounting Method



1. Insert the Short Bar into the Short Bar holes.
2. Press the Short Bar in all of the way.

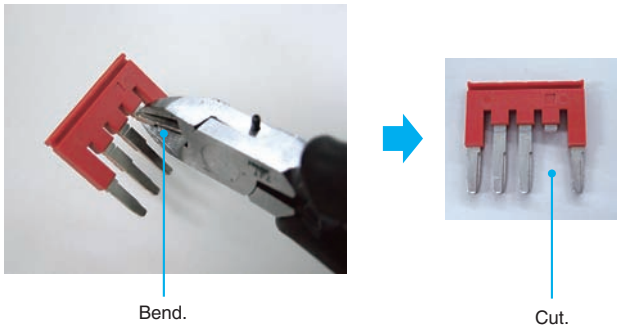
Removal Method



1. Insert the tip of a flat-blade screwdriver into the groove on the Short Bar and lift it up.
2. Remove the Short Bar.

Installation

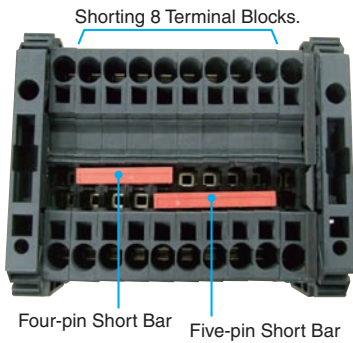
You can bend and cut off any of the middle pins with a tool when you use a Short Bar.



If a Short Bar that has the required pins is not available, you can combine more than one Short Bar to short the required Terminal Blocks.

For example, the following figure shows combining Four-pin and Five-pin Short Bars to short eight Terminal Blocks.

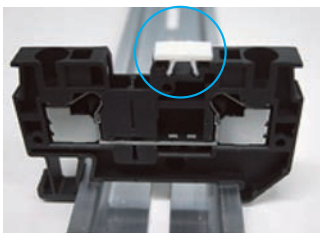
Note: This does not apply to Two-tier Terminal Blocks (XW5T-P□.□-□.□-2/XW5G-P□.□-□.□-2).



Labels

Mounting Method

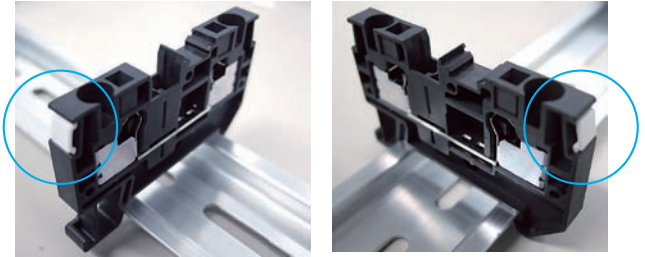
Top-surface Labels



1. Remove the Labels one at a time.
2. Insert them on the tops of the Terminal Blocks.

Note: If multiple Terminal Blocks of the same type are used side by side, you can use multiple Labels still connected to each other.

Side-surface Labels



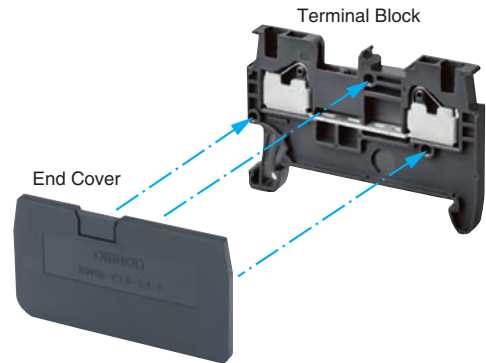
1. Remove the Labels one at a time.
2. Insert them on the sides of the Terminal Blocks.

Note: 1. There is no place to mount the Top-surface Labels on Two-tier Terminal Blocks with a width of 3.5 mm, so they cannot be used.
2. Different models of Labels are used for the top and side surfaces.
3. If multiple Terminal Blocks of the same type are used side by side, you can use multiple Labels still connected to each other.

End Cover

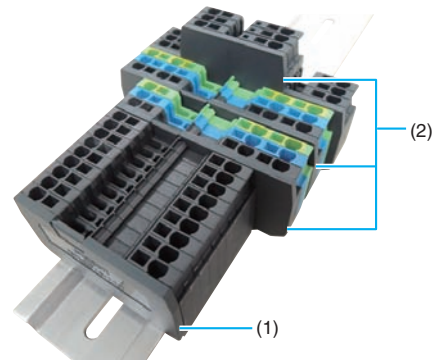
Mounting Method

Attach the End Cover to the side of the Terminal Block with exposed metal.



Always mount End Covers to the following locations when you use Terminal Blocks.

- (1) Exposed metal surface of the last Terminal Block
 - (2) Any Terminal Block that is next to a different shape of Terminal Block
- There is a risk of electric shock if End Covers are not used.



Note: End Brackets or Separator Plate cannot be used in place of an End Cover.

End Brackets

Mounting Method

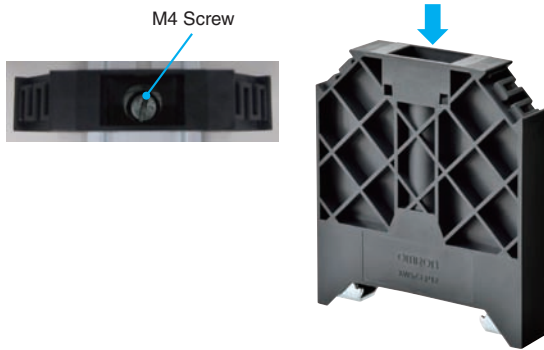
The mounting and removal methods for DIN Track are the same as those for the Terminal Blocks.

Separator Plate

Mounting Method

Use a flat-blade screwdriver to tighten the screw in the middle of the top surface to mount the Separator Plate.

Loosen the screw to remove the Separator Plate from the DIN Track.



7. Storage

Storage Temperature Range

-40 to 85°C with no condensation or icing

Storage Humidity Range

5% to 95%

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NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

Note: Do not use this document to operate the Unit.

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