

# 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.
- 'Hand-free' structure that holds an inserted screwdriver to achieve easier wiring work in comparison with attaching crimp terminals.



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

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Refer to Safety Precautions on page 8.

#### **Model Number Legend**

#### **Feed Through Terminal Blocks**

(1) Maximum Applicable Stranded Wire

1.5: 1.5mm<sup>2</sup> 2.5: 2.5mm<sup>2</sup> 4.0: 4.0mm<sup>2</sup> (2) Wiring

1.1: 1:1 O O 1.2: 1:2 O O O 2.2: 2:2 O O O **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

#### XW5T

## **Ordering Information**

Product type	Applicable wire sizes	Applicable wire sizes with ferrules attached	Color	Wiring	Tiers	Model
			Dadasa	1:1		XW5T-P1.5-1.1-1
				1:2	1 tier	XW5T-P1.5-1.2-1
			Dark gray	2:2		XW5T-P1.5-2.2-1
	0.08 mm <sup>2</sup> to 1.5 mm <sup>2</sup>	0.14 mm <sup>2</sup> to 1.0 mm <sup>2</sup>		1:1	2 tiers	XW5T-P1.5-1.1-2
	AWG 28 to AWG 14	AWG 26 to AWG 18		1:1		XW5T-P1.5-1.1-1BL
Feed Through Terminal			Blue	1:2	1 tier	XW5T-P1.5-1.2-1BL
Blocks			blue	2:2	-	XW5T-P1.5-2.2-1BL
				1:1	2 tiers	XW5T-P1.5-1.1-2BL
	0.14 mm <sup>2</sup> to 4.0 mm <sup>2</sup> AWG 26 to AWG 12	0.14 mm <sup>2</sup> to 2.5 mm <sup>2</sup> AWG 26 to AWG 14	Dark gray	1:1	1 tier	XW5T-P2.5-1.1-1
			Blue	1:1	1 tier	XW5T-P2.5-1.1-1BL
	0.2 mm <sup>2</sup> to 6.0 mm <sup>2</sup>	0.2 mm <sup>2</sup> to 4.0 mm <sup>2</sup>	Dark gray	1:1	1 tier	XW5T-P4.0-1.1-1
	AWG 24 to AWG 10	AWG 24 to AWG 12	Blue	1:1	1 tier	XW5T-P4.0-1.1-1BL
		0.14 mm <sup>2</sup> to 1.0 mm <sup>2</sup> AWG 26 to AWG 18		1:1		XW5G-P1.5-1.1-1
	0.08 mm <sup>2</sup> to 1.5 mm <sup>2</sup>			1:2	1 tier	XW5G-P1.5-1.2-1
O	AWG 28 to AWG 14			2:2		XW5G-P1.5-2.2-1
Grounding Terminal			Green/yellow	1:1	2 tiers	XW5G-P1.5-1.1-2
Blocks	0.14 mm <sup>2</sup> to 4.0 mm <sup>2</sup> AWG26 to AWG 12	0.14 mm <sup>2</sup> to 2.5 mm <sup>2</sup> AWG 26 to AWG 14		1:1	1 tier	XW5G-P2.5-1.1-1
	0.2 mm <sup>2</sup> to 6.0 mm <sup>2</sup> AWG 24 to AWG 10	0.12 mm <sup>2</sup> to 4.0 mm <sup>2</sup> AWG 24 to AWG 12		1:1	1 tier	XW5G-P4.0-1.1-1

#### **Accessories**

#### **Short Bars**

#### For XW5T-P1.5-□ or XW5G-P1.5-□

No. of poles	Colors	Model
2		XW5S-P1.5-2□□
3	Red (RD) Blue(BL) Yellow (YL)	XW5S-P1.5-3□□
4		XW5S-P1.5-4□□
5		XW5S-P1.5-5□□
10		XW5S-P1.5-10□□

#### For XW5T-P2.5-□ or XW5G-P2.5-□

No. of poles	Colors	Model
2		XW5S-P2.5-2□□
3	Red (RD) Blue(BL) Yellow (YL)	XW5S-P2.5-3□□
4		XW5S-P2.5-4□□
5		XW5S-P2.5-5□□
10		XW5S-P2.5-10□□

#### For XW5T-P4.0-□ or XW5G-P4.0-□

No. of poles	Colors	Model
2		XW5S-P4.0-2□□
3	Red (RD)	XW5S-P4.0-3□□
4	Blue(BL)	XW5S-P4.0-4□□
5	Yellow (YL)	XW5S-P4.0-5□□
10		XW5S-P4.0-10□□

#### Labels

Applicable Terminal Blocks	Model	Description
XW5T-P1.5-□	XW5Z-P1.5LB1	For Top 1 sheet (102 pieces)
XW31-F1.5-L	XW5Z-P1.5LB2	For Side 1 sheet (108 pieces)
XW5T-P2.5-□	XW5Z-P2.5LB1	For Top 1 sheet (72 pieces)
XW31-1 2.5-L	XW5Z-P2.5LB2	For Side 1 sheet (72 pieces)
XW5T-P4.0-□	XW5Z-P4.0LB1	For Top 1 sheet (60 pieces)
AWUT-1 4.0°L	XW5Z-P4.0LB2	For Side 1 sheet (60 pieces)

#### **End Cover**

Applicable Terminal Blocks	Model
XW5□-P1.5-1.1-1	XW5E-P1.5-1.1-1
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□-P4.0-1.1-1	XW5E-P4.0-1.1-1

#### **End Brackets/Separator Plates**

Name	Width (mm)	Model
End Brackets	6	XW5Z-EP6
Separator Plates	12	XW5Z-EP12

## **Ratings and Performance**

#### **Feed Through Terminal Blocks**

			. 4.4		4 1:-	4.4	1	4.5 4.4
Appearance and internal wiring	1 tier, 1:1				1 tie	r, 1:1		1 tier, 1:1
Applicable wire sizes	0.08 to 1.5 mm <sup>2</sup> (Stranded wires: 0.08 to 1.5 mm <sup>2</sup> , Solid wire: 0.14 to 1.5 mm <sup>2</sup> ) AWG28 to AWG14			1 <sup>2</sup> ,	0.14 to 4.0 mm <sup>2</sup> (Stranded wires: 0.14 Solid wire: 0.14 to 4. AWG26 to AWG12			wires: 0.2 to 4.0 mm <sup>2</sup> , : 0.2 to 6.0 mm <sup>2</sup> )
Model	XW5T-P1.5-	·1.1-1(BL	.)		XW5T-P2.5-1.1-1(BL	_)	XW5T-P4	.0-1.1-1(BL)
Dimensions	3.5×45×30.5	5			5.2×48.8×35.25		6.2×56.1×	35.25
IEC rated voltage	500 V				800 V			
IEC rated current	17.5 A/1.5 mm	n² (SOL),	13.5 A/1.0 r	nm² (STR)	$24~\text{A}/2.5~\text{mm}^2~\text{(SOL)},~17.5~\text{A}/1.5~\text{mm}^2~\text{(STR)}~~32~\text{A}/4.0~\text{mm}^2~\text{(SOL)},~24~\text{A}/2.5~\text{mm}^2~\text{(STR)}$			nm² (SOL), 24 A/2.5 mm² (STR)
Usage Group (UG)	B, C D		1		B, C			
UL rated voltage		1-150 V	151-300 V	301-600 V	600 V			
UL rated current	10 A (STR) 10	, ,	10 A	5 A	20 A/AWG12 (SOL),	15 A/AWG14 (STR)	30 A/AW0	G10 (SOL), 20 A/AWG12 (STR)
Dielectric strength	1,890 VAC for (leakage curtility) -40 to 55°C	rent: 1 m		ion or loing	,	(leakage current: 1 m.	A max.)	
Operating temperature range Operating humidity range	-40 to 55°C	(with 110	conuensat	ion or icing	)			
Compliant standards	cULus (UL 1	059) and	1 IFC 6094	7-7-1				
Insertion durability	50 times	oooj and		, , ,				
Vibration resistance		z Acceler	ation 50m/	s² for 80 mi	in each in X, Y, and Z	directions		
Shock resistance	500 m/s <sup>2</sup> 11							
End Cover	XW5E-P1.5-				XW5E-P2.5-1.1-1		XW5E-P4	.0-1.1-1
Special tool	XW4Z-00B							
Applicable nameplates	XW5Z-P1.5LB□ or commercially available nameplate with 9.5 mm width and 0.5 mm thickness				XW5Z-P2.5LB□ or commercially available nameplate with 9.5 mm width and 0.5 mm thickness			.0LB□ or commercially available e with 9.5 mm width and 0.5 mm
Applicable Short Bars	XW5S-P1.5-	-□ (□: Po	oles = 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)
Weight	Approx. 3.3	g			Approx. 6.3 g	<u> </u>	Approx. 8	.2 g
Appearance and internal wiring	2 tiers, 1:1			r, 1:2	3,111	1 tier, 2:2		
Applicable wire sizes	0.08 to 1.5 m (Stranded wi Solid wire: 0. AWG28 to A	ires: 0.08		1 <sup>2</sup> ,				
Model	XW5T-P1.5-	·1.1-2(BL	.)		XW5T-P1.5-1.2-1(BL)		XW5T-P1	.5-2.2-1(BL)
Dimensions	3.5×65.7×41	1.1			3.5×54.1×30.5		3.5×63.2×30.5	
IEC rated voltage	500 V							
IEC rated current	17.5 A/1.5 m	nm² (SOL	_), 13.5 A/1	, ,	R)			
Usage Group (UG)	B, C			D		454.00034		204 200 1/
UL rated voltage	300 V	40 4 15-	-D'	51-150 V				301-600 V
UL rated current	15 A (SOL),	•		,	DL), 10 A (STR) 10 A			5 A
Dielectric strength	1,890 VAC fo		•		,			
Operating temperature range	-40 to 55°C	(with no	condensat	ion or icing	)			
Operating humidity range	5% to 95%	050) and	1 I C 6004	771				
Compliant standards Insertion durability	cULus (UL 1 50 times	oos) and	110 0094	,-,-1				
Vibration durability		z Δooolo-	ation 50m/	e <sup>2</sup> for 90 m	in each in X, Y, and Z	directions		
Shock resistance	500 m/s <sup>2</sup> 11					un conorib		
End Cover	XW5E-P1.5-		ii ii o dilec	aona o unte	XW5E-P1.5-1.2-1		XW5E-P1	5-2 2-1
Special tool	XW4Z-00B	1.1-2			AVVOL-F 1.0-1.2-1		AVVOE-PI	.v
Applicable nameplates		B2			XW57-P1 5I B or con	nmercially available nam	enlate with 0	5 mm width and 0.5 mm thickness
• • • • • • • • • • • • • • • • • • • •	XW5Z-P1.5LB2				XW5Z-P1.5LB□ or commercially available nameplate with 9.5 mm width and 0.5 mm to		main and 0.0 min unonie55	
Applicable Short Bars	XW5S-P1.5-□ (□: Poles = 2, 3, 4, 5 or 10)		4.5 or 10\			Approx 4.0 m		
Applicable Short Bars Weight	XW5S-P1.5- Approx. 6.6	•	oles = 2, 3,	4, 5 or 10)	Approx. 4.1 g		Approx. 4	.8 a

#### **Grounding Terminal Blocks**

•			
Appearance and internal wiring	1 tier, 1:1	1 tier, 1:1	1 tier, 1:1
Applicable wire sizes	0.08 to 1.5 mm <sup>2</sup> (Stranded wires: 0.08 to 1.5 mm <sup>2</sup> , Solid wire: 0.14 to 1.5 mm <sup>2</sup> ) AWG28 to AWG14	0.14 to 4.0 mm <sup>2</sup> (Stranded wires: 0.14 to 2.5 mm <sup>2</sup> , Solid wire: 0.14 to 4.0 mm <sup>2</sup> ) AWG26 to AWG12	0.2 to 6.0 mm <sup>2</sup> (Stranded wires: 0.2 to 4.0 mm <sup>2</sup> , Solid wire: 0.2 to 6.0 mm <sup>2</sup> ) AWG24 to AWG10
Model	XW5G-P1.5-1.1-1	XW5G-P2.5-1.1-1	XW5G-P4.0-1.1-1
Dimensions	3.5×45×30.5	5.2×48.8×35.25	6.2×56.1×35.25
IEC rated voltage	500 V	800 V	
Operating temperature range	-40 to 55°C (with no condensation or icing)		
Operating humidity range	5% to 95%		
Compliant standards	cULus (UL 1059) and IEC 60947-7-2		
Insertion durability	50 times		
Vibration resistance	10 to 150 Hz Acceleration 50m/s² for 80 min	n each in X, Y, and Z directions	_
Shock resistance	500 m/s <sup>2</sup> 11 ms, each in 6 directions 5 time	S	
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	XW5Z-P1.5LB□ or commercially available nameplate with 9.5 mm width and 0.5 mm thickness	XW5Z-P2.5LB $\square$ or commercially available nameplate with 9.5 mm width and 0.5 mm thickness	XW5Z-P4.0LB□ or commercially available nameplate with 9.5 mm width and 0.5 mm thickness
Applicable Short Bars	XW5S-P1.5- $\square$ ( $\square$ : Poles = 2, 3, 4, 5 or 10)	XW5S-P2.5- $\square$ ( $\square$ : Poles = 2, 3, 4, 5 or 10)	XW5S-P4.0-□ (□: Poles = 2, 3, 4, 5 or 10)
Weight	Approx. 4.7 g	Approx. 9.9 g	Approx. 11.7 g
Appearance and internal wiring	2 tiers, 1:1	1 tier, 1:2	1 tier, 2:2
	2 tiers, 1:1  0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14	1 tier, 1:2	1 tier, 2:2
wiring	0.08 to 1.5 mm <sup>2</sup> (Stranded wires: 0.08 to 1.5 mm <sup>2</sup> , Solid wire: 0.14 to 1.5 mm <sup>2</sup> )	1 tier, 1:2	1 tier, 2:2
wiring Applicable wire sizes	0.08 to 1.5 mm <sup>2</sup> (Stranded wires: 0.08 to 1.5 mm <sup>2</sup> , Solid wire: 0.14 to 1.5 mm <sup>2</sup> ) AWG28 to AWG14	•	0-010-0
Applicable wire sizes	0.08 to 1.5 mm <sup>2</sup> (Stranded wires: 0.08 to 1.5 mm <sup>2</sup> , Solid wire: 0.14 to 1.5 mm <sup>2</sup> ) AWG28 to AWG14 XW5G-P1.5-1.1-2	XW5G-P1.5-1.2-1	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
Applicable wire sizes  Model  Dimensions  IEC rated voltage  Operating temperature range	0.08 to 1.5 mm <sup>2</sup> (Stranded wires: 0.08 to 1.5 mm <sup>2</sup> , Solid wire: 0.14 to 1.5 mm <sup>2</sup> ) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5x65.7x41.1	XW5G-P1.5-1.2-1 3.5×54.1×30.5	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
Applicable wire sizes  Model  Dimensions  IEC rated voltage	0.08 to 1.5 mm <sup>2</sup> (Stranded wires: 0.08 to 1.5 mm <sup>2</sup> , Solid wire: 0.14 to 1.5 mm <sup>2</sup> ) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5×65.7×41.1 500 V	XW5G-P1.5-1.2-1 3.5×54.1×30.5	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
Applicable wire sizes  Model  Dimensions  IEC rated voltage  Operating temperature range	0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5×65.7×41.1 500 V -40 to 55°C (with no condensation or icing)	XW5G-P1.5-1.2-1 3.5×54.1×30.5	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
Applicable wire sizes  Model Dimensions IEC rated voltage Operating temperature range Operating humidity range	0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5x65.7x41.1 500 V -40 to 55°C (with no condensation or icing) 5% to 95% cULus (UL 1059) and IEC 60947-7-2 50 times	XW5G-P1.5-1.2-1 3.5x54.1x30.5	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
Model Dimensions IEC rated voltage Operating temperature range Operating humidity range Compliant standards	0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5x65.7x41.1 500 V -40 to 55°C (with no condensation or icing) 5% to 95% cULus (UL 1059) and IEC 60947-7-2	XW5G-P1.5-1.2-1 3.5x54.1x30.5	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
Applicable wire sizes  Model Dimensions IEC rated voltage Operating temperature range Operating humidity range Compliant standards Insertion durability	0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5x65.7x41.1 500 V -40 to 55°C (with no condensation or icing) 5% to 95% cULus (UL 1059) and IEC 60947-7-2 50 times	XW5G-P1.5-1.2-1 3.5×54.1×30.5	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
Applicable wire sizes  Model Dimensions IEC rated voltage Operating temperature range Operating humidity range Compliant standards Insertion durability Vibration resistance	0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5×65.7×41.1 500 V -40 to 55°C (with no condensation or icing) 5% to 95% CULus (UL 1059) and IEC 60947-7-2 50 times 10 to 150 Hz Acceleration 50m/s² for 80 mi	XW5G-P1.5-1.2-1 3.5×54.1×30.5	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
Applicable wire sizes  Model Dimensions IEC rated voltage Operating temperature range Operating humidity range Compliant standards Insertion durability Vibration resistance Shock resistance	0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5×65.7×41.1 500 V -40 to 55°C (with no condensation or icing) 5% to 95% cULus (UL 1059) and IEC 60947-7-2 50 times 10 to 150 Hz Acceleration 50m/s² for 80 min 500 m/s² 11 ms, each in 6 directions 5 time	XW5G-P1.5-1.2-1 3.5x54.1x30.5  n each in X, Y, and Z directions s	XW5G-P1.5-2.2-1 3.5×63.2×30.5
Applicable wire sizes  Model Dimensions IEC rated voltage Operating temperature range Operating humidity range Compliant standards Insertion durability Vibration resistance Shock resistance End Cover	0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14 XW5G-P1.5-1.1-2 3.5x65.7x41.1 500 V -40 to 55°C (with no condensation or icing) 5% to 95% CULus (UL 1059) and IEC 60947-7-2 50 times 10 to 150 Hz Acceleration 50m/s² for 80 mil 500 m/s² 11 ms, each in 6 directions 5 time XW5E-P1.5-1.1-2	XW5G-P1.5-1.2-1 3.5x54.1x30.5  n each in X, Y, and Z directions s	XW5G-P1.5-2.2-1 3.5×63.2×30.5
Applicable wire sizes  Model Dimensions IEC rated voltage Operating temperature range Operating humidity range Compliant standards Insertion durability Vibration resistance Shock resistance End Cover Special tool	0.08 to 1.5 mm² (Stranded wires: 0.08 to 1.5 mm², Solid wire: 0.14 to 1.5 mm²) AWG28 to AWG14  XW5G-P1.5-1.1-2  3.5x65.7x41.1  500 V  -40 to 55°C (with no condensation or icing) 5% to 95% cULus (UL 1059) and IEC 60947-7-2  50 times  10 to 150 Hz Acceleration 50m/s² for 80 min 500 m/s² 11 ms, each in 6 directions 5 time XW5E-P1.5-1.1-2  XW4Z-00B	XW5G-P1.5-1.2-1 3.5x54.1x30.5  n each in X, Y, and Z directions s XW5E-P1.5-1.2-1  XW5Z-P1.5LB or commercially available	XW5G-P1.5-2.2-1 3.5×63.2×30.5

#### **Short Bars**

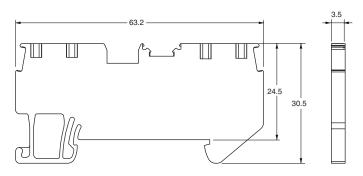
Model	XW5S-P1.5-□	XW5S-P2.5-□	XW5S-P4.0-□
Rated voltage	500 V	800 V	
Rated current	17.5 A	24 A	32 A

Dimensions (Unit: mm)

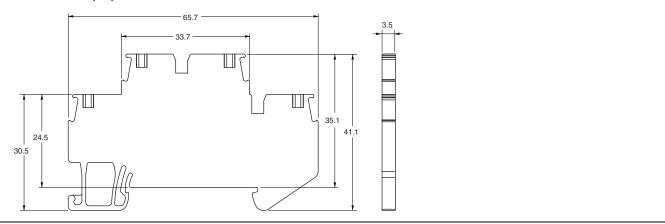
#### **DIN Track Terminal Blocks**

## XW5T-P1.5-1.1-1(BL)/XW5G-P1.5-1.1-1 XW5T-P2.5-1.1-1(BL)/XW5G-P2.5-1.1-1 **→** 5.2 **→** 48.8 45 -24.5 29.25 30.5 35.25 XW5T-P1.5-1.2-1(BL)/XW5G-P1.5-1.2-1 XW5T-P4.0-1.1-1(BL)/XW5G-P4.0-1.1-1 - 56.1 -6.2 24.5 29.25 35.25 30.5

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

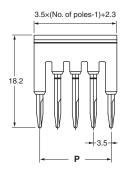


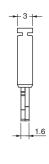
XW5T-P1.5-1.1-2(BL)/XW5G-P1.5-1.1-2



#### **Short Bars**

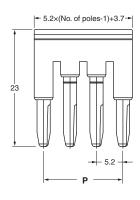
#### XW5S-P1.5-□

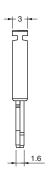




Model	P (mm)
XW5S-P1.5-2□	3.5
XW5S-P1.5-3□	7
XW5S-P1.5-4□	10.5
XW5S-P1.5-5□	14
XW5S-P1.5-10□	31.5

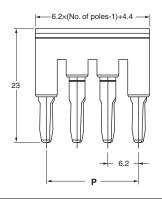
#### XW5S-P2.5-□

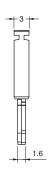




Model	P (mm)
XW5S-P2.5-2□	5.2
XW5S-P2.5-3□	10.4
XW5S-P2.5-4□	15.6
XW5S-P2.5-5□	20.8
XW5S-P2.5-10□	46.8

#### XW5S-P4.0-□

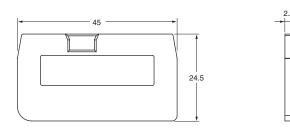


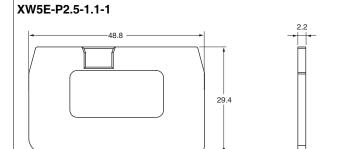


Model	P (mm)
XW5S-P4.0-2□	6.2
XW5S-P4.0-3□	12.4
XW5S-P4.0-4□	18.6
XW5S-P4.0-5□	24.8
XW5S-P4.0-10□	55.8

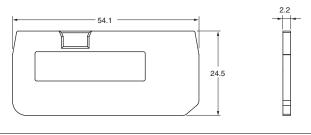
#### **End Cover**

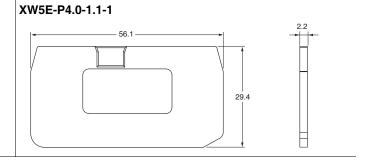
#### XW5E-P1.5-1.1-1



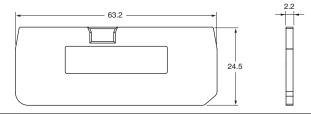


#### XW5E-P1.5-1.2-1

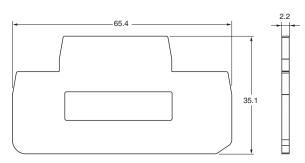




#### XW5E-P1.5-2.2-1

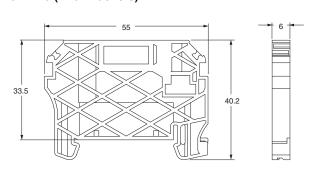


#### XW5E-P1.5-1.1-2

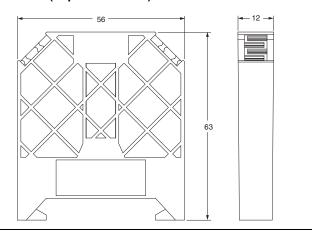


#### **End Brackets/Separator Plates**

#### 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 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 insert more than one wire into each terminal insertion hole.
- Do not install the Terminal Block upside down when mounting multiple Terminal Blocks.

Doing so may cause short circuits with the adjacent Terminal Block.

 To prevent wiring materials from smoking or ignition, use the wiring materials given in the following table.

		Stripping length		
	Recommended Wire	With Ferrules	Without Ferrules	
XW5T-P1.5-□-□□	0.08 to 1.5 mm <sup>2</sup> / AWG 28 to 14	8 mm	8 mm	
XW5T-P2.5-□-□□	0.25 to 4 mm <sup>2</sup> / AWG 24 to 12	10 mm	10 mm	
XW5T-P4.0-□-□□	0.25 to 6 mm <sup>2</sup> / AWG 24 to 10	12 mm	12 mm	

Note: Please use Ferrules with UL certification (R/C).

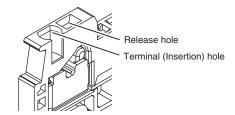
#### **Precautions for Correct Use**

#### 1. Precautions for Correct Use

- Do not drop the Terminal Block.
   Terminal Block functionality may be inhibited.
- Always attach End Cover. Not doing so may cause electrical shock.
- 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

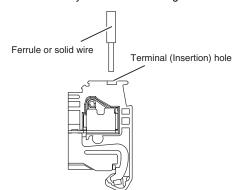
#### **Part Names of the Terminal Block**



#### **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.

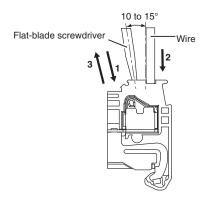
If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.



#### **Connecting Stranded Wires**

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

- 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 respond.
- 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**

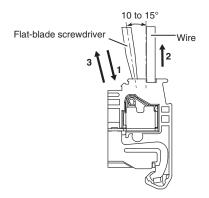
- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- To prevent short circuits, insert the stripped part of a stranded or solid wire or the conductor part of a ferrule until it is hidden inside the terminal insertion hole. (See the following diagram.)



#### 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.

- Hold a flat-blade screwdriver at an angle and insert it into the release hole.
- 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-□-□□

	cable ire	Ferrule Conductor	Recommended ferrules		
(mm²)	(AWG)	length (mm)	Manufactured by Phoenix Contact	Manufactured by Weidmuller	Manufactured by Wago
0.14	26	8	AI 0.14-8	H0.14/12	
0.25	24	8	AI 0.25-8	H0.25/12	FE-0.25-8N-YE
0.34	22	8	AI 0.34-8	H0.34/12	FE-0.34-8N-TQ
0.50	20	8	AI 0.5-8	H0.5/14	FE-0.5-8N-WH
0.75	18	8	AI 0.75-8	H0.75/14	FE-0.75-8N-GY
1.00	18	8	AI 1-8	H1.0/14	FE-1.0-8N-RD
Recommended crimp tool		CRIMPFOX6 CRIMPFOX6-F CRIMPFOX10S	PZ6 roto	Variocrimp4	

#### XW5T-P2.5-□-□□

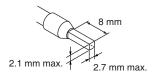
	cable ire	Ferrule Conductor			
(mm²)	(AWG)	length (mm)	Manufactured by Phoenix Contact	Manufactured by Weidmuller	Manufactured by Wago
0.25	24	10	AI 0.25-10 YE		
0.34	22	10	AI 0.34-10 TQ		
0.50	20	10	AI 0.5-10 WH	H0.5/16	FE-0.5-10N-WH
0.75	18	10	AI 0.75-10 GY	H0.75/16	FE-0.75-10N-GY
1.00	18	10	AI 1-10 RD	H1.0/16	FE-1.0-10N-RD
1.50	16	10	AI 1.5-10 BK	H1.5/16	FE-1.5-10N-BK
2.50	14	10	AI 2.5-10 BU	H2.5/16DS	FE-2.5-10N-BU
Recommended crimp tool		CRIMPFOX6 CRIMPFOX6-F CRIMPFOX10S	PZ6 roto	Variocrimp4	

#### XW5T-P4.0-□-□□

	Applicable Wire Ferrule Reco			ommended ferr	ules
(mm²)	(AWG)	length (mm)	Manufactured by Phoenix Contact	Manufactured by Weidmuller	Manufactured by Wago
0.25	24	12	AI 0.25-12 BU		
0.34	22	12	AI 0.34-12 TQ		
0.50	20	12	AI 0.5-12 WH		FE-0.5-12N-WH
0.75	18	12	AI 0.75-12 GY	H0.75/18	FE-0.75-12N-GY
1.00	18	12	AI 1-12 RD	H1.0/18	FE-1.0-12N-RD
1.50	16	12	AI 1.5-12 BK	H1.5/18D	FE-1.5-12N-BK
2.50	14	12	AI 2.5-12 BU	H2.5/19D	FE-2.5-12N-BU
4.00	12	12	AI 4-12 GY	H4.0/20D	FE-4.0-12N-GY
Recommended crimp tool		CRIMPFOX6 CRIMPFOX6-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.

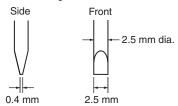
2. Make sure that the ferrule processing dimensions conform to the following figure.



#### **Recommended Flat-blade Screwdriver**

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

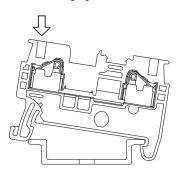
The following table shows manufacturers and models as of 2015/Dec.



Model	Manufacturer
XW4Z-00B	Omron
ESD0.40×2.5	Wera
SZF 0.4×2.5	Phoenix Contact
0.4×2.5×75 302	Wiha
AEF.2.5×75	Facom
210-719	Wago
SDI 0.4×2.5×75	Weidmuller

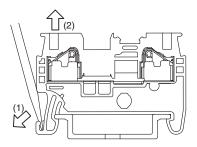
## **5. Mounting to DIN Track/Removing from DIN Track Mounting Method**

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, so not apply excessive force to the Terminal Block. Doing so may damage it.



#### 6. Storage

Store the Terminal Block within the following temperature range. -40 to  $85^{\circ}\text{C}$  (with no condensation or icing)

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