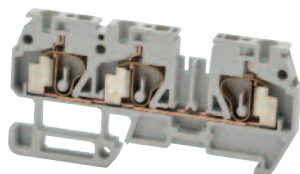


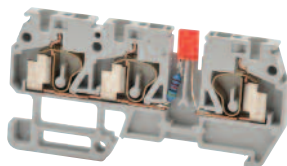
Screwless One-Connection to Two-Connection Terminal Blocks

Unlike screw terminal blocks, screwless terminal block spring clamps are designed to clamp a single wire. If your application requires multiple wires to be tied together, we offer multiple versions, including **one-to-two** and **two-to-two** models.

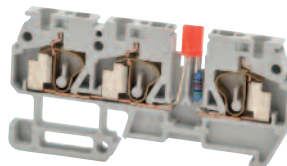
These versions allow multiple wires to be connected together by way of multiple spring clamps. LED and diode variations are also available in this style.



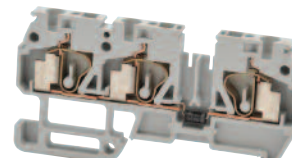
DN-Q12-1-2-A
(Euro QM2.5/35)



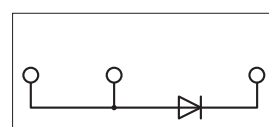
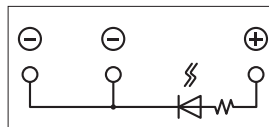
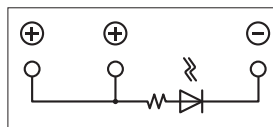
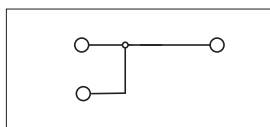
DN-Q12-1-2L1-A
(Euro QM2.5/35)



DN-Q12-1-2L2-A
(Euro QM2.5/35)



DN-Q12-1-2DR-A
(Euro QM2.5/35)



One-Connection to Two-Connection Common Point Screwless Terminal Blocks

	Part Number	Price	Pcs/Pkg	Part Number	Price	Pcs/Pkg	Part Number	Price	Pcs/Pkg	Part Number	Price	Pcs/Pkg
Gray Terminal Block	DN-Q12-1-2-A	<--->	25	DN-Q12-1-2L1-A	<--->	10	DN-Q12-1-2L2-A	<--->	10	DN-Q12-1-2DR-A	<--->	10
Blue Terminal Block	DN-Q12B-1-2-A	<--->	25									
Description	One-connection to two-connection screwless terminal block for 24-12 AWG wire			One negative connection to two positive connection screwless terminal block for 24-12 AWG wire. LED installed for visual circuit indication			One positive connection to two negative connection screwless terminal block for 24-12 AWG wire. LED installed for visual circuit indication			One-connection to two-connection screwless terminal block for 24-12 AWG wire. 1N4007 reverse bias diode installed for circuit protection (see 1N4007 Diode Information table on following page).		

Specifications

UL Approval	600V	20A	24-12AWG	600V	20A	24-12AWG	600V	20A	24-12AWG	600V	1A Diode	24-12AWG
CSA Approval	600V	20A	24-12AWG	600V	20A	24-12AWG	600V	20A	24-12AWG	600V	1A Diode	24-12AWG
VDE Approval	630V	24A	2.5mm ²	630V	24A	2.5mm ²	630V	24A	2.5mm ²	630V	1A Diode	2.5mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC			LVD 2006/95/EC			LVD 2006/95/EC		
Agency File	UL: E179129			UL: E179129			UL: E179129			UL: E179129		
LED Voltage				12 - 24V AC/DC. 3.4 kΩ			12 - 24V AC/DC. 3.4 kΩ					
Wire Strip Length	0.47"(12mm)			0.47"(12mm)			0.47"(12mm)			0.47"(12mm)		
Density	60 pcs./ft. (200/m)			60 pcs./ft. (200/m)			60 pcs./ft. (200/m)			60 pcs./ft. (200/m)		
Operating Temperature	Ambient air temperature: -13°F to 104°F (-25°C to 40°C) Relative humidity: 50% max at 104°F (40°C); 90% max at 68°F (20°C)											
SCCR	10 kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components											

Accessories

Accessory	Part Number			Price	Pcs/Pkg
DIN Rail	DN-R35S1			<--->	10
	DN-R35S1-2			<--->	2
End Bracket	DN-EB35			<--->	50
	DN-EB35MN			<--->	20
	DN-EB35-A or DN-QEB35			various	50
	DN-EB35-A-10 or DN-QEB35-10			various	10
End Cover	DN-QEC12-1-2			<--->	25
Jumper	DN-2J2Y	<--->	100	N/A	N/A
	DN-3J2Y	<--->	100		
	DN-24J2Y	<--->	5		
Cutting Tool	DN-J2CUT			<--->	1
Marking Tags	DN-QL Series			<--->	500
Angled Support Bracket	DN-ASB1			<--->	50

For more information on accessories, see the DINnectors Accessories section of this chapter.

Screwless One-Connection to Two-Connection Terminal Blocks

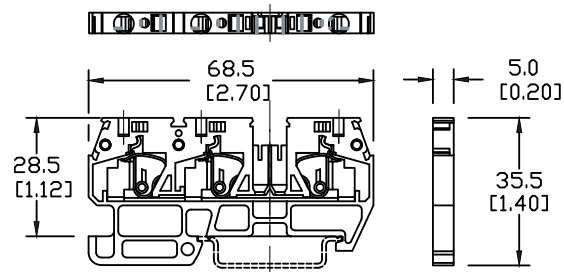
1N4007 Diode Information		
RMS Reverse Voltage*	V (Rrms)	600V
Average Rectified Forward Current Single Phase, Resistive Load, 60 Hz	I (O)	1.0 A
Non-Repetitive Peak Surge Current (Surge applied at rated load)	I (FSM)	30 A (1 cycle)
Maximum Forward Voltage Drop [I (F) = 1.0 A]	V (F)	1.1 V
Maximum Reverse Current	I (R)	10 μ A

* The maximum reverse voltage rating of the diode alone is 1000V, but should not exceed the maximum 600V rating of the terminal block.

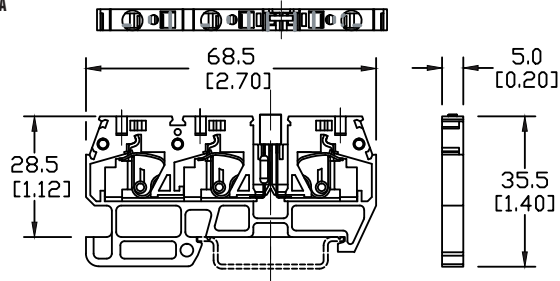
Dimensions

mm [inches]

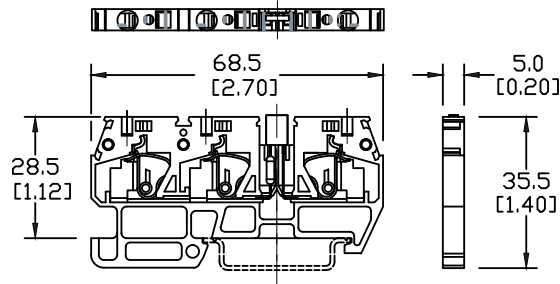
DN-Q12-1-2-A



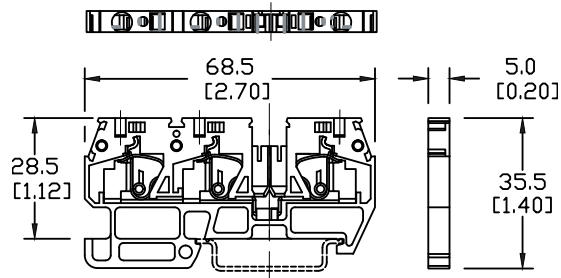
DN-Q12-1-2L1-A



DN-Q12-1-2L2-A



DN-Q12-1-2DR-A



Screwless Terminal Blocks Overview

Why go screwless?

Screwless clamping technology offers several benefits:

- **Speed:** On average, screwless connections can be made in half the time of screw type connections, cutting installation labor costs in half.
- **Ease:** No need for twisting and turning screws, so screwless terminal blocks are much easier on the installer's hands and arms. Also, wiring from the top of the terminal blocks allow installers to accurately and reliably see the wire fully inserted into the spring clamp.
- **Safety:** Never have a problem with faulty connections from loose screws again! Meets the same UL, CSA, and IEC standards as screw-type terminal blocks.
- **Maintenance-free:** The screwless spring clamp conforms to the wire with constant tension, making it maintenance-free.

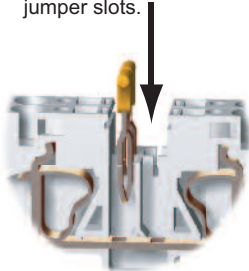
Are there any trade-offs of going screwless versus screw-type?

Unless you need to clamp multiple wires to the same connection point, the answer is no. If you do, then there may be a slight trade-off in requiring more panel space than with screw terminal blocks. Unlike screw terminal blocks, screwless terminal block spring-clamps are designed to clamp a single wire, only. This is why multiple versions exist like the "one-to-two" or "two-to-two." These versions allow multiple wires to be connected together via multiple spring clamps.

How do the jumpers work?

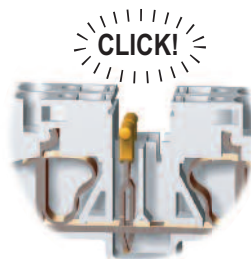
1

Properly align jumper bar with terminal block center jumper slots.

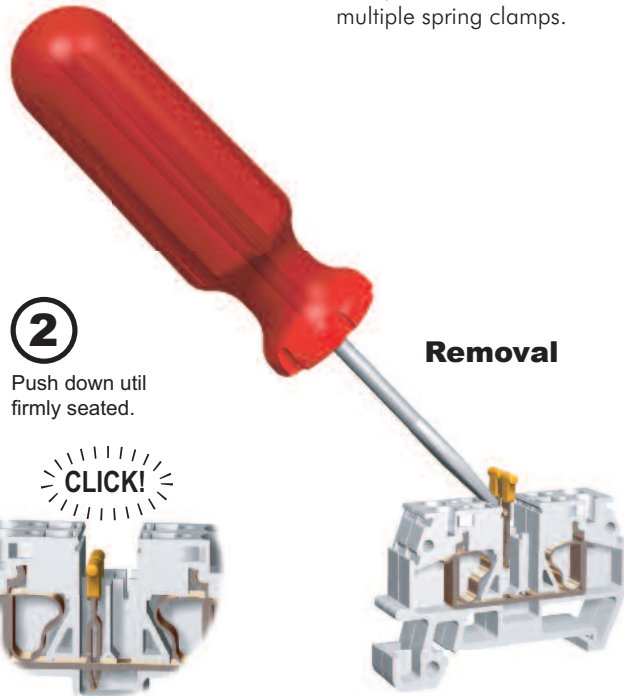


2

Push down until firmly seated.

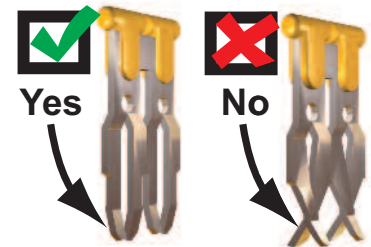
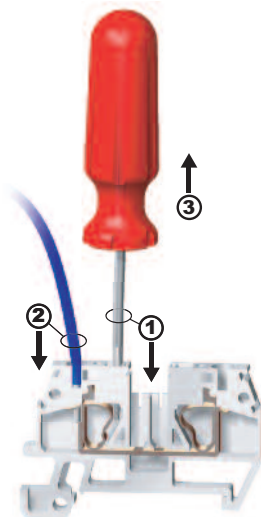


Removal



How does it work?

Well, it's pretty simple: Push, Insert, Release. Just push your screwdriver into the spring clamp (a rectangular shaped hole) to open the spring clamp; insert the stripped wire into the clamp (a circular shaped hole), and pull out your screwdriver to release the clamp against the wire. That's it. The connection is made.



Yes = Good, acceptable jumper

No = Bad, damaged jumper

Screwless DINnectors Cross Reference

Allen-Bradley Part Number	Screwless DINnectors Part Number
1492-R4	DN-Q10-A
1492-R4-B	DN-Q10B-A
1492-R3	DN-Q12-A
1492-R3T	DN-Q12-1-2-A
1492-R3Q	DN-Q12-2-2-A
1492-R3-B	DN-Q12B-A
1492-R3T-B	DN-Q12B-1-2-A
1492-R3Q-B	DN-Q12B-2-2-A
1492-R6	DN-Q8-A
1492-R6-B	DN-Q8B-A
1492-RD3	DN-QD12-A
1492-RD3-B	DN-QD12B-A
1492-RD3C	DN-QD12X-A
1492-TC4	DN-QEC10
1492-RG4	DN-QG10
1492-RG3	DN-QG12
1492-RG6	DN-QG8
1492-SM5x9	DN-QL100
1492-SM5x9	DN-QLB
1492-RG3T	DN-QG12-1-2
1492-RG3Q	DN-QG12-2-2
1492-RKD3	DN-QKBD12-A

Phoenix Part Number	Screwless DINnectors Part Number
3031364	DN-Q10-A
3031377	DN-Q10B-A
3031212	DN-Q12-A
3031241	DN-Q12-1-2-A
3031306	DN-Q12-2-2-A
3031225	DN-Q12B-A
3031254	DN-Q12B-1-2-A
3031319	DN-Q12B-2-2-A
3031487	DN-Q8-A
3031490	DN-Q8B-A
3031270	DN-QD12-A
3031283	DN-QD12B-A
3031539	DN-QD12X-A
3030420	DN-QEC10
3031380	DN-QG10
3031238	DN-QG12
3031500	DN-QG8
1050211	DN-QL100
1050004	DN-QLB
3104013	DN-QG12-1-2
3031267	DN-QG12-2-2
3031322	DN-QKBD12-A

Wago Part Number	Screwless DINnectors Part Number
282-901	DN-Q10-A
282-904	DN-Q10B-A
280-901	DN-Q12-A
280-681	DN-Q12-1-2-A
280-833	DN-Q12-2-2-A
280-904	DN-Q12B-A
280-684	DN-Q12B-1-2-A
280-834	DN-Q12B-2-2-A
284-601	DN-Q8-A
284-604	DN-Q8B-A
281-619	DN-QD12-A
281-629	DN-QD12B-A
N/A	DN-QD12X-A
282-325	DN-QEC10
282-907	DN-QG10
281-907	DN-QG12
284-907	DN-QG8
N/A	DN-QL100
209-xxx	DN-QLB
279-687	DN-QG12-1-2
279-837	DN-QG12-2-2
280-870	DN-QKBD12-A

Weidmuller Part Number	Screwless DINnectors Part Number
163205	DN-Q10-A
163206	DN-Q10B-A
160851	DN-Q12-A
160854	DN-Q12-1-2-A
160857	DN-Q12-2-2-A
160852	DN-Q12B-A
160855	DN-Q12B-1-2-A
160858	DN-Q12B-2-2-A
160862	DN-Q8-A
160863	DN-Q8B-A
167430	DN-QD12-A
167863	DN-QD12B-A
168999	DN-QD12X-A
163209	DN-QEC10
163208	DN-QG10
160864	DN-QG12
160867	DN-QG8
161000	DN-QL100
161000	DN-QLB
160865	DN-QG12-1-2
160866	DN-QG12-2-2
160868	DN-QKBD12-A