

DINnectors™ - The quality is in the details!

Virtually vibration-proof clamping system

- Provides excellent resistance to screw loosening caused by vibration or shock
- Large contact area due to "V" formed bottom portion of clamp
- Proven design - millions in use today

Internal jumpers

- Frees up valuable wiring space

Protective moldings

- Safe design prevents accidental contact with live parts.

Marking system

- Inclined at a 45° angle for easy reading
- Can be marked by hand or preprinted from 0-1000

Funneled wire entry

- Allows for fast and easy insertion of the wire into the clamp
- Closed on all four sides for safety

Wire stops

- Stops wires from being inserted too far

Snap-on solid foot

- Robust design allows for easy assembly and removal of the terminal block from a DIN rail with a screwdriver

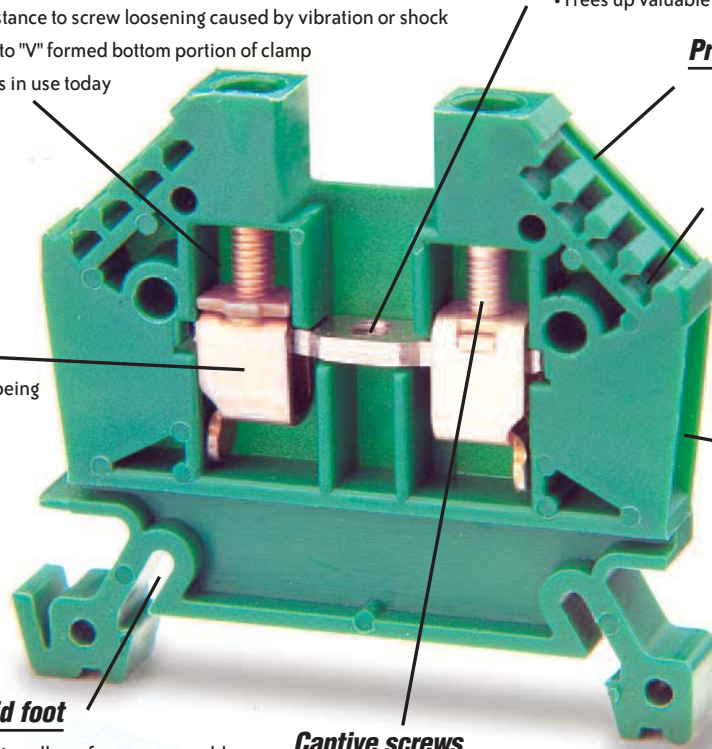
Captive screws

- Screws cannot be dropped or lost during wiring
- Supplied fully backed out and ready to wire

Agency Approvals



* UL rating for copper wire only



1 Quality materials

DINnectors are manufactured from Polyamide 6.6 plastic with very good electrical, mechanical, and chemical properties. This UL-approved material has a flammability rating of V2 (self-extinguishing) according to UL94. It has a continuous upper temperature limit of 100°C, and a lower temperature limit of -50°C. The Comparative Tracking Index is CTI>600, with an average humidity absorption of 3-4 percent.

DINnectors screws and clamps are manufactured from hardened steel plated with a zinc-dichromate corrosion-resistant finish. The current bars are made from a copper alloy with a tin/lead plating.

2 Self-locking clamps

DINnectors terminal blocks are designed with self-locking vibration-resistant clamps, unlike many of our competitors' products. When tightening the screw, the clamp travels up like an elevator, and presses the wire against the conductor. When the wire is fully compressed, the clamp's upper thread overlap springs open and locks the screw threads, preventing the screw from loosening. This "spring-effect" ensures a reliable contact that is virtually impervious to vibration and temperature cycling. When adequately tightened, DINnectors terminal block screw clamps should never require re-tightening.

3 High-contact pressure

Continuous, high-contact pressure is essential for a reliable connection. Even the best conductors give poor results if the contact pressure is insufficient. Low-contact pressure causes aggravating and dangerous intermittent connections. DINnectors terminal block screw clamp connection technology offers the highest contact pressure available. DINnectors 12 AWG terminal block produces a high contact force of approximately 169 ft/lbs (750 Nm).

4 Low voltage drop

Many electrical engineers consider voltage drop values across the connection points to be an excellent measure of the quality of the terminal block. Low voltage drop means low contact resistance, which indicates a stable and quality contact between the conductor and the terminal block. DINnectors terminal blocks distinguish themselves with very low voltage drop values, which are well under the limits established by various international standards.

5 Gas-tight connections

According to DIN standard 41640 part 76, terminal blocks must be tested in a specific, aggressive gas-filled environment. After these tests, DINnectors terminal block contact surfaces showed no signs of corrosion, even with small conductors.

Save BIG with our terminal blocks

AutomationDirect
DINnectors[®]
terminal connector



Allen-Bradley
terminal connector



Weidmuller
terminal connector



Phoenix Contact
terminal connector

Why are you paying more for other brands?

All the terminal blocks shown here look pretty much the same. So with our quality features and great prices, it should be easy to choose DINnectors.

And of course, if you're not completely satisfied with DINnectors for any reason, use our **30-day money-back guarantee** to return them.

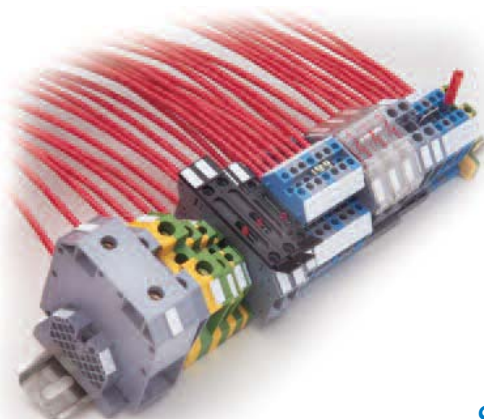
CHECK OUT OUR PRICES

Terminal Connectors	AutomationDirect DINnector	VS.	A-B	Weidmuller	Phoenix Contact
Terminal block 10 AWG DN-T10-A	\$0.44		\$2.84	\$1.27	\$0.88
Terminal block 1/4" fuse DN-F6	\$3.72		\$14.40	\$9.25	\$8.72
Three-level terminal block DN-TL14	\$1.64		\$8.41		\$8.01
DINrail (2 m) DN-R35S1	\$5.60		\$21.80 *	\$16.97	\$23.90

* sold in 1m lengths

Prices may vary by dealer. Many other part numbers are available from all vendors. All prices are U.S. published prices. AutomationDirect prices from April 2013 Price List. A-B prices from www.rockwellautomation.com/en/e-tools 2/28/13. Phoenix Contact prices from www.mouser.com 2/28/13. Weidmuller prices from www.digkey.com 2/20/12.

Pricing for comparison purposes only. DINnectors terminal blocks are sold in packages, not individually.



DINnectors[®] Specifying a Terminal Block System



Step 1: Select the type

Choose from the many types of terminal blocks as required for your system: screw-type or screwless, feed-through, multi-level, mini, ground, fuse, disconnect or direct mount.

Step 2: Determine the electrical specifications

Determine your requirements for the maximum wire size, current, and voltage for each terminal block.

Step 3: Select the accessories

Choose between deep or shallow then select the appropriate end cover(s) and end brackets. Then decide if you would like to use internal jumpers, top covers, angled support brackets, test plugs, separators, or blank or printed marking tags.

Step 4: Calculate the rail length

Calculate the density per foot of each type and quantity of terminal block in your assembly to determine the total rail length. Remember to add 1/2 inch for each rail end to accommodate rail mounting screws. Also add 0.0008" (0.2 mm) tolerance per terminal, plus the width of the end brackets, end covers, and any separators.

Step 5: Place your order!

Call 1-800-633-0405 or visit our Web site at www.automationdirect.com to order.

Screw-type DINnectors At a Glance

Feed-through Terminal Blocks

Feed-through terminal blocks are available in a number of colors and wire size options to ensure flexibility and ease of installation for your DIN-rail mounted connection system.



DN-T12-A

DN-T10-A

DN-T8

DN-T6

DN-T4

Multi-level/Sensor Terminal Blocks

Double-level terminal blocks offer twice the wiring density of feed-through blocks. Triple-level blocks enable either high-density wiring or simplified, low-cost sensor wiring.



DN-D10-A

DN-D10X-A

DN-D10-LED-A

DN-D10R-A

DN-TL14-A

Ground Terminal Blocks

Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail, thus allowing the rail to function as a ground bus bar.



DN-G10

DN-G8

DN-G6

DN-G4

DN-G1/0

Circuit Protection Blocks

Fuse blocks provide easily-replaceable fuse protection for PLC output devices or modules. They are available for 1/4", 5 mm Midget and Class CC size fuses.



DN-F6

DN-F6L

DN-F10

DN-F10L

DN-FEx
plus DN-DPx

Disconnect Terminal Blocks

Convenient operation allows fast circuit disconnection without rewiring.



DN-DIS10

DN-KBD12

DN-DIS2

DN-DIS4

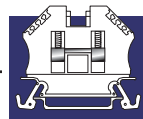
Mini Terminal Blocks

Mini terminal blocks are used in applications with extremely limited space requirements.



DN-M10-A

DN-MG10



DINnectors™



DN-T1/0



DN-T3/0

DINnector standard terminal blocks

- Polyamide 6.6 plastic molding
- Zinc dichromate-plated, hardened steel screws and clamps
- Nickel-plated, copper current bar
- Single or double-level blocks

Triple-level terminal blocks

- Four types, with and without LED
- Extremely compact 5 mm thick design
- 300V, 10A, 26 to 14 AWG
- UL/CSA/CE approvals

Colored terminal blocks

- Used for specially identifying circuits for ease of wiring and troubleshooting
- Available in standard gray, as well as blue, black, red, yellow, green, orange and white for the DN-T12-A, DN-T10-A and DN-T8 feed-through terminals. The DN-D10-A double-level terminal blocks are available in all of the above colors except white.

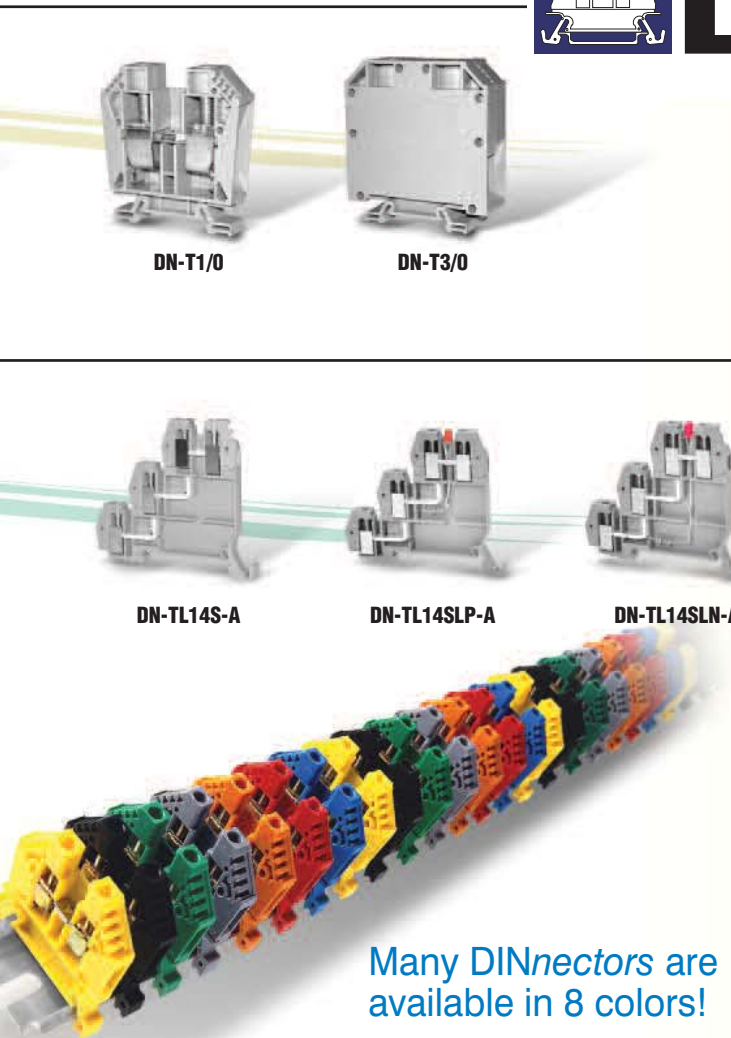
Circuit Protection blocks

- Quick and easy DIN-rail mounting
- Available with long lasting neon or LED indicator light for quick troubleshooting
- UL/CSA approvals for supplementary protection; CE approved

Specialty blocks

- Thermocouple blocks
- Plug-in blocks
- Disconnect blocks
- Mini terminal blocks

For an overview of screwless DINnectors, go to page 29-35



Many DINnectors are available in 8 colors!

Thermocouple Blocks

Single clamp design allows excellent connection to all types of thermocouple wiring.



DN-THERM1



DN-THERM2

Plug-in Blocks

Plug-in terminal blocks allow for quicker installation of field device wiring and reduces the chance for incorrect wiring.



DN-EMXM1

(plugs sold separately)



DN-EMXDV

(plugs sold separately)

DINnectors Component Overview (screw type)

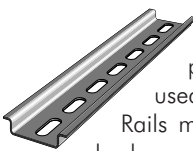
DINnectors Terminal Blocks



The screw-type DINnectors series includes standard, double and triple level terminal blocks, some in up to seven colors. Fuse blocks are also available.

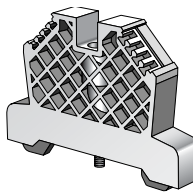
Accessories

Mounting rail (required)



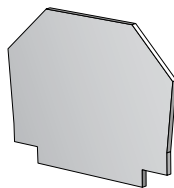
Allows multiple blocks to be mounted to a panel, and may also be used as a ground bus bar. Rails meet international standards and are supplied in 3'3"(1m) lengths, slotted steel.

End bracket (required)



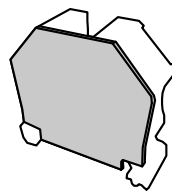
Used to add rigidity to a terminal block assembly and prevent sliding along the rail by mounting one polyamide end bracket at each end of an assembly. End brackets attach directly to the DIN rail by means of a clamping foot and can accept marking tags to serve as a group marker.

End cover (required)



Provides electrical insulation for the exposed metal components of the last terminal block in an assembly. Interlocking pins secure the polyamide end cover to the terminal block while allowing easy insertion and removal. When the size of blocks change in an assembly, an end cover is required to insulate the open side of the block.

Separator



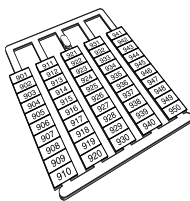
Used to electrically or visually separate groups of terminal blocks, or to electrically insulate adjacent internal jumpers. Separators project beyond the terminal block on all sides.

Jumpers



Used to electrically interconnect two or more consecutive terminal blocks, without reducing the wiring capacity of the blocks. Jumpers are available in two, three, four, and longer pole configurations. Jumpers are made of electrolytic copper with a corrosion-resistant nickel plating. Insulated double jumpers reduce the risk of accidental shock.

Terminal Marking tags



Provides circuit organization and identification of the terminals. Terminal marking tags are available either blank or preprinted, and fit onto the terminal blocks.

Wire Marking tags



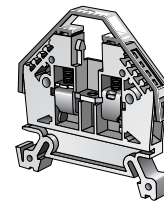
Provides circuit organization and identification of the wires. Wire marking tags are available with blank tags and clear tag holders for wire sizes from 26 AWG to 5AWG.

Angled support bracket



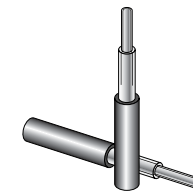
Raises and tilts the mounting rail above the panel for easier and faster wiring.

Top cover



Certain VDE regulations require the use of terminal block covers. The transparent polycarbonate covers are printed with a warning arrow and the international danger symbol, allowing the marking tag area and jumpers to remain visible after installation.

Test plugs



Used for hands-free circuit troubleshooting and testing, the test plugs are inserted into the jumper hole of the terminal block current bar. These plug-in style devices cannot be used when jumpers are installed. Plug diameter is 2.8 mm.

Wiring Accessories & Tools

We offer a wide selection of wire ferrules and crimp terminals, stripping and crimping tools, jumper cutters in the "Wiring Accessories" section of this chapter. An excellent variety Wera brand screwdrivers as well as RUKO cutting tools can be found in the tools chapter of our catalog.

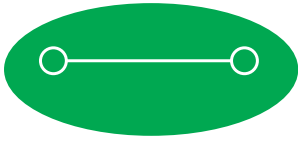


Standards

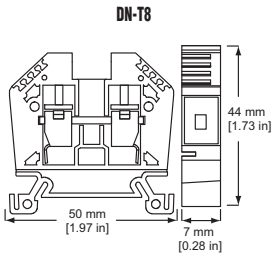
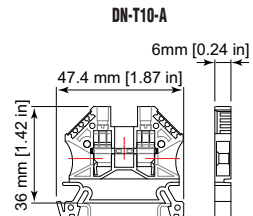
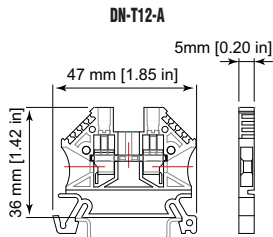
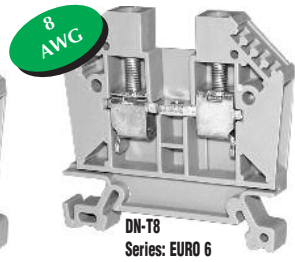
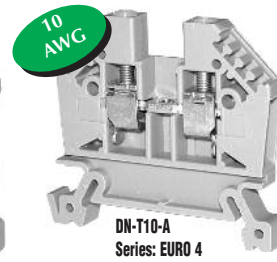
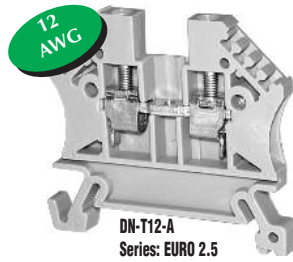
DINnector terminal blocks are tested to the following standards:

- EN/IEC 60947-1
- EN/IEC 60947-7-1
- IEC 60947-7-2
- IEC 60947-7-3
- CSA C 22.2
- UL 1059
- UL 486A-486B
- UL 486E

Feed-through Terminal Blocks



Feed-through terminal blocks provide the means to connect two wires together, and are available in sizes suitable for up to 8 AWG wire.



	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Block	DN-T12-A	100	<-->	DN-T10-A	100	<-->	DN-T8	50	<-->
Blue Term Block	DN-T12B-A	100	<-->	DN-T10B-A	100	<-->	DN-T8B	50	<-->
Brown Term Block	DN-T12BR-A	100	<-->	DN-T10BR-A	100	<-->	n/a	n/a	n/a
Black Term Block	DN-T12BLK-A	100	<-->	DN-T10BLK-A	100	<-->	DN-T8BLK	50	<-->
Green Term Block	DN-T12GRN-A	100	<-->	DN-T10GRN-A	100	<-->	DN-T8GRN	50	<-->
Orange Term Block	DN-T12ORG-A	100	<-->	DN-T10ORG-A	100	<-->	DN-T8ORG	50	<-->
Red Term Block	DN-T12RED-A	100	<-->	DN-T10RED-A	100	<-->	DN-T8RED	50	<-->
Yellow Term Block	DN-T12YEL-A	100	<-->	DN-T10YEL-A	100	<-->	DN-T8YEL	50	<-->
White Term Block	DN-T12W-A	100	<-->	DN-T10W-A	100	<-->	DN-T8W	50	<-->

Feed-through Terminal Blocks - Specifications

UL Approval*	600V	20A	24-12AWG	600V	30A	24-10AWG	600V	50A	22-8AWG
CSA Approval	600V	20A	24-12AWG	600V	30A	24-10AWG	600V	50A	22-8AWG
VDE Approval	800V	24A	2.5mm ²	800V	32A	4mm ²	800V	41A	6mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC			LVD 2006/95/EC		
Agency File #	UL E179129			UL E179129			UL E179129		
Wire Strip Length	0.39 in [10 mm]			0.39 in [10 mm]			0.47 in [12mm]		
Tightening Torque	4lb-in [0.5 N-m]			7lb-in [0.8 N-m]			10.6 lb-in [1.2 N-m]		
Density	60 pcs/ft [200/m]			50 pcs/ft [166/m]			43 pcs/ft [142/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								

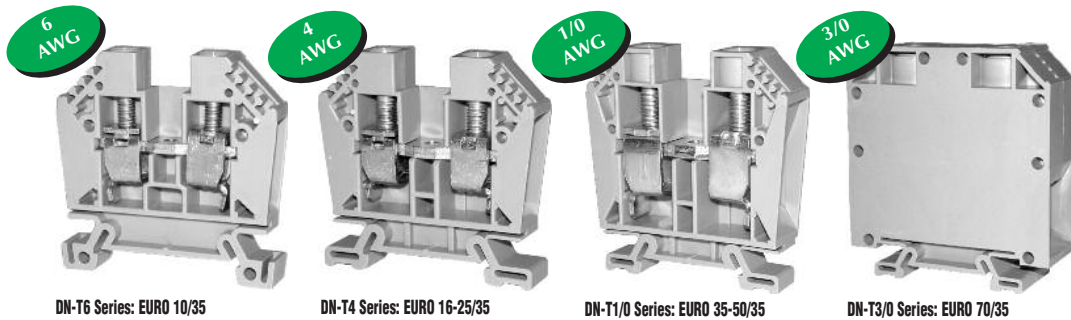
* For copper wire only

Accessories

	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	<i>DN-R35S1 (7.5 mm high) or DN-R35HS1 (15 mm high)</i>						10	various	
	<i>DN-R35S1-2(7.5 mm high) or DN-R35HS1-2 (15 mm high)</i>						2	various	
End Bracket	<i>DN-EB35</i>						50	<-->	
	<i>DN-EB35MN</i>						20	<-->	
	<i>DN-EB35-A or DN-QEB35</i>						50	various	
	<i>DN-EB35-A-10 or DN-QEB35-10</i>						10	various	
End Cover	<i>DN-EC1210</i>				100	<-->	<i>DN-EC86</i>	100	<-->
	<i>DN-EC1210MN</i>				25	<-->	<i>DN-EC86MN</i>	25	<-->
Separator	<i>DN-S1210</i>				100	<-->	<i>DN-S86</i>	100	<-->
	<i>DN-S1210MN</i>				25	<-->			
Jumpers / 2 pole	<i>DN-2J2Y</i>	100	<-->	<i>DN-2J4Y</i>	100	<-->			
	<i>DN-3J2Y</i>	100	<-->	<i>DN-3J4Y</i>	100	<-->			
/ 3 pole									
/ 4 pole									
/ Multi-pole	<i>DN-24J2Y - 24 pole</i>	5	<-->	<i>DN-24J4Y - 24 pole</i>	5	<-->	<i>DN-24J8 - 24 pole</i>	5	<-->
Jumper Cut Tool**	<i>DN-J2CUT</i>	1	<-->	<i>DN-J4CUT</i>	1	<-->			
Marking Tags	<i>DN-LA or DN-LT series</i>	500/100	various	<i>DN-L or DN-LT series</i>				500/100	various
Angled Support Bracket	<i>DN-ASB1</i>						50	<-->	
Top Cover	<i>DN-C12</i>	100	<-->	<i>DN-C10</i>	100	<-->	<i>DN-C86</i>	100	<-->
Test Plug, Red	<i>DN-TPR</i>				10	<-->			
Test Plug, Black	<i>DN-TPB</i>				10	<-->			

** Jumper Cutting Tools DN-JxCUT cut the applicable multi-pole jumpers and MAINTAIN THE JUMPER INSULATION

Feed-through Terminal Blocks



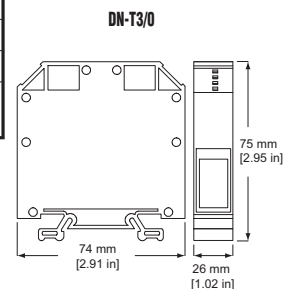
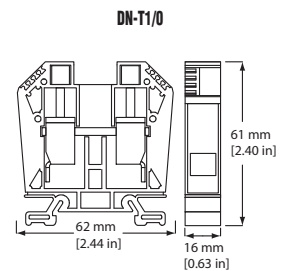
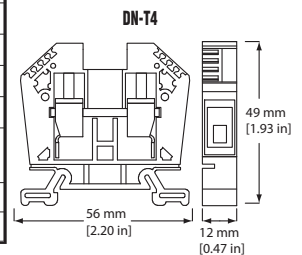
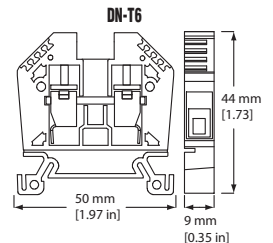
DN-T6 Series: EURO 10/35

DN-T4 Series: EURO 16-25/35

DN-T1/0 Series: EURO 35-50/35

DN-T3/0 Series: EURO 70/35

	Part Number	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Block	DN-T6	50	<--->	DN-T4	25	<--->	DN-T1/0	25	<--->	DN-T3/0	10	<--->
Blue Term Block	DN-T6B	50	<--->	DN-T4B	25	<--->	DN-T1/0B	25	<--->	-	-	-
Feed-through Terminal Blocks Specifications												
UL Approval *	600V	65A	20-6 AWG	600V	85A	14-4 AWG	600V	130A	14-1/0 AWG	600V	185A	4-3/0 AWG
CSA Approval	600V	80A	18-6 AWG	600V	105A	14-4 AWG	600V	130A	14-1/0 AWG	600V	185A	4-3/0 AWG
VDE Approval	750V	63A	10mm ²	750V	110A	25mm ²	800V	150A	50mm ²	800V	192A	70mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC			LVD 2006/95/EC			LVD 2006/95/EC		
Agency File #	E179129, LR84816			E179129, LR84816			E179129, LR84816			E179129, LR84816		
Wire Strip Length	0.47" (12mm)			0.55" (14mm)			0.67" (17mm)			1.02" (26mm)		
Tightening Torque	18.0 lb-in (2.0Nm)			26.5 lb-in (3.0Nm)			44 lb-in (5.0Nm)			89 lb-in (10Nm)		
Density	33 pcs./ft. (111/m)			25 pcs./ft. (83/m)			19 pcs./ft. (62/m)			11 pcs./ft. (38/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											
<i>* Note: For copper wire only</i>												

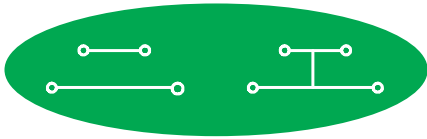


Accessories												
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm high) or DN-R35HS1 (15 mm high)										10	various
	DN-R35S1-2 (7.5 mm high) or DN-R35HS1-2 (15 mm high)										2	various
End Bracket	DN-EB35										50	<--->
	DN-EB35MN										20	<--->
	DN-EB35-A or DN-QEB35										50	various
	DN-EB35-A-10 or DN-QEB35-10										10	various
End Cover	DN-EC86	100	<--->	DN-EC4	50	<--->	DN-EC1/0	50	<--->	Included	-	-
	DN-EC86MN	25	<--->	-	-	-	-	-	-	-	-	
Separator*	DN-S86	100	<--->	-	-	-	-	-	-	-	-	
Jumpers / 2 pole	DN-2J6	100	<--->	-	-	-	-	-	-	-	-	
	DN-3J6	100	<--->	-	-	-	-	-	-	-	-	
	DN-4J6	100	<--->	-	-	-	-	-	-	-	-	
/ Multi-pole	DN-55J6	1	<--->	-	-	-	-	-	-	-	-	
Marking Tags	DN-L or DN-LT series										500/100	various
Angled Support Bracket	DN-ASB1										50	<--->

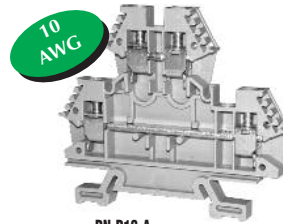
For more information on accessories, see the DINnectors Accessories section of this chapter.

Note: Screw is a Hex Bolt, Size M8

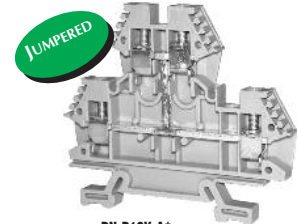
Double-level Terminal Blocks



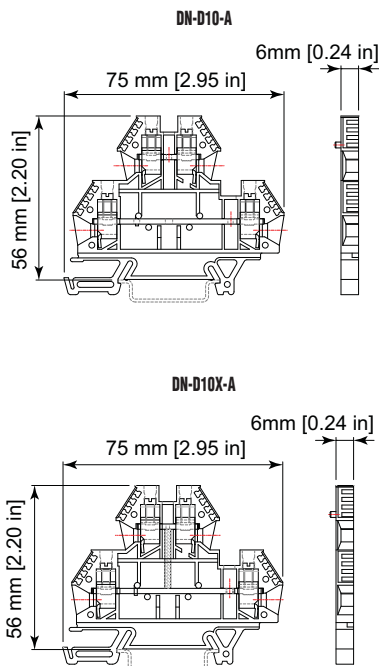
Double-level terminal blocks offer twice the wiring density of feed-through blocks. The DN-D10X-A version is supplied with an internal jumper to connect common all four of its connection points.



DN-D10-A
Series: EURO D 4-2/35



DN-D10X-A*
Series: EURO D 4-2/35

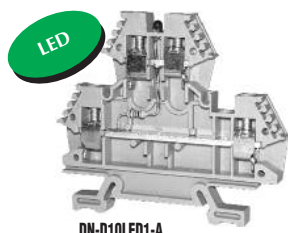


	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Block	DN-D10-A	50	<--->	DN-D10X-A	50	<--->
Blue Term Block	DN-D10B-A	50	<--->	-	-	-
Black Term Block	DN-D10BLK-A	50	<--->	-	-	-
Green Term Block	DN-D10GRN-A	50	<--->	-	-	-
Orange Term Block	DN-D10ORG-A	50	<--->	-	-	-
Red Term Block	DN-D10RED-A	50	<--->	-	-	-
Yellow Term Block	DN-D10YEL-A	50	<--->	-	-	-
Double-level Terminal Blocks Specifications						
UL Approval *	600V	30A	24-10 AWG	600V	30A	24-10AWG
CSA Approval	600V	30A	24-10 AWG	600V	30A	24-10AWG
VDE Approval	800V	32A	4mm ²	800V	32A	4mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC		
Agency File #	UL E179129			UL E179129		
Wire Strip Length	0.39 in [10 mm]			0.39 in [10 mm]		
Tightening Torque	7lb-in [0.6 N-m]			7lb-in [0.6 N-m]		
Density	50 pcs/ft [166/m]			50 pcs/ft [166/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					
* For copper wire only						

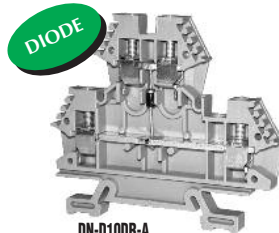
Accessories						
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)		10	various		
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)		2	various		
End Bracket	DN-EB35		50	<--->		
	DN-EB35MN		20	<--->		
	DN-EB35-A or DN-QEB35		50	various		
	DN-EB35-A-10 or DN-QEB35-10		10	various		
End Cover	DN-DEC10		50	<--->		
Jumpers	/ 2 pole	DN-2J4Y ***		100	<--->	
	/ 3 pole	DN-3J4Y ***		100	<--->	
	/ Multi-pole	DN-24J4Y (24 pole) ***		5	<--->	
Jumper Cutting Tool	DN-J4CUT **		1	<--->		
Marking Tags	DN-L or DN-LT series		500/100	various		
Angled Support Bracket	DN-ASB1		50	<--->		
Top Cover	DN-DC10		100	<--->		
Test Plug, Red	DN-TPR	10	<--->	DN-TPR ***	10	<--->
Test Plug, Black	DN-TPB	10	<--->	DN-TPB ***	10	<--->
** Jumper Cutting Tool DN-J4CUT cuts DN-xJ4Y multi-pole jumpers and MAINTAINS THE JUMPER INSULATION. *** Jumping and testing should be done on bottom level only for the DN-D10X-A						

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

Double-level Terminal Blocks



DN-D10LED1-A
Series: EURO D 4-2/35

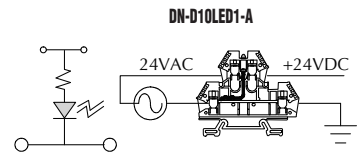


DN-D10DR-A
Series: EURO D 4-2/35

LED terminal blocks

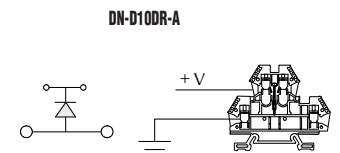
These terminal blocks have built-in LED indicators. The LED illuminates when voltage is present. The LED1 version is for 24V AC/DC circuits, and includes current-limiting elements.

Note: Wire only one supply.



Diode terminal blocks

Typically, an inductive load produces a spike (neg.-going) when it is turned off. These terminal blocks with built-in diodes help protect your PLC's output circuits. The circuit below shows the normal voltages to the load (during ON state). (Please see application note AN-MISC-032 at <http://support.automationdirect.com/docs/an-misc-032.pdf>)



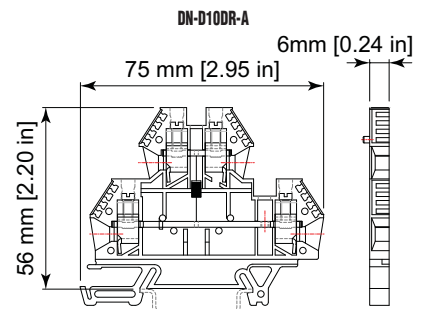
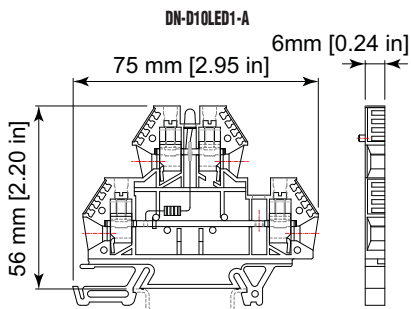
1N4007 Reverse bias diode
(See Diode information located on page 29-40)

Gray Term Block	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
	DN-D10LED1-A**	10	<--->	DN-D10DR-A**	50	<--->
Double-level Terminal Blocks Specifications						
UL Approval *	600V	30A	24-10 AWG	600V	1A (Diode)	24-10 AWG
CSA Approval	600V	30A	24-10 AWG	600V	1A (Diode)	24-10 AWG
VDE Approval	800V	32A	4mm ²	800V	1A (Diode)	4mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC		
Agency File #	UL E179129			UL E179129		
Wire Strip Length	0.39 in [10 mm]			0.39 in [10 mm]		
Tightening Torque	7lb-in [0.6 N-m]			7lb-in [0.6 N-m]		
Density	50 pcs/ft [166/m]			50 pcs/ft [166/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					
LED Voltage	12-24V AC /DC. 3.4 kΩ			-		

Accessories			
	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)	10	various
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)	2	various
End Bracket	DN-EB35	50	<--->
	DN-EB35MN	20	<--->
	DN-EB35-A or DN-QEB35	50	various
	DN-EB35-A-10 or DN-QEB35-10	10	various
End Cover	DN-DEC10	50	<--->
Jumpers / 2 pole	DN-2J4Y **	100	<--->
	DN-3J4Y **	100	<--->
/ 3 pole	DN-24J4Y ** (24 pole)	5	<--->
/ Multi-pole	DN-24J4Y ** (24 pole)	5	<--->
Jumper Cutting Tool ***	DN-J4CUT	1	<--->
Marking Tags	DN-L or DN-LT series	500/100	various
Angled Support Bracket	DN-ASB1	50	<--->
Top Cover	DN-DC10	100	<--->
Test Plug, Red	DN-TPR **	10	<--->
Test Plug, Black	DN-TPB **	10	<--->

* For copper wire only.
** Jumpering and testing should be done on bottom level only.
*** Jumper Cutting Tool DN-J4CUT cuts DN-xJ4Y multi-pole jumpers and MAINTAINS THE JUMPER INSULATION.

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



Triple-level and Sensor Terminal Blocks

Triple-level terminal blocks enable high-density wiring or simplified, low-cost sensor wiring.

When wiring space is at a premium, use the DN-TL14-A to connect three separate circuits in only 5mm of linear DIN-rail space. The rest of our family of triple-level blocks will allow you to wire one terminal block per sensor, vs. the traditional method, which requires three different single-level blocks per sensor. The DN-TL14S-A is the standard sensor terminal block, and the DN-TL14SLP-A and DN-TL14SLN-A provide LED indication at the terminal block when voltage is present.

14
AWG

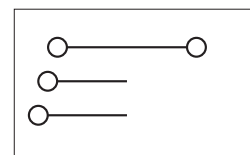
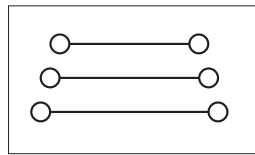


DN-TL14-A
Series: EURO W 2.5/35

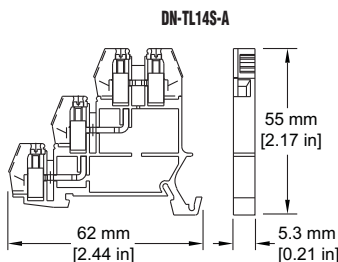
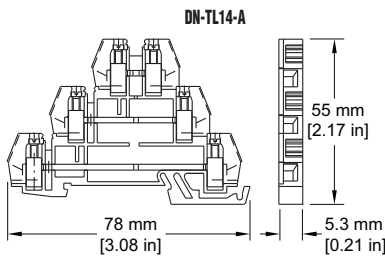
SENSOR



DN-TL14S-A
Series: EURO Z 2.5/35



Dimensions



	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Block	DN-TL14-A	25	<--->	DN-TL14S-A	25	<--->
Triple-level and Sensor Terminal Blocks Specifications						
UL Approval*	300V	10A	26-14AWG	300V	10A	26-14AWG
CSA Approval	300V	10A	26-14AWG	300V	10A	26-14AWG
VDE Approval	300V	10A	2.5mm ²	300V	10A	2.5mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC		
Agency File #	UL E179129			UL E179129		
Wire Strip Length	0.39" (10mm)			0.39" (10mm)		
Tightening Torque	4.5 lb-in. (0.50 Nm)			4.5 lb-in. (0.50 Nm)		
Density	57 pcs./ft. (200/m)			57 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					

* Note: For copper wire only

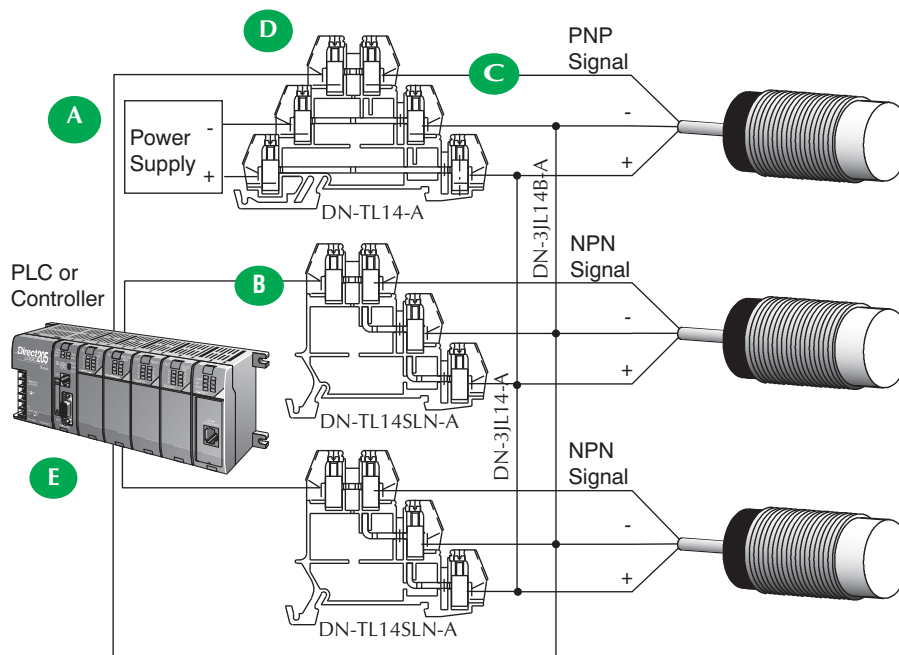
Accessories						
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)			10	various	
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)			2	various	
End Bracket	DN-EB35			50	<--->	
	DN-EB35MN			20	<--->	
	DN-EB35-A or DN-QEB35			50	various	
	DN-EB35-A-10 or DN-QEB35-10			10	various	
End Cover	DN-EC14	25	<--->	DN-EC14S	25	<--->
Jumpers	/ 2 pole Blue			DN-2JL14B-A		
	/ 3 pole Blue			DN-3JL14B-A		
	/ 12 pole Blue			DN-12JL14B-A		
	/ 2 pole Red			DN-2JL14-A		
	/ 3 pole Red			DN-3JL14-A		
/ 12 pole Red			DN-12JL14-A			
Marking Tags	DN-LAT-A series			500	<--->	
Angled Support Bracket	DN-ASB1			50	<--->	

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

Triple-level and Sensor Terminal Blocks

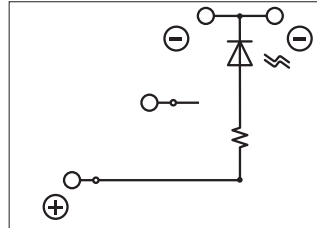
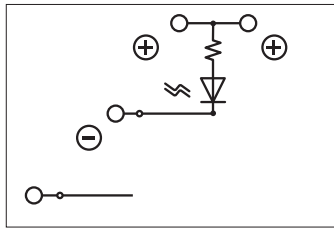
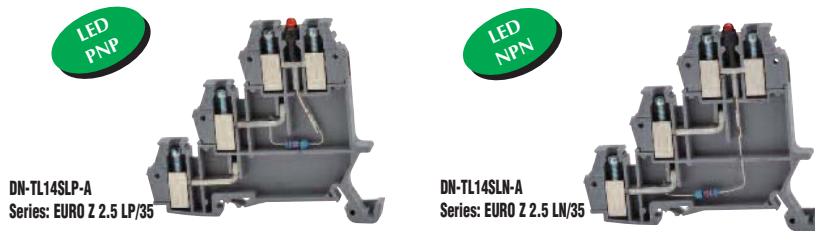
Sensor wiring has never been this simple.

- A** Wire the bottom two levels of one DN-TL14-A to connect your power supply to what will become a sensor +V and -V power bus.
- B** Mount the triple-level sensor blocks next to the DN-TL14-A. The DN-TL14S-A is our standard sensor terminal block. The DN-TL14SLP-A gives you LED indication for PNP sensors, and the DN-TL14SLN-A gives you LED indication for NPN sensors.
- C** Use the top level to connect the first sensor signal line to the PLC.
- D** Connect the power supply terminals of the DN-TL14-A to the LED sensor terminal blocks by installing jumpers. This will create a +V and -V power bus on the two bottom levels of the terminals. Use an external wire to connect a group of 12 DN-TL14-As to another group.
- E** Wire the sensor signal lines through the top levels of the blocks to your PLC or controller. Remember to use the appropriate end covers to cover any exposed metal parts for safety purposes.



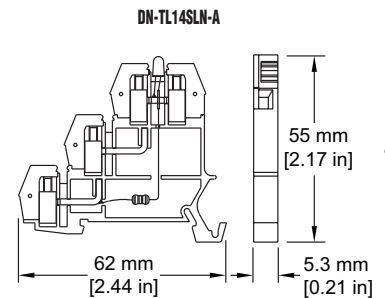
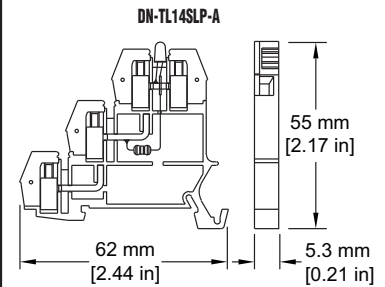
Note: Wiring schematic is for reference only. See individual I/O modules for correct wiring connections.

Sensor Terminal Blocks with LED



	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Block	DN-TL14SLP-A	25	<-->	DN-TL14SLN-A	25	<-->
Sensor Terminal Blocks with LEDs Specifications						
UL Approval*	300V	10A	26-14AWG	300V	10A	26-14AWG
CSA Approval	300V	10A	26-14AWG	300V	10A	26-14AWG
VDE Approval	300V	10A	2.5mm ²	300V	10A	2.5mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC		
LED Voltage/Resistance	12 - 24V AC/DC. 3.4 kΩ			12 - 24V AC/DC. 3.4 kΩ		
Agency File #	UL E179129			UL E179129		
Leakage Current	25mA@5V			25mA@5V		
Wire Strip Length	0.39" (10mm)			0.39" (10mm)		
Tightening Torque	4.5/lb-in. (0.50 Nm)			4.5/lb-in. (0.50 Nm)		
Density	57 pcs./ft. (200/m)			57 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					
*NOTE: For copper wire only						

Dimensions



Accessories			
	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)	10	various
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)	2	various
End Bracket	DN-EB35	50	<-->
	DN-EB35MN	20	<-->
	DN-EB35-A or DN-QEB35	50	various
	DN-EB35-A-10 or DN-QEB35-10	10	various
End Cover	DN-EC14S	25	<-->
Jumpers	/ 2 pole Blue DN-2JL14B-A	100	<-->
	/ 3 pole Blue DN-3JL14B-A	100	<-->
	/ 12 pole Blue DN-12JL14B-A	10	<-->
	/ 2 pole Red DN-2JL14-A	100	<-->
	/ 3 pole Red DN-3JL14-A	100	<-->
	/ 12 pole Red DN-12JL14-A	10	<-->
Marking Tags	DN-LAT-A series	500	<-->
Angled Support Bracket	DN-ASB1	50	<-->

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

Thermocouple Terminal Blocks



DN-THERM1 (open) – Series: EURO TC - 50 Volt
 DN-THERM2 (open) – Series: EURO TC - 300 Volt
 DN-THERMx (shown closed)

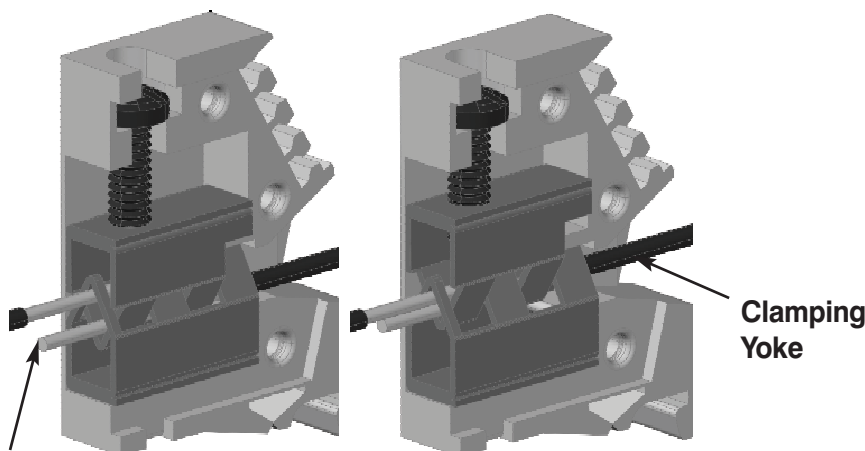
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Block	DN-THERM1	50	<-->	DN-THERM2	50	<-->
Thermocouple Terminal Blocks Specifications						
UL Approval	50V AC/DC	—*	30–20 AWG	300V	10A	20–16 AWG
Agency File #	UL E179129					
Wire Strip Length	0.79 in (20 mm)					
Tightening Torque	0.875 lb-in (0.099 N-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					
* DN-THERM1 – no assigned amp rating; intended for use with thermocouple wires only						

Accessories			
	Part Number	Pcs/Pkg	Price/Pkg
End Bracket	DN-EB35	50	<-->
	DN-EB35MN	20	<-->
	DN-EB35-A or DN-QEB35	50	various
	DN-EB35-A-10 or DN-QEB35-10	10	various
End Cover	Included		
Marking Tags	DN-L or DN-LT series	500/100	various
Angled Support Bracket	DN-ASB1	50	<-->
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)	10	various
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)	2	various

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

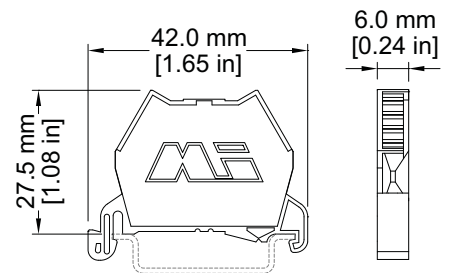
Thermocouple terminal blocks are designed with only one screw clamp to provide suitable connections to thermocouple sensors. The DN-THERM1 and DN-THERM2 clamping yoke terminal blocks have been designed to accept any type of thermocouple lead connection within their rated wire size ranges. The thermocouple leads are simply stripped of their insulation to 20 mm (0.79"), and then inserted into the terminal block where the two wires overlap. The leads are clamped together on both sides of the terminal block, resulting in an excellent electrical connection to the thermocouple without the need for any other compensation metals/contacts.

DN-THERMx operation

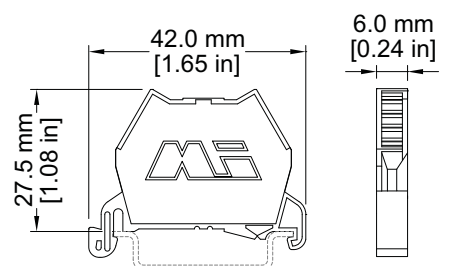


Overlap of thermocouple wires allows for universal connections.

DN-THERM1



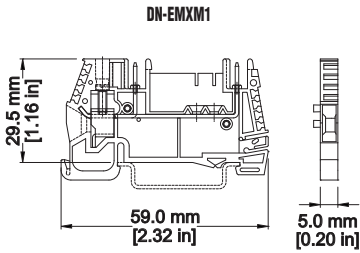
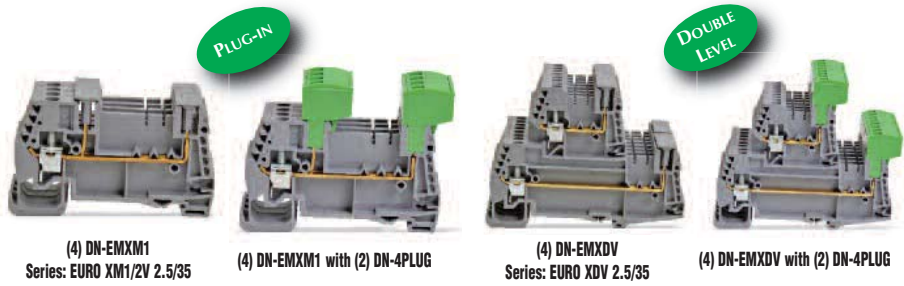
DN-THERM2



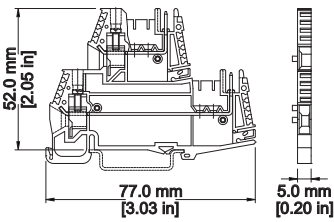
Plug-In Terminal Blocks



Single and double level DN-EMXxx plug-in terminal blocks with screw terminals accept all DN-xxPLUG Euro plugs.



DN-EMXM1



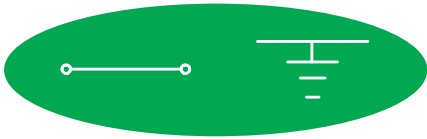
DN-EMXDV

	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Block	DN-EMXM1	32	<-->	DN-EMXDV	32	<-->
Plug-In Terminal Blocks Specifications						
Levels	single			double		
UL Approval *	300V	12A	24-12 AWG*	300V	12A	24-12 AWG*
Agency File #	UL E179129					
Wire Strip Length	0.31 in (8mm)					
Tightening Torque	4 lb-in (0.45Nm)					
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					
* For copper wire only						

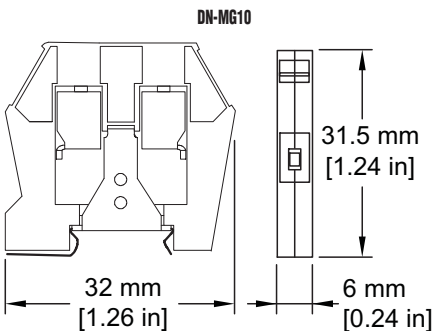
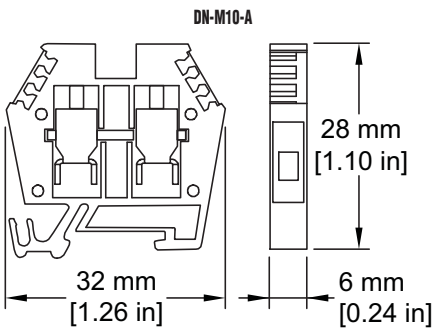
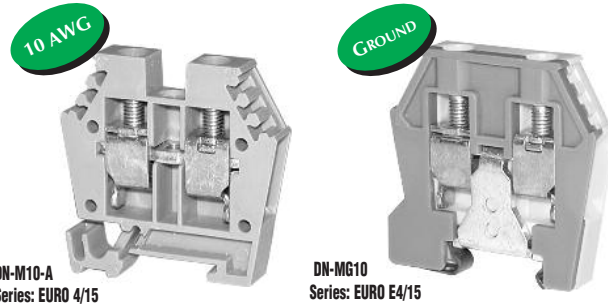
Accessories							
	Part Number	Pcs /Pkg	Price /Pkg	Part Number	Pcs /Pkg	Price /Pkg	
End Bracket	DN-EB35				50	<-->	
	DN-EB35MN				20	<-->	
	DN-EB35-A or DN-QEB35				50	various	
	DN-EB35-A-10 or DN-QEB35-10				10	various	
End Cover	left (open) side	DN-EMXM1EC1	25	<-->	DN-EMXDVEC1	<-->	
	right (closed) side	DN-EMXM1EC2		<-->	DN-EMXDVEC2	25	<-->
Spacer	either side	DN-EMXM1SPA1	<-->	DN-EMXDVSPA1	<-->	<-->	
Jumpers *	2-pole	DN-2J2Y				100	<-->
	3-pole	DN-3J2Y				100	<-->
	multi-pole (24)	DN-24J2Y				5	<-->
Jumper Cutting Tool *	DN-J2CUT				1	<-->	
Pin Protector - 4-pole	DN-EMPEG1	Each piece covers and protects up to 4 unused pins			16	<-->	
Marking Tags	DN-LA, DN-LT, or DN-EMBL series				500 /100	various	
DIN Rail (35 mm)	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)				10	various	
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)				2	various	
* Jumper Cutting Tool DN-J2CUT cuts EURO J 2.5 multi-pole jumpers and MAINTAINS THE INSULATION							

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

Mini Terminal Blocks



Mini terminal blocks are used in areas with extremely limited space requirements, and mount on the smaller DIN rail type DN-R15S1.



	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Block	DN-M10-A	100	<--->	-	-	-
Blue Term Block	DN-M10B-A	100	<--->	-	-	-
Green/Yellow Block	-	-	-	DN-MG10	20	<--->
Mini Terminal Blocks Specifications						
UL Approval *	300V	30A	24-10 AWG	-	-	18-10 AWG
CSA Approval	300V	30A	24-10 AWG	-	-	18-10 AWG
VDE Approval	400V	32A	4mm ²	-	-	4mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC		
Agency File #	UL E179129			UL E179129		
Wire Strip Length	0.39 in [10 mm]			0.39 in [10 mm]		
Tightening Torque	7lb-in [0.6 N-m]			7lb-in [0.6 N-m]		
Density	43 pcs/ft [142/m]			50 pcs/ft [166/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					
* For copper wire only						

Accessories						
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
DIN Rail (15 mm)	DN-R15S1				10	<--->
	DN-R15S1-2				2	<--->
End Bracket	DN-EB15	100	<--->			
	DN-EB15MN	20	<--->			
End Cover	DN-ECM10	100	<--->			
	DN-ECM10MN	25	<--->			
Jumpers / 2 pole	DN-2J4Y	100	<--->			
	DN-3J4Y	100	<--->			
/ Multi-pole	DN-24J4Y	5	<--->			
24 pole	24 pole					
Jumper Cutting Tool **	DN-J4CUT	1	<--->			
Marking Tags	DN-LT series				100	<--->
Angled Support Bracket	DN-ASB1				50	<--->
Top Cover	DN-MC10	100	<--->			
Test Plug, Red	DN-TPR	10	<--->			
Test Plug, Black	DN-TPB	10	<--->			
** Jumper Cutting Tool DN-J4CUT cuts DN-xJ4Y multi-pole jumpers and MAINTAINS THE JUMPER INSULATION.						

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

Ground Terminal Blocks



Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail by means of a conducting clamping foot. In this way, the DIN rail can function as a ground bus bar.

Note: The use of an end bracket is not required when a ground block is positioned at the end of a terminal block assembly.

Ground blocks are molded in green and yellow per international standards.



DN-G10
Series: EURO E4/35

DN-G8
Series: EURO E6/35

DN-G6
Series: EURO E10/35

Ground Block	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
	DN-G10	50	<--->	DN-G8	50	<--->	DN-G6	50	<--->
	DN-G10-10	10	<--->	DN-G8-10	10	<--->	DN-G6-10	10	<--->

Ground Terminal Blocks Specifications

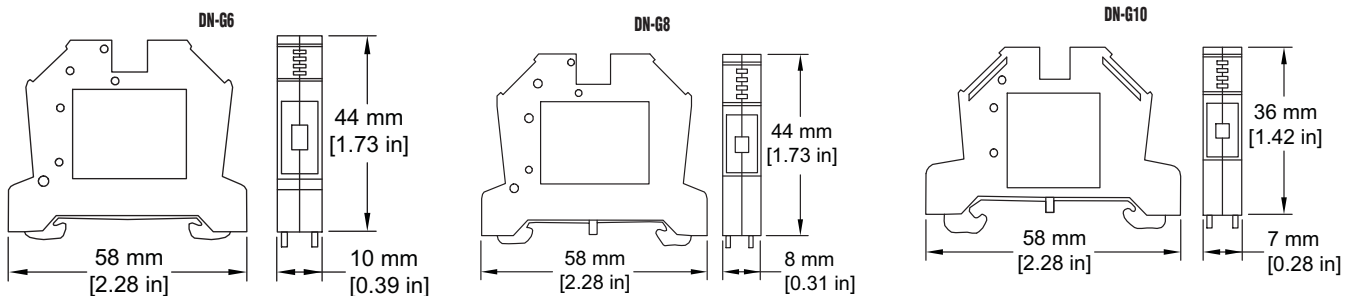
UL Approval *	-	-	24-10AWG	-	-	22-8AWG	-	-	20-6AWG
CSA Approval	-	-	18-12AWG	-	-	18-8AWG	-	-	18-6AWG
VDE Approval	-	-	4mm ²	-	-	6mm ²	-	-	10mm ²
CE Conformity	CE 23/20, CE 23/21			CE 23/20, CE 23/21			CE 23/20, CE 23/21		
Agency File #	E179129, LR84816			E179129, LR84816			E179129, LR84816		
Wire Strip Length	0.39 in (10 mm)			0.47 in (12 mm)			0.51 in (13 mm)		
Terminal Screw Torque	7 lb-in (0.8 N-m)			10 lb-in (1.1 N-m)			20 lb-in (2.3 N-m)		
Ground Screw Torque	7 lb-in (0.8 N-m)			7 lb-in (0.8 N-m)			7 lb-in (0.8 N-m)		
Density	43 pcs/ft (142/m)			38 pcs/ft (125/m)			30 pcs/ft (100/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								
* For copper wire only									

Accessories

	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)	10	various
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)	2	various
Marking Tags	DN-L*/DN-LT** series	500/100	various
Angled Support Bracket	DN-ASB1	50	<--->

Notes: * On lever arm, ** On terminal body

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



Ground Terminal Blocks, continued



Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail by means of a conducting clamping foot. In this way, the DIN rail can function as a ground bus bar.

Note: The use of an end bracket is not required when a ground block is positioned at the end of a terminal block assembly.

Ground blocks are molded in green and yellow per international standards.

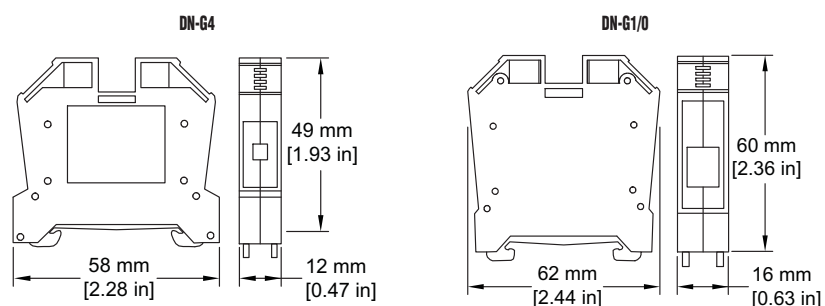


Ground Block	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
	DN-G4	25	<--->	DN-G1/0	25	<--->
Ground Terminal Blocks Specifications						
UL Approval	-	-	14-4AWG	-	-	14-1/0AWG
CSA Approval	-	-	14-4AWG	-	-	14-1/0AWG
VDE Approval	-	-	25mm ²	-	-	35mm ²
CE Conformity	CE 23/20, CE 23/21			CE 23/20, CE 23/21		
Agency File #	E179129, LR84816			E179129, LR84816		
Wire Strip Length	0.55" (14mm)			0.71" (18mm)		
Terminal Screw Torque	30 lb-in (3.4 N-m)			45 lb-in (5.1 N-m)		
Ground Screw Torque	10 lb-in (1.1 N-m)					
Density	25 pcs./ft. (83/m)			19 pcs./ft. (62/m)		
SCCR	10 kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components					

Accessories			
	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)	10	various
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)	2	various
Marking Tags	DN-L*/DN-LT** series	500/100	various
Angled Support Bracket	DN-ASB1	50	<--->

*Notes: * On lever arm, ** On terminal body*

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



Fuse Terminal Blocks



Company Information

Systems Overview

Programmable Controllers

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

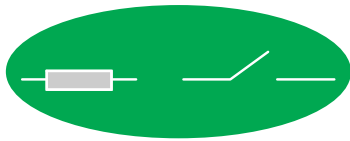
Pneumatics

Safety

Appendix

Product Index

Part # Index



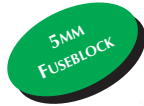
Fuse blocks are available for 1/4", 5 mm, Class CC and midget size fuses, either with or without a blown fuse LED. LED fuse blocks are polarity sensitive. The hinge side is positive.



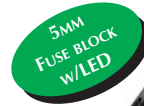
DN-F6 Series: EURO S 10H/35



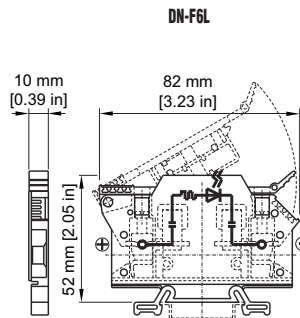
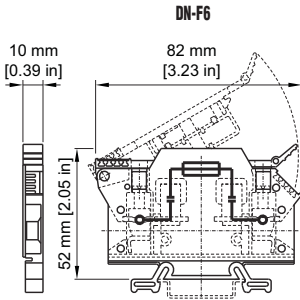
DN-F6L Series: EURO S 10H/35



DN-F10 Series: EURO S 4LH/35



DN-F10L Series: EURO S 4LH/35



	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Term Blk	DN-F6	25	<--->	-	-	-	DN-F10	50	<--->	-	-	-
12-24VAC/DC*	-	-	-	DN-F6L24	10	<--->	-	-	-	DN-F10L24	10	<--->
110VAC/DC*	-	-	-	DN-F6L110	10	<--->	-	-	-	DN-F10L110	10	<--->
220VAC/DC*	-	-	-	DN-F6L220	10	<--->	-	-	-	DN-F10L220	10	<--->

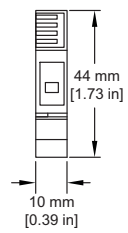
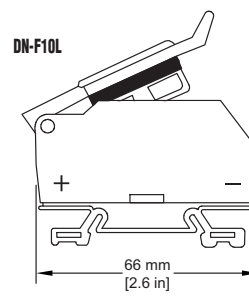
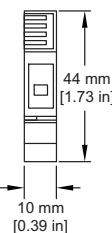
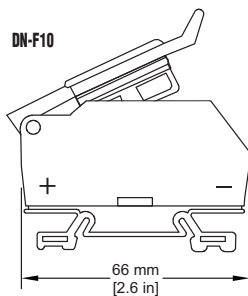
Fuse Terminal Blocks Specifications

UL Approval**	600V	30A	20-6 AWG	600V	30A	20-6 AWG	300V	15A	24-10 AWG	300V	15A	24-10 AWG
CSA Approval	600V	30A	18-6 AWG	600V	30A	18-6 AWG	300V	8A	18-12 AWG	300V	8A	18-12 AWG
VDE Approval	750V	8A	-	750V	8A	-	500V	8A	4mm ²	500V	8A	4mm ²
CE Conformity	CE 23/20, CE 23/21		CE 23/20, CE 23/21		CE 23/20, CE 23/21		CE 23/20, CE 23/21		CE 23/20, CE 23/21		CE 23/20, CE 23/21	
Agency File #	E179129, LR84816			E179129, LR84816			E179129, LR84816			E179129, LR84816		
Wire Strip Length	0.47" (12mm)			0.47" (12mm)			0.39" (10mm)			0.39" (10mm)		
Tightening Torque	18.0 lb-in (2.0Nm)			18.0 lb-in (2.0Nm)			5.5 lb-in (0.6Nm)			5.5 lb-in (0.6Nm)		
Density	30 pcs./ft. (100/m)			30 pcs./ft. (100/m)			30 pcs./ft. (100/m)			30 pcs./ft. (100/m)		
Fuse Size (not supplied)	1 1/4" X 1/4"			1 1/4" X 1/4"			5x20mm-5x25mm			5x20mm-5x25mm		
Indicator Type	Non-indicating			LED blown fuse indicator			Non-indicating			LED blown fuse indicator		
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											
Notes:	* Working voltage ** For copper wire only											

Accessories

	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)	10	various
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)	2	various
End Bracket	DN-EB35	50	<--->
	DN-EB35MN	20	<--->
	DN-EB35-A or DN-QEB35	50	various
	DN-EB35-A-10 or DN-QEB35-10	10	various
End Cover	Included		
Marking Tags	DN-L*/DN-LT** series	500/100	various
Angled Support Bracket	DN-ASB1	50	<--->
Notes:	* On lever arm, ** On terminal body		

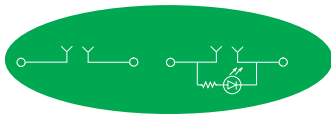
For more information on accessories, see the DINnectors Accessories section of this chapter.



Note: DN-F6 series fuse holders will accommodate the following AutomationDirect fuses: ABC, AGC, MDA and MDL.

DN-F10 series fuse holders will accommodate the following AutomationDirect fuses: GMA, GMC, S500, and S506.

Supplementary Protector / Disconnect Terminal Block Sockets



DN-DIS series Disconnect Terminal Blocks offer the flexibility of opening a circuit without removing any wiring. Available with or without LED indication in 12V DC and 24V DC, they can also be used as a socket for the DN-SUPP series Supplementary Protectors by simply removing the Disconnect Blade.



DN-DISx Series: EURO F2.5 / EURO F4



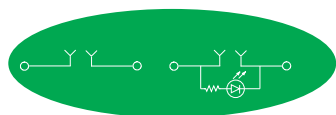
DN-DISxL Series: EURO F2 with LED / EURO F4 with LED

Gray Term Block	Part Number	Trip Indicator	Pcs /Pkg	Price /Pkg	Part Number	Trip Indicator	Pcs /Pkg	Price /Pkg
Socket with Disconnect	DN-DIS2	–	50	<--->	DN-DIS4	–	50	<--->
	DN-DIS2L12	12 VAC/DC LED	50	<--->	DN-DIS4L12	12 VAC/DC LED	50	<--->
	DN-DIS2L24	24 VAC/DC LED	50	<--->	DN-DIS4L24	24 VAC/DC LED	50	<--->
Terminal Block Socket Specifications								
UL Approval *	300V	10A with SUPP 20A with disconnect	24–12 AWG *	300V	10A with SUPP 25A with disconnect	24–10 AWG *		
Agency File #	UL E179129							
Wire Strip Length	0.20 in (5 mm)				0.24 in (6 mm)			
Tightening Torque	4.5 lb-in (0.5 N-m)				7 lb-in (0.8 N-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							
* For copper wire only								

Accessories								
	Part Number	Description	Pcs /Pkg	Price /Pkg	Part Number	Description	Pcs /Pkg	Price /Pkg
Disconnect Blade	DN-DIS-BLADE	use instead of SUPP for DN-FE, or as replacement blade for DN-DIS	50	<--->				
End Bracket	DN-EB35		50	<--->				
	DN-EB35MN		20	<--->				
	DN-EB35-A or DN-QEB35		50	various				
	DN-EB35-A-10 or DN-QEB35-10		10	various				
End Cover / Spacer *	DN-FESPA		50	<--->				
	DN-FESPA-10		10	<--->				
Separator	DN-FESEP		50	<--->				
	DN-FESEP-10		10	<--->				
Marking Tags	DN-LA or DN-LT series		500/100	various	DN-L or DN-LT series		500/100	<--->
Angled Support Bracket	DN-ASB1		50	<--->				
35 mm DIN Rail	DN-R35S1 (7.5 mm high) or DN-R35HS1 (15 mm high)		10	various				
	DN-R35S1-2 (7.5 mm high) or DN-R35HS1-2 (15 mm high)		2	various				
* Use one End Cover / Spacer per DN-FEx TB Socket when using DN-SUPP-x supplementary protector								

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

Terminal Block Sockets



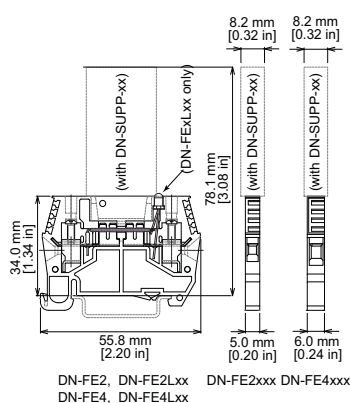
DN-FE series terminal block sockets accept separately available circuit disconnects or supplementary protectors. The DN-FE blocks are available either with or without a trip-indicating LED. The LED blocks are polarity-sensitive, with the LED side negative.



DN-FE Series: EURO F2.5 / EURO F4



DN-FExL Series: EURO F2 with LED / EURO F4 with LED



DN-DIS-xxx dimensions are the same as DN-FExxx dimensions.

Gray Term Block	Part Number	Trip Indicator	Pcs /Pkg	Price /Pkg	Part Number	Trip Indicator	Pcs /Pkg	Price /Pkg
Socket Only	DN-FE2	—	50	<--->	DN-FE4	—	50	<--->
	DN-FE2-5	—	5	<--->	DN-FE4-5	—	5	<--->
	DN-FE2L12	12 VAC/DC LED	50	<--->	DN-FE4L12	12 VAC/DC LED	50	<--->
	DN-FE2L12-5	12 VAC/DC LED	5	<--->	DN-FE4L12-5	12 VAC/DC LED	5	<--->
	DN-FE2L24	24 VAC/DC LED	50	<--->	DN-FE4L24	24 VAC/DC LED	50	<--->
DN-FE2L24-5	24 VAC/DC LED	5	<--->	DN-FE4L24-5	24 VAC/DC LED	5	<--->	

Terminal Block Socket Specifications

UL Approval *	300V	10A with SUPP 20A with disconnect	24-12 AWG *	300V	10A with SUPP 25A with disconnect	24-10 AWG *
Agency File #	UL E179129					
Wire Strip Length	0.20 in (5 mm)			0.24 in (6 mm)		
Tightening Torque	4.5 lb-in (0.5 N-m)			7 lb-in (0.8 N-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					

* For copper wire only

Accessories

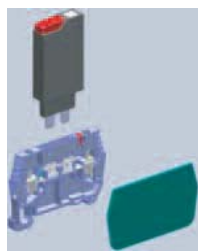
	Part Number	Description	Pcs /Pkg	Price /Pkg	Part Number	Description	Pcs /Pkg	Price /Pkg
Supplementary Protector	DN-SUPP-x trip ratings available from 0.25A to 10A						see next page	
End Bracket	DN-EB35						50	<--->
	DN-EB35MN						20	<--->
	DN-EB35-A						50	<--->
	DN-QEB35						50	<--->
	DN-EB35-A-10						10	<--->
End Cover / Spacer *	DN-FESPA						50	<--->
	DN-FESPA-10						10	<--->
Separator	DN-FESEP						50	<--->
	DN-FESEP-10						10	<--->
Marking Tags	DN-LA or DN-LT series	500/100	various	DN-L or DN-LT series	500/100	various		
Angled Support Bracket	DN-ASB1						50	<--->
35 mm DIN Rail	DN-R35S1 (7.5 mm high) or DN-R35HS1 (15 mm high)						10	various
	DN-R35S1-2 (7.5 mm high) or DN-R35HS1-2 (15 mm high)						2	various

* Use one End Cover / Spacer per DN-FEx TB Socket when using DN-SUPP-x supplementary protector

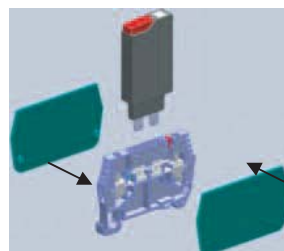
For more information on accessories, see the DINnectors Accessories section of this chapter.



DN-FEx with
DN-SUPP-x Supplementary Protector



When aligned alone, use
DN-FESEP



When aligned in a row, use
2pcs DN-FESPA for DN-FE2
2pcs DN-FESEP for DN-FE4

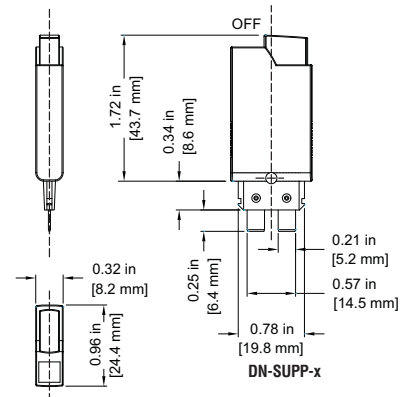
For more information on
accessories, see the
DINnectors Accessories
section of this chapter.

Supplementary Protectors for Terminal Block Sockets

Accessories – Supplementary Protectors							
Part Number	Reference	Rated Current	Internal Resistance	Type	Fits Socket	Pcs /Pkg	Price /Pkg
DN-SUPP-P25	435T0025	0.25A	14Ω	UL1077 Single Pole Push On Push Off Push to Reset	Terminal Block Socket Types: DN-FEx or DN-DISx if disconnect blade is removed	20	<--->
DN-SUPP-P25-1						1	<--->
DN-SUPP-P5	435T0050	0.5A	3.4Ω			20	<--->
DN-SUPP-P5-1						1	<--->
DN-SUPP-1	435T0100	1A	0.9Ω			20	<--->
DN-SUPP-1-1						1	<--->
DN-SUPP-2	435T0200	2A	0.25Ω			20	<--->
DN-SUPP-2-1						1	<--->
DN-SUPP-3	435T0300	3A	0.11Ω			20	<--->
DN-SUPP-3-1						1	<--->
DN-SUPP-4	435T0400	4A	0.07Ω			20	<--->
DN-SUPP-4-1						1	<--->
DN-SUPP-6	435T0600	6A	≤0.05Ω			20	<--->
DN-SUPP-6-1						1	<--->
DN-SUPP-8	435T0800	8A				20	<--->
DN-SUPP-8-1						1	<--->
DN-SUPP-10	435T1000	10A		20	<--->		
DN-SUPP-10-1				1	<--->		

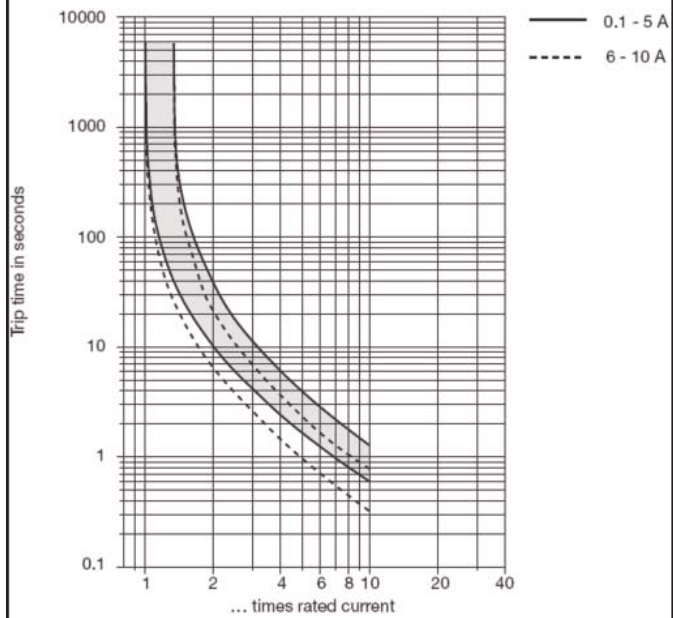


DN-SUPP-x Supplementary Protector (plugs into DN-FE EURO F series socket)



Supplementary Protector Specifications – DN-SUPP-x Series	
Voltage Rating (UL – U.S. & Canada)	250 VAC / 72 VDC
Voltage Rating (VDE)	250 VAC / 65 VDC
Typical Life Span	6,000 operations @ 1 x I _N (low inductance) 3,000 operations @ 1 x I _N (inductive) 500 operations @ 2 x I _N (inductive)
Insulation Coordination (IEC 60664 & 60664A)	Rated impulse withstand voltage 2.5kV; reinforced insulation in operating area; pollution degree 2
Dielectric Strength (IEC 60664 & 60664A)	Operating area: 3,000 VAC Installation area: 1,500 VAC
Insulation Resistance	>100 MΩ @ 500 VDC
Interrupting Capacity (UL 1077), SCCR	2,000A @ 250 VAC; 200A @ 65 VDC, SCCR = 2 kA with series overcurrent protection
Interrupting Capacity I_{CN}	0.1 to 5A: 6 x I _N 6 to 10A: 8 x I _N
Degree of Protection (IEC 60529 / DIN 40050)	Operating area IP40; terminal area IP00
Vibration (without terminal block)	5g (57-500 Hz) ±0.38 mm (10-57 Hz) to IEC 60068-2-6, test Fc, 10 frequency cycles/axis and to EN 50155
Shock (without terminal block)	25g (11ms) to IEC 60068-2-27, test Ea
Corrosion	96 hours @ 5% salt mist to IEC 60068-2-11, test Ka
Operating Temperature	-4°F to 140°F (-20°C to 60°C)
Humidity	240 hours @ 95% RH to IEC 60068-2-3, test Ca
Mass (weight)	15g (0.53 oz)
Agency Approval	UL file # E320462 (435T Series); VDE
Mounting Restrictions	When 2 or more devices are mounted side by side, each device should only carry 80% of its rating, or must be derated accordingly.

DN-SUPP-x typical time/current characteristics @ 23°C (73.4°F)

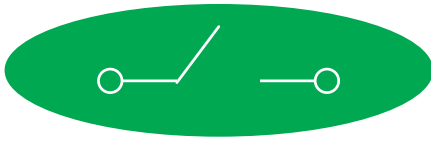


The time/current characteristic curve depends upon the prevailing ambient temperature. In order to eliminate nuisance tripping, multiply the supplementary protector current ratings by the derating factor shown below:

Ambient Temperature	°F	-22	-4	14	32	73.4	104	122	140
	°C	-30	-20	-10	0	23	40	50	60
Temp Derating Factor		0.8	0.76	0.84	0.92	1	1.08	1.16	1.24

Note: When 2 or more devices are mounted side by side, each device should only carry 80% of its rating, or must be derated accordingly.

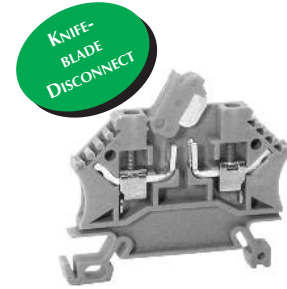
Disconnect Terminal Blocks



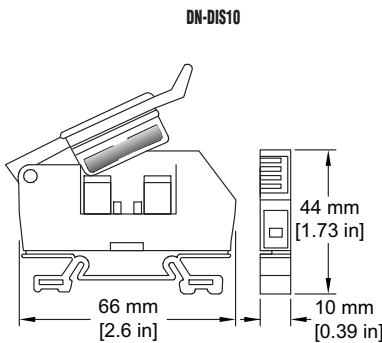
Both the DN-DIS10 and the DN-KBD12 allow fast circuit disconnection without rewiring. The DN-DIS10 is supplied with a copper disconnect bar installed in the fuse holder. The DN-KBD12 offers circuit disconnection capability by means of a pivoting, insulated "knife blade".



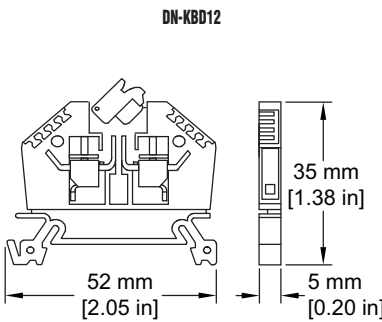
DN-DIS10
Series: EURO S 4LH/35



DN-KBD12
Series: EURO T2.5/35



DN-DIS10



DN-KBD12

	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
Gray Disconnect Block	DN-DIS10	50	<--->	DN-KBD12	50	<--->
Disconnect Terminal Blocks Specifications						
UL Approval*	300V	30A	24-10AWG	600V	20A	22-12AWG
CSA Approval	300V	25A	18-12 AWG	600V	16A	18-12AWG
VDE Approval	500V	25A	4mm ²	600V	16A	2.5mm ²
CE Conformity	CE 23/20, CE 23/21			CE 23/20, CE 23/21		
Agency File #	E179129, LR84816			E179129, LR84816		
Wire Strip Length	0.39" (10mm)			0.39" (10mm)		
Tightening Torque	5.5 lb-in. (0.6Nm)			4.5 lb-in. (0.5Nm)		
Density	30 pcs./ft. (125/m)			60 pcs./ft. (200/m)		
Disconnect Type	Copper bar			Copper blade		
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						
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	DN-R35S1 (7.5 mm) or DN-R35HS1(15 mm)		10	various		
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)		2	various		
End Bracket	DN-EB35		50	<--->		
	DN-EB35MN		20	<--->		
	DN-EB35-A		50	<--->		
	DN-EB35-A-10		10	<--->		
	DN-QEB35		50	<--->		
	DN-QEB35-10		10	<--->		
End Cover	Included			DN-ECKBD	100	<--->
Marking Tags	DN-L/DN-LT series	500/100	various	DN-LA /DN-LT series	500/100	various
Angled Support Bracket	DN-ASB1		50	<--->		

*Note: For copper wire only

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

Multiple Wire Combinations

The following table shows the possible multiple wire combinations for stranded copper conductors of the same cross section:

Multiple Wire Connection Combinations																	
		Wire Size AWG (mm ²)															
		#24	#22	#20	#18	#16	#14	#12	#10	#8	#6	#4	#2	#1	1/0	2/0	3/0
		(0.25)	(0.34)	(0.50)	(0.75)	(1.5)	(2.5)	(4)	(6)	(10)	(16)	(25)	(35)	(50)	(55)	(70)	(95)
Part Number	UL Rating	Number of the Same Size Wires Per Terminal Block															
DN-D10-A	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-D10DR-A	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-D10LED1-A	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-D10X-A	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-DIS10	24-10	4	3	3	2	2	1	1	1	-	-	-	-	-	-	-	-
DN-F10	24-10	4	3	3	2	2	1	1	1	-	-	-	-	-	-	-	-
DN-F10L110	24-10	4	3	3	2	2	1	1	1	-	-	-	-	-	-	-	-
DN-F10L220	24-10	4	3	3	2	2	1	1	1	-	-	-	-	-	-	-	-
DN-F10L24	24-10	4	3	3	2	2	1	1	1	-	-	-	-	-	-	-	-
DN-F6	20-6	-	-	4	4	3	3	2	2	1	1	-	-	-	-	-	-
DN-F6L110	20-6	-	-	4	4	3	3	2	2	1	1	-	-	-	-	-	-
DN-F6L220	20-6	-	-	4	4	3	3	2	2	1	1	-	-	-	-	-	-
DN-F6L24	20-6	-	-	4	4	3	3	2	2	1	1	-	-	-	-	-	-
DN-G1/0	14-2	-	-	-	-	-	3	2	2	2	1	1	1	1	1	-	-
DN-G10	24-10	4	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-G4	14-4	-	-	-	-	-	4	3	2	2	1	1	-	-	-	-	-
DN-G6	20-8	-	-	4	4	3	2	2	1	1	-	-	-	-	-	-	-
DN-G8	22-8	-	4	4	4	3	2	2	1	1	-	-	-	-	-	-	-
DN-KBD12	22-12	-	3	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-M10-A	24-10	4	3	3	2	2	1	1	1	-	-	-	-	-	-	-	-
DN-MG10	18-10	-	-	-	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-T1/0	14-1/0	-	-	-	-	-	3	2	2	2	1	1	1	1	1	-	-
DN-T10-A	24-10	4	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-T12-A	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-T3/0	4-3/0	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1
DN-T4	14-4	-	-	-	-	-	4	3	2	2	1	1	-	-	-	-	-
DN-T6	20-6	-	-	4	4	3	3	2	2	1	1	-	-	-	-	-	-
DN-T8	22-8	-	4	4	4	3	2	2	1	1	-	-	-	-	-	-	-
DN-TL14-A	26-14	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-
DN-TL14S-A	26-14	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-
DN-TL14SLP-A	26-14	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-
DN-TL14SLNA	26-14	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-

Multiple Wire Combinations Cont.

Multiple Wire Connection Combinations Cont.																	
		Wire Size AWG (mm ²)															
		#24	#22	#20	#18	#16	#14	#12	#10	#8	#6	#4	#2	#1	1/0	2/0	3/0
		(0.5)	(0.75)	(1)	(1.5)	(2.5)	(4)	(6)	(10)	(16)	(25)	(35)	(50)	(50)	(70)	(80)	
Part Number	UL Rating	Number of the Same Size Wires Per Terminal Block															
DN-FE4	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-FE4L12	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-FE4L24	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-DIS4	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-DIS4L12	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-DIS4L24	24-10	4	4	3	3	2	2	1	1	-	-	-	-	-	-	-	-
DN-FE2	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-FE2L12	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-FE2L24	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-DIS2	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-DIS2L12	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-DIS2L24	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-EMXM1	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-EMXDV	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-QEMXM1	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-
DN-QEMXDV	24-12	4	4	3	2	2	1	1	-	-	-	-	-	-	-	-	-

DINnectors Cross Reference

Allen-Bradley®

The following is a list of comparable but overpriced competitor products. To obtain our high-quality **DINnectors**, simply find the corresponding part number of the unit you currently use. These are approximate replacements based on UL wire size, ampacity and voltage. Please consult the technical section for specifications to determine suitability for your application. Physical size varies from manufacturer to manufacturer.

A-B	DINnectors
1492-CA1	DN-T8
1492-CA1B	DN-T8B
1492-CA1L	DN-T8
1492-CA1LB	DN-T8B
1492-CA2	DN-T8
1492-CA2B	DN-T8B
1492-CAM1	DN-T8
1492-CAM1B	DN-T8B
1492-CAM1L	DN-T8
1492-CAM1LB	DN-T8B
1492-CAM2	DN-T8
1492-CAM2B	DN-T8B
1492-CD2	DN-T4
1492-CD2B	DN-T4B
1492-CE2	DN-T1/0
1492-CE2B	DN-T1/0B
1492-CJ14-2	DN-2J1/0
1492-CJ14-3	DN-3J1/0
1492-CJ8-2	DN-2J8
1492-CJ8-3	DN-3J8
1492-DR3	DN-R15S1
1492-EA15	DN-EB15
1492-EA35	DN-EB35
1492-EB10	DN-EC86
1492-EB16	DN-EC4
1492-EB3	DN-EC1210
1492-EB35	DN-EC1/0
1492-EB4P	DN-ECF
1492-EB6	DN-EC1210
1492-EBD3	DN-DEC10
1492-EBM3	DN-ECM10
1492-EBM4	DN-ECM10
1492-EBTF3	DN-EC14
1492-EBTS3	DN-EC14S
1492-EWP14-4	DN-C1/0
1492-EWP6-4	DN-C12 and DN-DC10
1492-EWP7-4	DN-C10
1492-EWP8-4	DN-C86

A-B	DINnectors
1492-H4	DN-F6110 and DN-F6L220
1492-H5	DN-F6L24
1492-H6	DN-F6
1492-H7	DN-DIS10
1492-N16	DN-EC86 and DN-EC4
1492-N17	DN-EC1/0
1492-N18	DN-EC1210
1492-N21	DN-2J1/0
1492-N25	DN-ASB1
1492-N3	DN-2J8
1492-N30	DN-70J8
1492-N36	DN-EC1210
1492-N40	DN-DEC10
1492-NM16	DN-EC86
1492-NM36	DN-EC1210
1492-NM40	DN-DEC10
1492-PP10	DN-S86
1492-PP16	DN-C4
1492-PP3	DN-S1210
1492-PP6	DN-S1210
1492-SM5x5	DN-LAB
1492-TA40	DN-TPB
1492-W10	DN-T8
1492-W10-B	DN-T8B
1492-W16	DN-T4

A-B	DINnectors
1492-W4P	DN-F10, DN-F10L24, DN-F10L110, and DN-F10L220
1492-W70	DN-T3/0
1492-WD4DF	DN-D10DF
1492-WG10	DN-G6
1492-WG16	DN-G4
1492-WG35	DN-G1/0
1492-WG4	DN-G10
1492-WG6	DN-G8
1492-WKD3	DN-KBD12
1492-WMG-3	DN-MG10
1492-WTF3	DN-TL14-A
1492-WTS3	DN-TL14S-A
1492-WTS3LP	DN-TL14SLP-A
1492-WTS3LN	DN-TL14SLN-A
199-DR1	DN-R35S1

DINnectors Cross Reference

Entrelec®

The following is a list of comparable but overpriced competitor products. To obtain our high-quality **DINnectors**, simply find the corresponding part number of the unit you currently use. These are approximate replacements based on UL wire size, ampacity and voltage: please consult the technical section for specifications to determine suitability for your application. Physical size varies from manufacturer to manufacturer.

Entrelec	DINnectors
007 865.26	DN-TPB
008 521.26	DN-ASB1
103 002.26	DN-EB35
105 004.22	DN-T8ORG
105 504.15	DN-KBD12
105 118.20	DN-T8YEL
105 128.22	DN-T8GRN
114 825.05	DN-S1210, DN-S86
115 118.11	DN-T8
115 120.17	DN-T6
115 124.07	DN-T1/0
115 129.14	DN-T4
115 210.21	DN-T4
115 214.11	DN-D1S10
115 216.13	DN-T3/0
115 260.03	DN-T8
115 261.20	DN-T6
115 377.24	DN-F6
115 537.05	DN-TL14SLP-A
115 538.16	DN-TL14SLN-A
115 541.11	DN-TL14-A
115 542.12	DN-TL14S-A
115 657.25	DN-F10
115 659.07	DN-F10
115 660 04	DN-DIS10
115 661.21	DN-F10L110, DN-F10L220

Entrelec	DINnectors
115 663.23	DN-F10L24
115 665.25	DN-F10L24
115 667.27	DN-F10L110, DN-F10L220
115 686.13	DN-DIS10
115 688.25	DN-DIS10
116 656.25	DN-DEC10
116 771.2	DN-EC14
116 951.15	DN-ECF
117 600.03	DN-ECM10
118 233.27	DN-EC1/0
118 368.16	DN-EC1210, DN-EC86
118 499.23	DN-DEC10
118 618.01	DN-EC4
118 707.03	DN-S1210, DN-S86
125 118.13	DN-T8B
125 120.11	DN-T6B
125 124.01	DN-T1/0B
125 129.16	DN-T4B
125 216.15	DN-T3/0B
160 496.26	DN-MG10
163 043.21	DN-TPR
163 427.17	DN-C10, DN-C86
163 428.20	DN-C86
163 429.21	DN-C86
163 430.26	DN-C4
163 431.13	DN-C1/0
164 600.12	DN-R15S1
164 716.21	DN-EB15
165 111.14	DN-G1/0
165 113.16	DN-G10
165 114.17	DN-G8
165 115.10	DN-G6
165 130.23	DN-G4
165 488.27	DN-G10
168 520.05	DN-2J8
168 521.22	DN-3J8
168 522.23	DN-4J8

Entrelec	DINnectors
168 974.00	DN-70J8
173 206.04	DN-MC10
173 220.05	DN-R35S1
173 611.21	DN-2J6
173 612.22	DN-3J6
173 613.23	DN-4J6
173 615.25	DN-55J6
174 300.17	DN-R351
176 228.04	DN-4JM10
176 422.17	DN-2JL14-A
176 423.10	DN-3JL14-A
176 424.11	DN-4JL14
179 613.01	DN-2J1/0
179 614.02	DN-3J1/0
179 615.03	DN-4J1/0
199 014.11	DN-F6
199 095.13	DN-F6
199 105.22	DN-F6
199 166.26	DN-F6L24
199 168.00	DN-F6L110, DN-F6L220
231 000.07	DN-LB
231 002.25	DN-L50
231 003.26	DN-L50
231 004.27	DN-L50
231 005.20	DN-L50
231 006.21	DN-L50
231 007.22	DN-L100
231 008.08	DN-L100
231 009.04	DN-L100
231 010.20	DN-L100
231 011.15	DN-L100

DINnectors Cross Reference

Phoenix Contact®

The following is a list of comparable but overpriced competitor products. To obtain our high-quality **DINnectors**, simply find the corresponding part number of the unit you currently use. These are approximate replacements based on UL wire size, ampacity and voltage. Please consult the technical section for specifications to determine suitability for your application. Physical size varies from manufacturer to manufacturer.

Phoenix	DINnectors
02 01 27 8	DN-3J1/0
02 01 33 3	DN-2J1/0
02 01 73 1	DN-TPB
02 03 26 3	DN-70J8
02 03 27 6	DN-55J6
02 03 45 4	DN-41J4
04 41 01 2	DN-G10
04 41 02 5	DN-G10
04 41 08 3	DN-G10
04 41 11 9	DN-G10
04 41 50 4	DN-G10
04 42 01 1	DN-G8
04 43 01 0	DN-G6
04 43 02 3	DN-G4
04 43 05 2	DN-G4
04 43 06 5	DN-G4
04 44 01 9	DN-G1/0
04 52 01 4	DN-MG10
04 52 02 7	DN-MG10
06 01 29 2	DN-TPR
08 01 68 1	DN-R351
08 01 73 3	DN-R35S1
09 20 08 3	DN-F10
10 50 00 4	DN-LB
10 50 01 7	DN-L100
12 01 09 9	DN-ASB1
12 01 44 2	DN-EB35
14 01 68 2	DN-R15S1
14 02 78 8	DN-MG10
14 13 02 3	DN-ECM10
14 13 04 9	DN-ECM10
14 13 11 7	DN-MG10
14 13 27 2	DN-EC14S

Phoenix	DINnectors
14 13 28 5	DN-EC14
14 14 03 5	DN-ECM10
14 15 02 1	DN-ECM10
14 21 65 9	DN-EB15
27 15 85 6	DN-TL14SLP-A
27 15 96 6	DN-TL14S-A
27 15 97 9	DN-TL14-A
27 15 99 5	DN-TL14SLN-A
27 70 02 4	DN-DEC10
27 71 02 3	DN-DEC10
27 91 35 9	DN-D10LED2
28 00 56 7	DN-D10DF
30 01 02 2	DN-EC1210
30 01 39 4	DN-DEC10

Phoenix	DINnectors
30 03 02 0	DN-EC1210, DN-EC86, and DN-EC4
30 03 22 4	DN-S1210, DN-S86
30 04 10 0	DN-F10
30 04 12 6	DN-F10L24
30 04 14 2	DN-F10L110, DN-F10L220
30 04 17 1	DN-F6
30 04 24 9	DN-F6L110, DN-F6L220
30 04 26 5	DN-F6L24
30 04 52 4	DN-T8
30 04 97 7	DN-T8B
30 05 01 5	DN-T8
30 05 07 3	DN-T6
30 05 08 6	DN-T6B
30 05 09 9	DN-T8B
30 05 10 9	DN-F10
30 05 68 8	DN-F10
30 06 01 4	DN-T6
30 06 02 7	DN-EC4, DN-EC86
30 06 04 3	DN-T4
30 06 05 6	DN-T4B
30 06 09 8	DN-T6B
30 06 15 3	DN-T4
30 06 18 2	DN-T4
30 06 20 5	DN-T4B
30 08 01 2	DN-T1/0
30 08 02 5	DN-T1/0B
30 09 01 1	DN-T4
30 09 10 5	DN-T1/0B
30 09 11 8	DN-T1/0
30 10 01 3	DN-T3/0
30 10 13 6	DN-T3/0B
31 00 31 8	DN-MG10
31 00 32 1	DN-ECM10
31 01 01 6	DN-KBD12
31 18 01 2	DN-F10
31 18 20 3	DN-F10

DINnectors Cross Reference

Weidmuller®

The following is a list of comparable but overpriced competitor products. To obtain our high-quality DINnectors, simply find the corresponding part number of the unit you currently use. These are approximate replacements based on UL wire size, ampacity and voltage. Please consult the technical section for specifications to determine suitability for your application. Physical size varies from manufacturer to manufacturer.

Weidmuller	DINnectors
11002	DN-T6
11006	DN-T6
11007	DN-T6B
11008	DN-T6B
11750	DN-R15S1
11792	DN-EC1210, DN-EC86
11796	DN-EC1210, DN-EC86
12360	DN-2J1/0
12370	DN-3J1/0
12380	DN-4J1/0
13012	DN-S1210, DN-S86
13016	DN-S1210, DN-S86
13916	DN-T3/0
15096	DN-EC1210
16400	DN-ASB
17216	DN-DIS10
17870	DN-C1/0
18040	DN-TPB
19016	DN-G6
19122	DN-F10
19132	DN-ECF
19186	DN-S1210
19322	DN-T8
19326	DN-T8
19328	DN-T8B
21286	DN-T8
24892	DN-F6
27102	DN-T4
27106	DN-T4
27108	DN-T4B
27112	DN-EC4
27116	DN-EC4
27952	DN-EC1210
27956	DN-EC1210

Weidmuller	DINnectors
28060	DN-TPR
29446	DN-ECM10
30282	DN-S1210
30286	DN-S1210
30340	DN-MC10
30352	DN-T1/0
30356	DN-T1/0
30358	DN-T1/0B
30362	DN-EC1/0
30366	DN-EC4, DN-EC1/0
33640	DN-2JM10
33660	DN-4JM10
33860	DN-31J1/0
34056	DN-ECM10
34072	DN-DIS10
34082	DN-T3/0
35456	DN-G10
35466	DN-G8
35476	DN-G4
35752	DN-DIS10
35926	DN-DEC10
36820	DN-2JM10
36840	DN-4JM10
36860	DN-82JM12

Weidmuller	DINnectors
37087	DN-T3/0B
37466	DN-G6
38026	DN-MG10
38036	DN-ECF
38052	DN-T8
38056	DN-T8
38057	DN-T8B
38058	DN-T8B
38062	DN-T4
38066	DN-T4
38068	DN-T4B
38076	DN-T1/0
38078	DN-T1/0B
38286	DN-EB15
38340	DN-R351
41216	DN-DIS10
44372	DN-T6
44376	DN-T6
44377	DN-T6B
44378	DN-T6B
45056	DN-EC1210
45670	DN-2J8
45680	DN-3J8
45690	DN-4J8
45700	DN-70J8
45710	DN-2J6
45720	DN-3J6
45730	DN-4J6
45740	DN-55J6
45750	DN-2J4
45760	DN-3J4
45770	DN-4J4
45780	DN-41J4
46056	DN-EC1210

DINnectors Cross Reference

Weidmuller®

The following is a list of comparable but overpriced competitor products. To obtain our high-quality **DINnectors**, simply find the corresponding part number of the unit you currently use. These are approximate replacements based on UL wire size, ampacity and voltage. Please consult the technical section for specifications to determine suitability for your application. Physical size varies from manufacturer to manufacturer .

Weidmuller	DINnectors
47336	DN-LB
47346	DN-L50
47436	DN-G10
47456	DN-F10
50160	DN-F10
50162	DN-F10
51450	DN-R35S1
53586	DN-TPB
55052	DN-T3/0
55062	DN-T1/0
55066	DN-T1/0
56490	DN-2J1/0
56500	DN-3J1/0
56510	DN-4J1/0
56520	DN-31J1/0
57670	DN-C1/0, DN-C4
60822	DN-T1/0
60826	DN-T4, DN-T1/0
60837	DN-T1/0B
66106	DN-G10
66116	DN-G10
66126	DN-G8
66136	DN-G8
66146	DN-G4
66222	DN-T3/0
66227	DN-T3/0B
66752	DN-F6
101010	DN-G10
101020	DN-G8
101030	DN-G8
101040	DN-G6
101050	DN-G1/0
101100	DN-F10
101110	DN-KBD12
101130	DN-F10L24

Weidmuller	DINnectors
101230	DN-F10L110
101240	DN-F10L220
101400	DN-F6
101410	DN-F6L24
101430	DN-F6L110
101440	DN-F6L220
102020	DN-T8
102028	DN-T8B
102030	DN-T6
102038	DN-T6B
102040	DN-T6
102048	DN-T6B
102050	DN-T4
102058	DN-T4B
102340	DN-D10DF
102460	DN-T1/0
102468	DN-T1/0B
103150	DN-T1/0
103158	DN-T1/0B
105000	DN-EC1210 and DN-EC86
105010	DN-S1210, DN-S86
105018	DN-S86
105236	DN-2J8
105256	DN-J26

Weidmuller	DINnectors
105306	DN-2J4
105316	DN-41J4
105326	DN-2J6
105336	DN-55J6
105386	DN-4JM10
105476	DN-3J8
105486	DN-4J8
105496	DN-3J6
105506	DN-4J6
105516	DN-3J6
105526	DN-4J6
105536	DN-3J4
105546	DN-4J4
105596	DN-C4, DN-C86
105606	DN-C12, DN-C10
105616	DN-C86
105910	DN-DEC10
106120	DN-EB35
106286	DN-C1/0
106350	DN-2J1/0
106360	DN-3J1/0
130336	DN-MG10
131250	DN-2JL14
131260	DN-3JL14
131270	DN-4JL14
131326	DN-EC14S
131336	DN-TL14S
131706	DN-TL14
131766	DN-EC14
139716	DN-DEC10
157851	DN-TL14SLP-A
157855	DN-TL14SLN-A
912019	DN-D10LED2
912026	DN-D10LED2
951219	DN-T3/0
951222	DN-T3/0
951242	DN-T3/0B
951243	DN-T3/0B

Screwless DINnectors At a Glance

Feed-through Terminal Blocks

Feed-through terminal blocks are available in a number of wire size options to ensure flexibility and ease of installation for your DIN-rail mounted connection system.



DN-Q12-A



DN-Q10-A



DN-Q8-A



Note: All feed-through terminal blocks come in gray or blue

Multi-level Terminal Blocks

Double-level terminal blocks offer twice the wiring density of feed-through blocks.



DN-QD12-A



DN-QD12DR-A



DN-QD12L2-A



DN-QD12X-A

Ground Terminal Blocks

Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail, thus allowing the rail to function as a ground bus bar.



DN-QG12



DN-QG10



DN-QG8



DN-QG12-1-2

Common Point Terminal Blocks

Common point blocks allow multiple wires to be connected by way of multiple spring clamps.



DN-Q12-1-2-A



DN-Q12-1-2DR-A



DN-Q12-1-2-A



DN-Q12-2-2-A

Disconnect Terminal Block



DN-QKBD12-A

The DN-QKBD12-A allows fast circuit disconnection without rewiring.

Plug-in Terminal Blocks



DN-QEMX series

Marking Tags & Accessories



DN-Q2J DN-QEC Series

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.

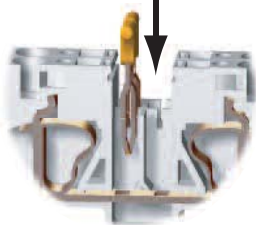
Are there any trade-offs of going screwless versus screw-type?

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?

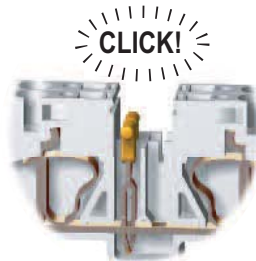
1

Properly align jumper bar with terminal block center jumper slots.

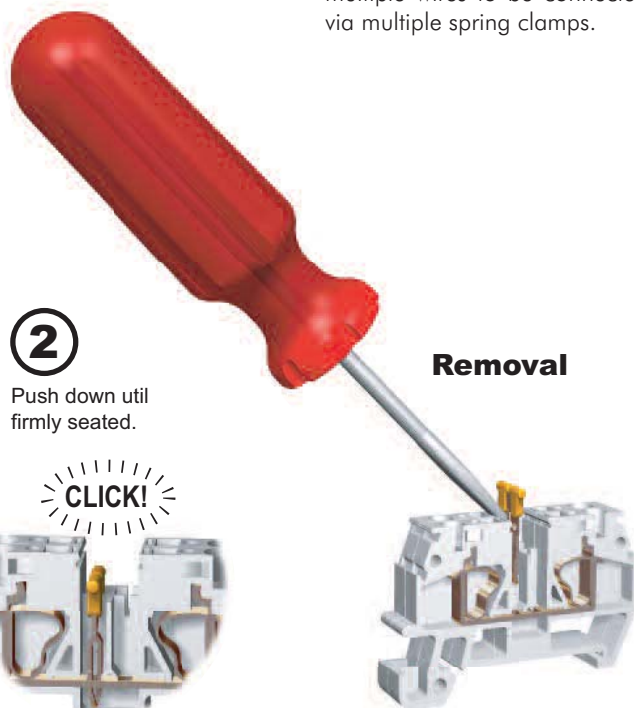


2

Push down until firmly seated.

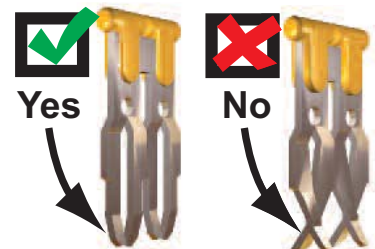
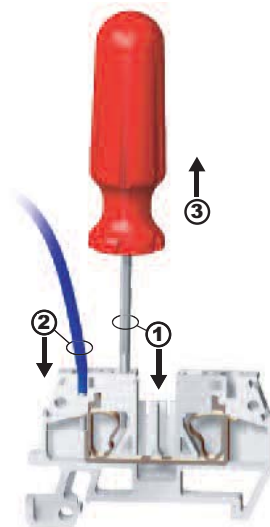


Removal



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

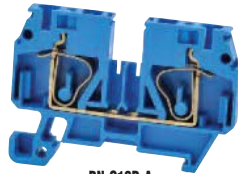
No = Bad, damaged jumper

Screwless Feed-Through Terminal Blocks

Feed-through terminal blocks provide the means to connect two wires together, and are available in sizes suitable for up to 8 AWG wire.



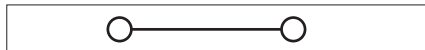
DN-Q12-A
(Euro Q2.5/35)



DN-Q10B-A
(Euro Q4/35)



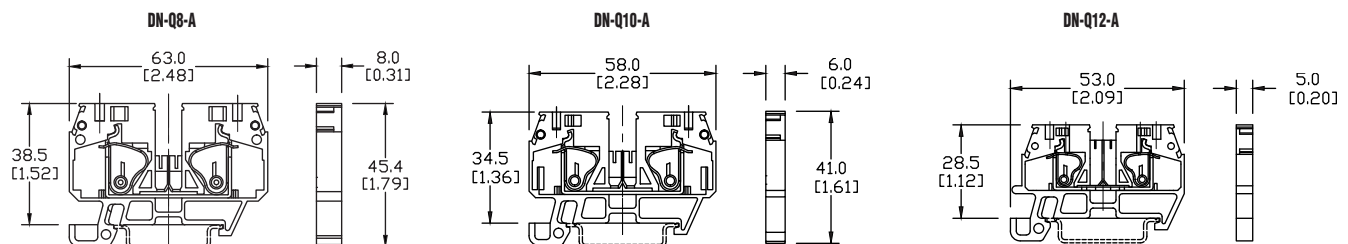
DN-Q8-A
(Euro Q6/35)



Feed-Through Screwless Terminal Blocks									
	Part Number	Price	Pcs/Pkg	Part Number	Price	Pcs/Pkg	Part Number	Price	Pcs/Pkg
Gray Terminal Block	DN-Q12-A	<--->	50	DN-Q10-A	<--->	50	DN-Q8-A	<--->	50
Blue Terminal Block	DN-Q12B-A	<--->	50	DN-Q10B-A	<--->	50	DN-Q8B-A	<--->	50
Description	Screwless feed-through terminal blocks			Screwless feed-through terminal blocks			Screwless feed-through terminal blocks		
Specifications									
UL Approval	600V	20A	24-12AWG	600V	30A	24-10AWG	600V	45A	22-8AWG
CSA Approval	600V	20A	24-12AWG	600V	30A	24-10AWG	600V	45A	22-8AWG
VDE Approval	630V	24A	2.5mm ²	630V	32A	4mm ²	630V	41A	6mm ²
CE Conformity	LVD 2006/95/EC			LVD 2006/95/EC			LVD 2006/95/EC		
Agency File	UL: E179129			UL: E179129			UL: E179129		
Wire Strip Length	0.47" (12mm)			0.59" (15mm)			0.71" (18mm)		
Density	60 pcs./ft. (200/m)			50 pcs./ft. (166/m)			38 pcs./ft. (125/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	Part Number	Price	Pcs/Pkg	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	<--->	50	DN-QEC10	<--->	50	DN-QEC8	<--->	50
Jumper	DN-2J2Y	<--->	100	DN-2J4Y	<--->	100	DN-2J6Y	<--->	100
	DN-3J2Y	<--->	100	DN-3J4Y	<--->	100	DN-3J6Y	<--->	100
	DN-24J2Y	<--->	5	DN-24J4Y	<--->	5	DN-12J6Y	<--->	10
Cutting Tool	DN-J2CUT	<--->	1	DN-J4CUT	<--->	1	N/A		-
Marking Tags	DN-QL Series							various	500
Angled Support Bracket	DN-ASB1							<--->	50

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

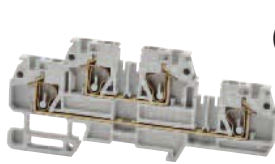
Dimensions mm [inches]



Screwless Double-Level Terminal Blocks

DN-QD12-A DN-QD12X-A

Double-level terminal blocks offer twice the wiring density of feed-through blocks. The DN-QD12X-A version is supplied with an internal jumper to common all four of its connection points.



DN-QD12X-A
(Euro QD2.5/35)

LED version

This style is available with LED indicator installed. The LED illuminates when voltage is present. The DN-QD12L2-A version is for 12 - 24V AC/DC circuits, and includes current limiting elements.



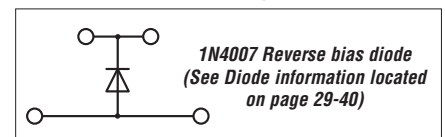
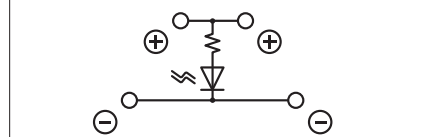
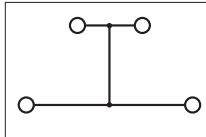
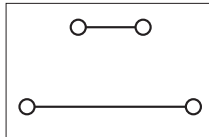
DN-QD12L2-A
(Euro QD2.5/35)

Diode version

Typically, an inductive load produces a spike when it is turned off. These terminal blocks with built-in diode help protect your PLC's output circuits. (Please see application note AN-MISC-032 at <http://support.automationdirect.com/docs/an-misc-032.pdf>)

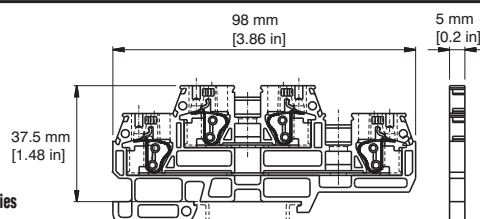


DN-QD12DR-A
(Euro QD2.5/35)



Double - Level 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-QD12-A	<--->	25	DN-QD12X-A	<--->	10	DN-QD12L2-A	<--->	10	DN-QD12DR-A	<--->	10
Blue Terminal Block	DN-QD12B-A	<--->	25	DN-QD12XB-A	<--->	10						
Description	Double-level screwless terminal blocks			Double-level screwless cross- connected terminal blocks			Double-level screwless terminal blocks w/ LED installed for visual circuit indication			Double-level screwless terminal blocks w/ diode installed for circuit protection		
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	500V	24A	2.5mm ²	500V	24A	2.5mm ²	500V	24A	2.5mm ²	500V	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					
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-QDEC12										<--->	25
Jumper	DN-2J2Y										<--->	100
	DN-3J2Y										<--->	100
	DN-24J2Y										<--->	5
Cutting Tool	DN-J2CUT										<--->	1
Marking Tags	DN-QL Series										various	500
Angled Support Bracket	DN-ASB1										<--->	50

Dimensions



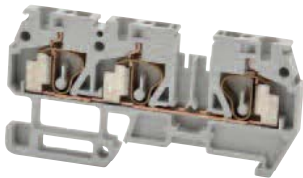
DN-QD12*-A Series

*Note: Jumpering and testing capability on bottom level only, for DN-QD12X, DN-QD12L2 and DN-QD12DR.

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.

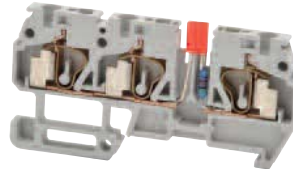
These versions allow multiple wires to be connected together by way of multiple spring clamps. LED and diode variations are also available in this style.



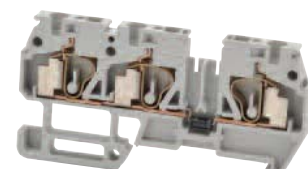
DN-Q12-1-2-A
Series: EURO QM1/2 2.5/35



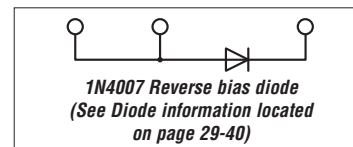
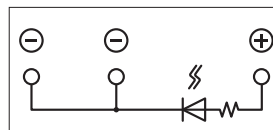
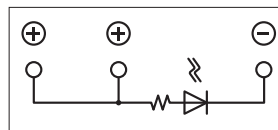
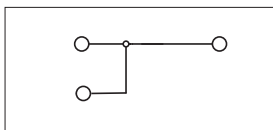
DN-Q12-1-2L1-A
Series: EURO QM1/2 2.5/35



DN-Q12-1-2L2-A
Series: EURO QM1/2 2.5/35



DN-Q12-1-2DR-A
Series: EURO QM1/2 2.5/35



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				N/A	
	DN-3J2Y	<--->	100										
	DN-24J2Y	<--->	5										
Cutting Tool	DN-J2CUT										<--->	1	
Marking Tags	DN-QL Series										various	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

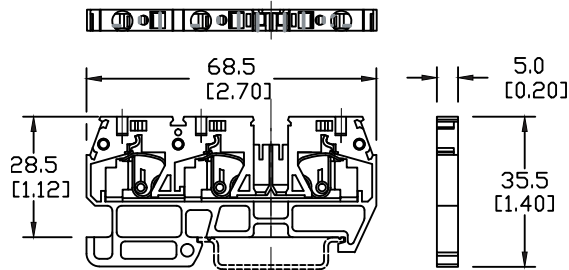
1N4007 Diode Information		
RMS Reverse Voltage*	V (Rrms)	600V
Average Rectified Forward Current Single Phase, Resistive Load, 60 Hz	I (O)	1.0 A
Non-Repetitive Peak Surge Current (Surge applied at rated load)	I (FSM)	30 A (1 cycle)
Maximum Forward Voltage Drop [I (F) = 1.0 A]	V (F)	1.1 V
Maximum Reverse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

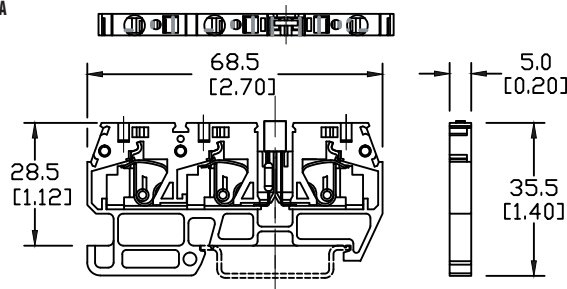
Dimensions

mm [inches]

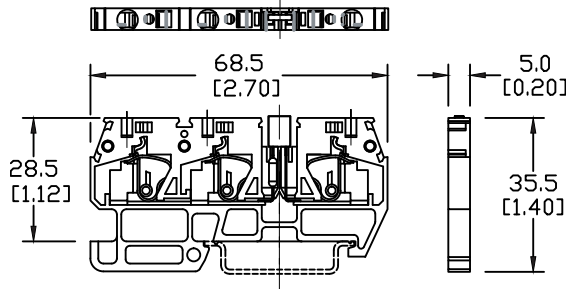
DN-Q12-1-2-A



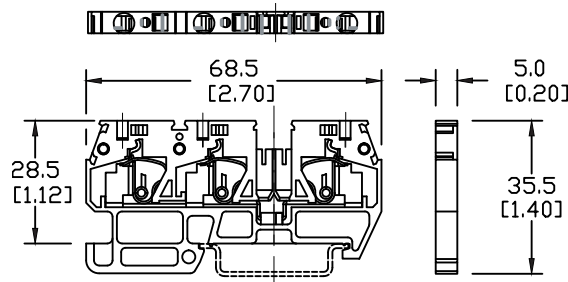
DN-Q12-1-2L1-A



DN-Q12-1-2L2-A

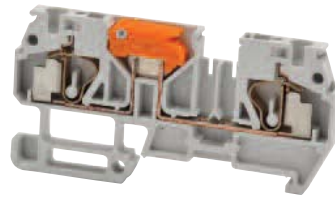


DN-Q12-1-2DR-A

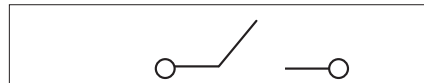


Screwless Knife-Blade Disconnect Terminal Blocks

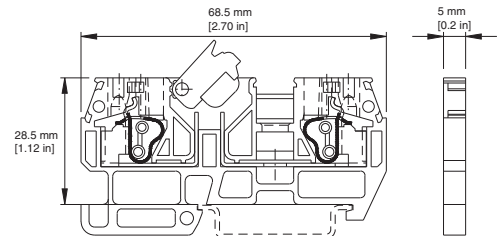
The DN-QKBD12-A allows fast circuit disconnection without rewiring. This model provides circuit disconnection capability by means of a pivoting, insulated "knife blade."



DN-QKBD12-A (Euro QT2.5/35)



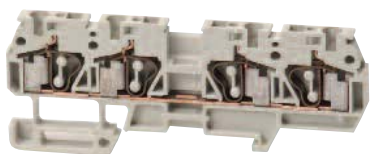
Dimensions mm [inches]



Knife - Blade Disconnect Screwless Terminal Block			
	Part Number	Price	Pcs/Pkg
Gray Terminal Block	DN-QKBD12-A	<--->	25
Description	Knife-blade disconnect screwless terminal block for 24-12 AWG wire		
Specifications			
UL Approval	600V	20A	24-12AWG
CSA Approval	600V	20A	24-12AWG
VDE Approval	630V	24A	2.5mm ²
CE Conformity	LVD 2006/95-EC		
Agency File	UL: E179129		
Wire Strip Length	0.47" (12mm)		
Density	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	<--->	50
	DN-EB35-A-10	<--->	10
	DN-QEB35	<--->	50
	DN-QEB35-10	<--->	10
End Cover	DN-QEC12-1-2	<--->	25
Jumper	DN-2J2Y	<--->	100
	DN-3J2Y	<--->	100
	DN-24J2Y	<--->	5
Cutting Tool	DN-J2CUT	<--->	1
Marking Tags	DN-QL Series	various	500
Angled Support Bracket	DN-ASB1	<--->	50

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

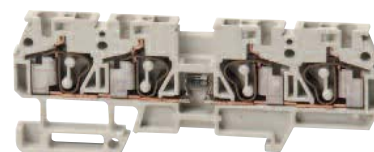
Screwless Two-Connection to Two-Connection Terminal Blocks



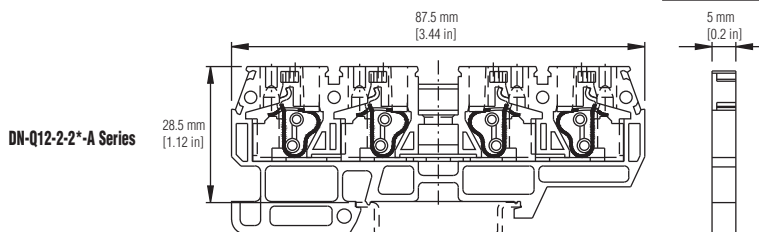
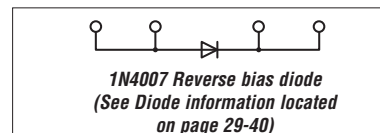
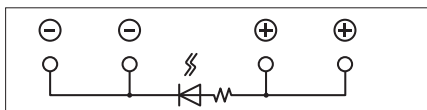
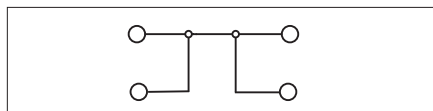
DN-Q12-2-2-A
Series: EURO QM2/2 2.5/35



DN-Q12-2-2L2-A
Series: EURO QM2/2 2.5/35



DN-Q12-2-2D2-A
Series: EURO QM2/2 2.5/35

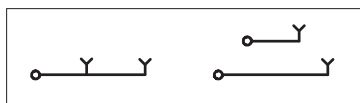


Two-Connection to Two-Connection Common Point Screwless Terminal Blocks									
	Part Number	Price	Pcs/Pkg	Part Number	Price	Pcs/Pkg	Part Number	Price	Pcs/Pkg
Gray Terminal Block	DN-Q12-2-2-A	<--->	25	DN-Q12-2-2L2-A	<--->	10	DN-Q12-2-2D2-A	<--->	10
Blue Terminal Block	DN-Q12B-2-2-A	<--->	25						
Description	Two-connection to two-connection screwless terminal block for 24-12AWG wire			Two-connection to two-connection screwless terminal block for 24-12 AWG wire. LED installed for visual circuit indication			Two-connection to two-connection screwless terminal block for 24-12 AWG wire. Reverse bias diode installed for circuit protection		
Specifications									
UL Approval	600V	20A	24-12AWG	600V	20A	24-12AWG	600V	1A (Diode)	24-12AWG
CSA Approval	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	1A (Diode)	2.5mm ²
CE Conformity	LVD 2006/95-EC			LVD 2006/95-EC			LVD 2006/95-EC		
Agency File	UL: E179129			UL: E179129			UL: E179129		
LED Voltage	-			12 - 24V AC/DC. 3.4 kΩ					
Wire Strip Length	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)		
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-QEC12-2-2							<--->	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							various	500
Angled Support Bracket	DN-ASB1							<--->	50

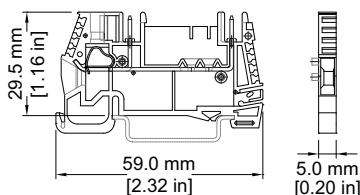
For more information on accessories, see the DINnectors Accessories section of this chapter.

Screwless Plug-In Terminal Blocks

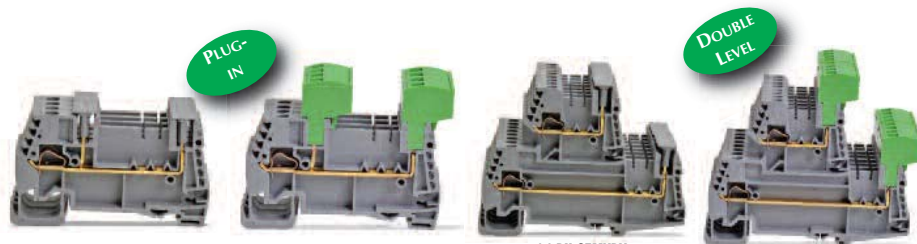
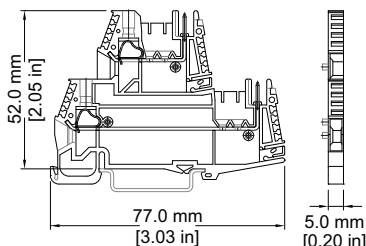
Single and double-level DN-QEMXxx screwless plug-in terminal blocks with spring terminals accept all DN-xxPLUG Euro plugs.



DN-QEMXM1



DN-QEMXDV



(4) DN-QEMXM1
Series: EURO XM1/2v 2.5/35

(4) DN-QEMXM1 with (2) DN-4PLUG

(4) DN-QEMXDV
Series: EURO XDV 2.5/35

(4) DN-QEMXDV with (2) DN-4PLUG

Gray Term Block	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
	DN-QEMXM1	32	<-->	DN-QEMXDV	32	<-->

Plug-In Terminal Blocks Specifications

Levels	single			double		
UL Approval *	300V	12A	24-12 AWG*	300V	11A**	24-12 AWG*
Agency File #	E179129 (recognized in U.S. & Canada)					
Wire Strip Length	0.31 in (8mm)					
Tightening Torque	N/A (screwless terminals)					
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					

* For copper wire only. ** DN-QEMXDV rated 12A for stranded wire; 11A for solid wire

Accessories

	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg
End Bracket	DN-EB35				50	<-->
	DN-EB35MN				20	<-->
	DN-EB35-A or DN-QEB35				50	various
	DN-EB35-A-10 or DN-QEB35-10				10	various
End Cover	left (open) side	DN-EMXM1EC1	25	<-->	DN-EMXDVEC1	<-->
	right (closed) side	DN-EMXM1EC2		<-->	DN-EMXDVEC2	<-->
Spacer	either side	DN-EMXM1SPA1		<-->	DN-EMXDVSPA1	<-->
Jumpers*	DN-2J2Y				100	<-->
	DN-3J2Y				100	<-->
	DN-24J2Y				5	<-->
Jumper Cutting Tool *	DN-J2CUT				1	<-->
Pin Protector – 4-pole	DN-EMPEG1 each piece covers and protects up to 4 unused pins				16	<-->
Marking Tags	DN-LAB, DN-LT, or DN-EMBL series				500/100	various
Angled Support Bracket	DN-ASB1				50	<-->
DIN Rail (35 mm)	DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)				10	various
	DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)				2	various

Accessories – Terminal Plugs

Plugs* Part #	# of Poles	Length	Pcs/Pkg	Price/Pkg
DN-2PLUG	2	L = 0.40 in [10.2 mm]	200	<-->
DN-3PLUG	3	L = 0.60 in [15.2 mm]	200	<-->
DN-4PLUG	4	L = 0.80 in [20.3 mm]	100	<-->
DN-5PLUG	5	L = 1.00 in [25.4 mm]	100	<-->
DN-6PLUG	6	L = 1.20 in [30.5 mm]	100	<-->
DN-7PLUG	7	L = 1.40 in [35.6 mm]	50	<-->
DN-8PLUG	8	L = 1.60 in [40.6 mm]	50	<-->
DN-9PLUG	9	L = 1.80 in [45.7 mm]	50	<-->
DN-10PLUG	10	L = 2.00 in [50.8 mm]	50	<-->
DN-11PLUG	11	L = 2.20 in [55.9 mm]	50	<-->
DN-12PLUG	12	L = 2.40 in [61.0 mm]	50	<-->

Terminal Plugs Ratings

Voltage/Current	300V, 12A
Wire Gauge	14-22 AWG, CU only
Torque	Tightening Torque: 4.5 lb-in [0.51 Nm]
Operating Temperature	Operating 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)
Agency Approvals	UL file #: E179129

* DN-xxPLUGs fit all DN-EMXxx & DN-QEMXxx plug-in terminal blocks.



Company Information

Systems Overview

Programmable Controllers

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/Lights

Process

Relays/Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics

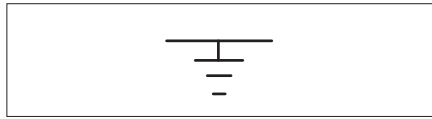
Safety

Appendix

Product Index

Part # Index

Screwless Ground Terminal Blocks



Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail by means of a conducting clamping foot. In this way, the DIN rail can function as a ground bus bar.

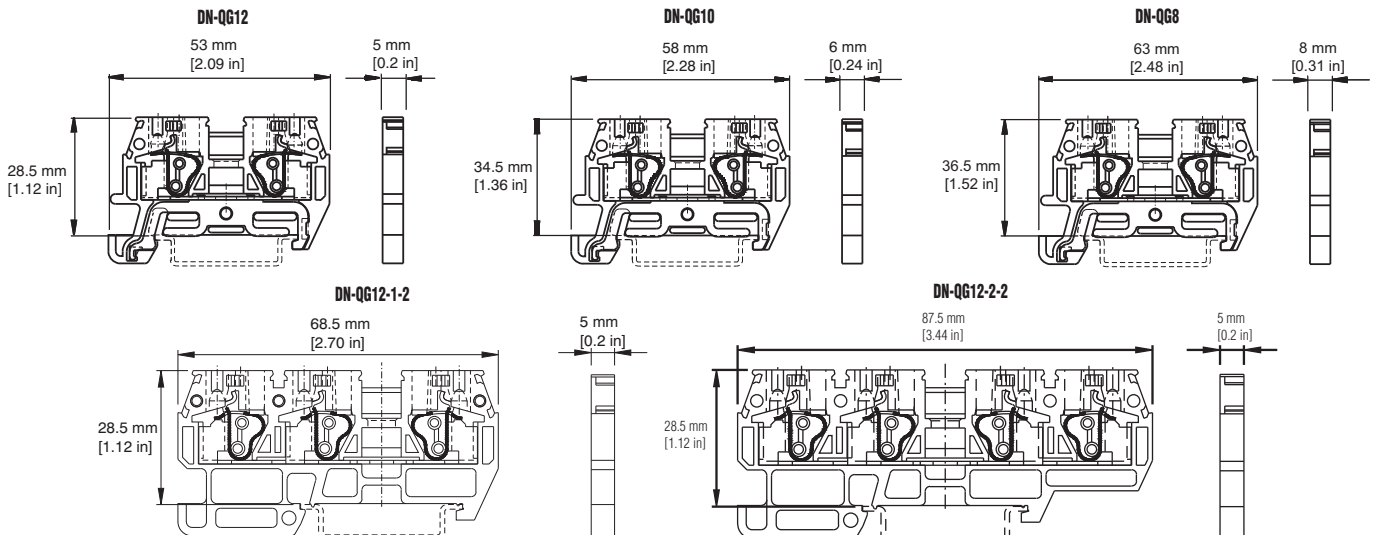
Ground blocks are molded in green and yellow per international standards.



DN-QG12 (Euro QE2.5/35)

Screwless Ground Terminal Blocks																
	Part Number	Price	Pcs /Pkg	Part Number	Price	Pcs /Pkg	Part Number	Price	Pcs /Pkg	Part Number	Price	Pcs /Pkg	Part Number	Price	Pcs /Pkg	
Green-Yellow Terminal Block	DN-QG12	<-->	10	DN-QG10	<-->	10	DN-QG8	<-->	10	DN-QG12-1-2	<-->	10	DN-QG12-2-2	<-->	10	
Description	Screwless ground terminal block for 12 AWG wire			Screwless ground terminal block for 10 AWG wire			Screwless ground terminal block for 8 AWG wire			Screwless ground terminal block with 3 connection points for 12 AWG wire			Screwless ground terminal block with 4 connection points for 12 AWG wire			
Specifications																
UL Approval	24-12 AWG			24-10 AWG			22-8 AWG			24-12 AWG			24-12 AWG			
CSA Approval	24-12 AWG			24-10 AWG			22-8 AWG			24-12 AWG			24-12 AWG			
VDE Approval	2.5mm ²			4mm ²			6mm ²			2.5mm ²			2.5mm ²			
CE Conformity	IEC 947-7-2			IEC 947-7-2			IEC 947-7-2			IEC 947-7-2			IEC 947-7-2			
Agency File	UL: E179129			UL: E179129			UL: E179129			UL: E179129I			UL: E179129			
Wire Strip Length	.47" (12mm)			.59" (15mm)			.71" (18mm)			.47" (12mm)			.47" (12mm)			
Density	60 pcs./ft. (200/m)			50 pcs./ft. (166/m)			38 pcs./ft. (125/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	Part Number	Price	Pcs /Pkg	Part Number	Price	Pcs /Pkg	Part Number	Price	Pcs /Pkg	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	<-->	50	DN-QEC10	<-->	50	DN-QEC8	<-->	50	DN-QEC12-1-2	<-->	25	DN-QEC12-2-2	<-->	25	
Jumper	Not Applicable															
Marking Tags	DN-QL Series														various	500
Angled Support Bracket	DN-ASB1														<-->	50

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



DINnectors Accessories

Steel DIN Rails Features

35 mm wide

- Available in 1-meter lengths
- 7.5 mm-high rails primarily used to mount terminal blocks, relays, timers and small PLCs such as the DL05, DL06, DL105, DL205, CLICK, and Productivity3000
- 15 mm-high rails for mounting larger and heavier components such as contactors and larger PLCs

15 mm wide

- Available in 1-meter lengths
- DN-R15S1 exclusively for mounting mini terminal blocks such as the DN-M10-A



	Part Number	Pcs/Pkg	Price/Pkg	Part#	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
DIN Rail	DN-R35S1	10	<--->	DN-R35HS1	10	<--->	DN-R15S1	10	<--->
	DN-R35S1-2	2	<--->	DN-R35HS1-2	2	<--->	DN-R15S1-2	2	<--->
Steel DINnectors Accessories Specifications									
Description	Steel, slotted, 3'3" (1 m) length, 35 mm (1.38 in) wide, 7.5 mm (0.30 in) high			Steel, slotted, 3'3" (1 m) length, 35 mm (1.38 in) wide, 15 mm (0.59 in) high			Steel, slotted, 3'3" (1 m) length, 15 mm (0.59 in) wide, 5.5 mm (0.22 in) high		
Plating	Zinc-plated and chromated								
International Standards	EN60715. RoHS								
Suggested Mounting Screw Type	M6			M6			M4		

Aluminum DIN Rail Features

35 mm wide

- Non-anodized finish
- Zinc plating and passivation (minimum thickness 6 microns)
- Lightweight, easy to cut and deburr
- Terminal blocks only
- Maximum mounting screw #10-32 or M5
- Available in 1-meter lengths

35 mm wide raised

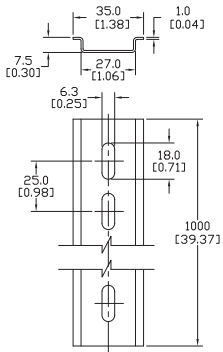
- Non-anodized finish
- Zinc plating and passivation (minimum thickness 6 microns)
- Enables users to raise terminal blocks 2¼" above the back panel
- Terminal blocks only
- Available in 1-meter lengths
- Bushing or grommet recommended for wire access hole (example Heyco UB-875 not sold by ADC)



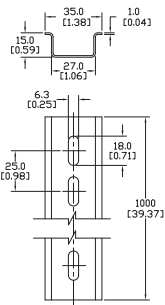
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
DIN Rail	DN-R35SAL1	10	<--->	DN-R35SAL2-2	2	<--->
	DN-R35SAL1-2	2	<--->			
Aluminum DIN Rail Specifications						
Description	Aluminum, slotted, 3'3" (1 m) length, 35 mm (1.38 in) wide, 10 mm (0.39 in) high			Aluminum, slotted, 3'3" (1 m) length, 35 mm (1.38 in) wide, 58 mm (2.28 in) high		
Plating	Galvanic zinc plating, non-anodized finish					
International Standards	DIN 50960, RoHS					
Suggested Mounting Screw Type	#10-32 or M5					

DINnectors Accessories

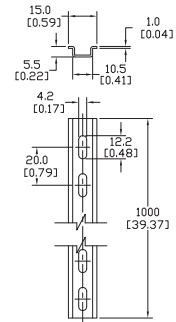
Dimensions mm [inches]



DN-R35S1

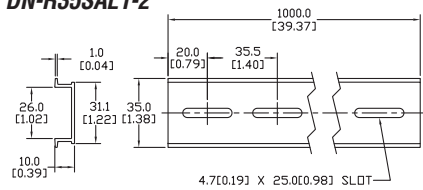


DN-R35HS1

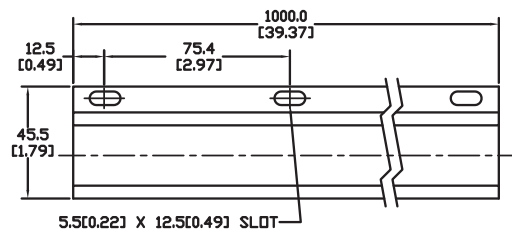
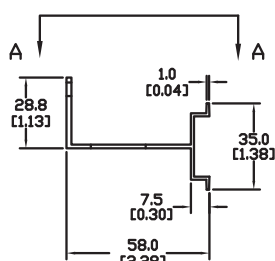
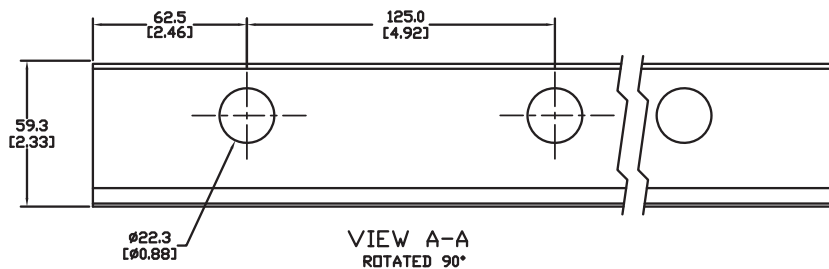


DN-R15S1

**DN-R35SAL1
DN-R35SAL1-2**



DN-R35SAL2-2



DINnectors Brackets and Mounting Clips

DIN rail support brackets

- Angled support brackets raise and tilt mounting rails 30 degrees from mounting surface for easier wiring
- DN-ASB1 plated steel support bracket
- DN-ASB2-10 cold-rolled steel treated with galvanic zinc plating and passivation

DIN rail mounting clips

- Snap small devices not made for mounting onto 35mm DIN rails
- Zinc plated steel

DIN Rail Support Brackets and Mounting Clips			
Part Number	Description	Pcs/Pkg	Price Each
DN-ASB1	30° angled DIN rail support bracket (M6-1.0 screws not included)	50	<--->
DN-ASB2-10	30° angled DIN rail support bracket (M6-1.0 screws included)	10	<--->
DN-SSB25-10	1" (25 mm) DIN rail support bracket (M6-1.0 screws included)	10	<--->
DN-SSB50-10	2" (50 mm) DIN rail support bracket (M6-1.0 screws included)	10	<--->
DN-SSB70-10	2.75" (70 mm) DIN rail support bracket (M6-1.0 screws included)	10	<--->
DN-SSB90-10	3.5" (90 mm) DIN rail support bracket (M6-1.0 screws included)	10	<--->
DN-CLIP-FM4	DIN rail mounting clip with M4 x 0.7 mm threaded hole (Screws not included)	40	<--->
DN-CLIP-FM4-5		5	<--->
DN-CLIP-FM5	DIN rail mounting clip with M5 x 0.8 mm threaded hole (Screws not included)	40	<--->
DN-CLIP-FM5-5		5	<--->



DN-ASB1



DN-ASB2-10



DN-SSB25-10



DN-SSB50-10



DN-SSB70-10



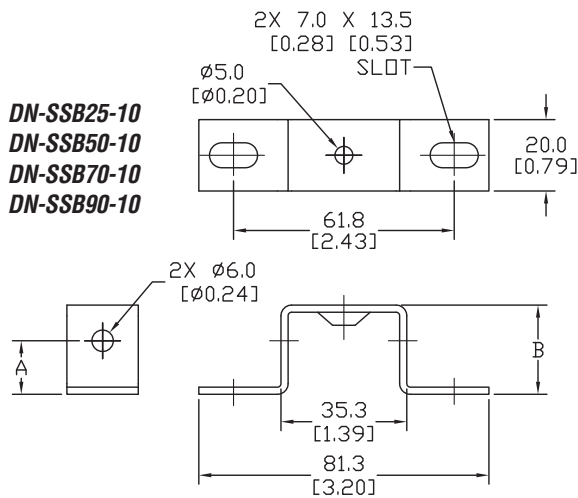
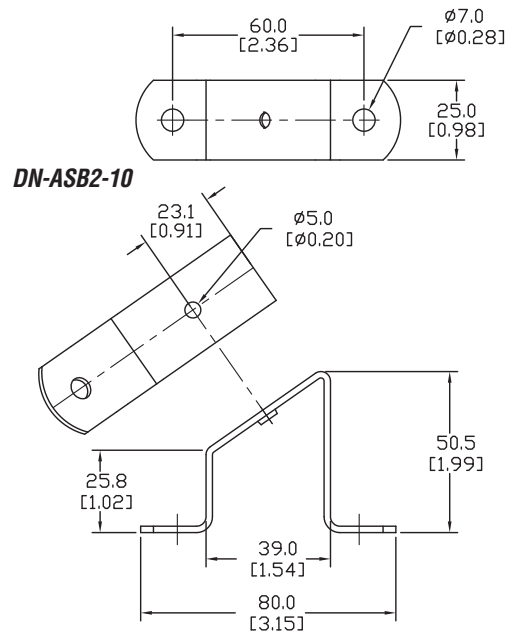
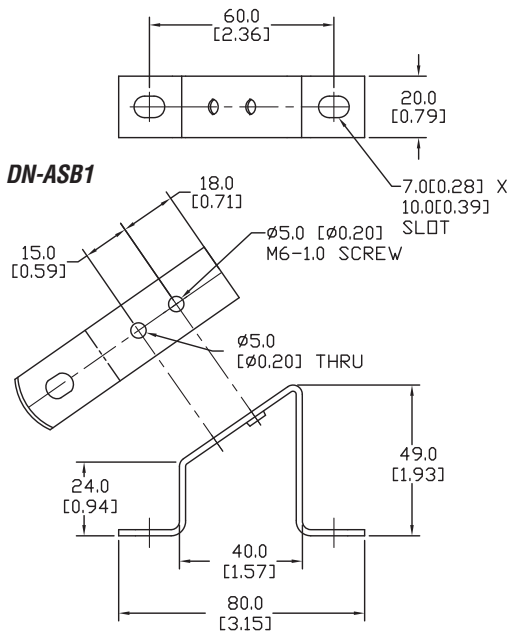
DN-SSB90-10


 DN-CLIP-FM4
DN-CLIP-FM4-5

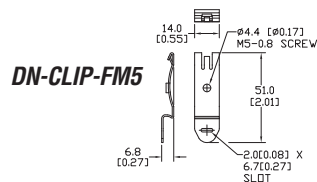
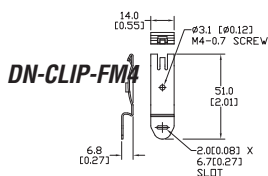
 DN-CLIP-FM5
DN-CLIP-FM5-5

DINnectors Brackets and Mounting Clips

Dimensions mm [inches]



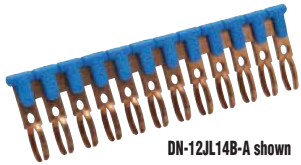
DIN Rail Support Brackets		
Part Number	DIM A mm [inches]	DIM B mm [inches]
DN-SSB25-10	15.0 [0.59]	25.0 [0.98]
DN-SSB50-10	40.0 [1.58]	50.0 [1.97]
DN-SSB70-10	60.0 [2.36]	70.0 [2.76]
DN-SSB90-10	80.0 [3.15]	90.0 [3.54]



DINnectors Accessories

Jumpers

Multi-pole jumper bars for DINnector terminal blocks



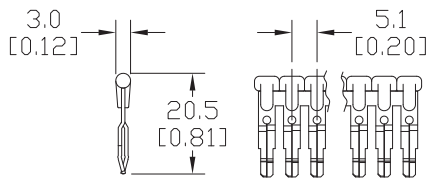
DN-12JL14B-A shown

Multi-pole Jumper Bars							
Part Number	Number of Poles	Voltage	Current Rating	Insulation Color	Works with Terminal Block Series	Pcs/Pkg	Price
DN-2J2Y	2	600V	25A	Orange	DN-T12-A, DN-EMX, DN-Q12-A, DN-QD12-A, DN-QEMX, DN-QKBD12-A	100	<->
DN-2J4Y	2			Yellow	DN-T10-A, DN-D10-A, DN-M10-A, DN-Q10-A	100	<->
DN-2J6Y	2			Green	DN-Q8-A	100	<->
DN-2J6	2			---	DN-T6	100	<->
DN-2JL14B-A	2	300V	20A	Blue	DN-TL-A	100	<->
DN-2JL14-A	2			Red	DN-TL-A	100	<->
DN-3J2Y	3	600V	25A	Orange	DN-T12-A, DN-EMX, DN-Q12-A, DN-QD12-A, DN-QEMX, DN-QKBD12-A	100	<->
DN-3J4Y	3			Yellow	DN-T10-A, DN-D10-A, DN-M10-A, DN-Q10-A	100	<->
DN-3J6Y	3			Green	DN-Q8-A	100	<->
DN-3J6	3			---	DN-T6	100	<->
DN-3JL14B-A	3	300V	20A	Blue	DN-TL-A	100	<->
DN-3JL14-A	3			Red	DN-TL-A	100	<->
DN-4J6	4	600V	65A	---	DN-T6	100	<->
DN-12J6Y	12			30A	Green	DN-Q8-A	10
DN-12JL14B-A	12	300V	20A	Blue	DN-TL-A	10	<->
DN-12JL14-A	12			Red	DN-TL-A	10	<->
DN-24J2Y	24	600V	25A	Yellow	DN-T12-A, DN-EMX, DN-Q12-A, DN-QD12-A, DN-QEMX, DN-QKBD12-A	5	<->
DN-24J4Y	24			Yellow	DN-T10-A, DN-D10-A, DN-M10-A, DN-Q10-A	5	<->
DN-24J8	24			Green	DN-T8	5	<->
DN-55J6	55			65A	---	DN-T6	1

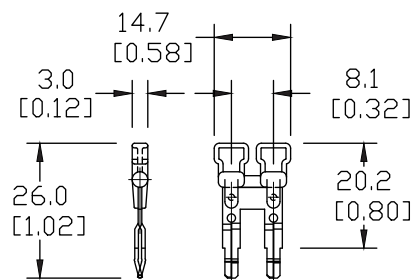
Dimensions

mm [inches]

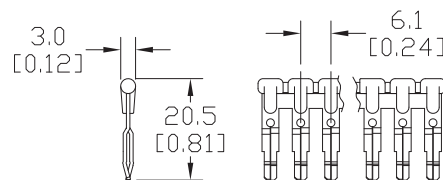
DN-xJ2Y



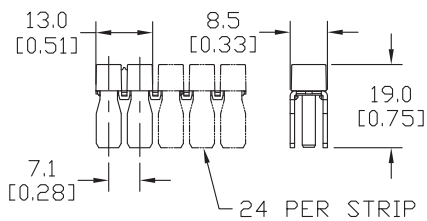
DN-xJ6Y



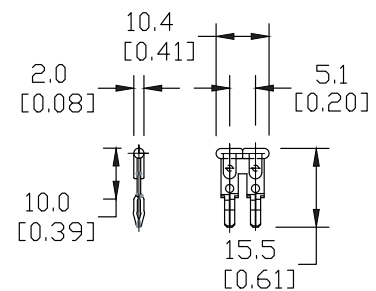
DN-xJ4Y



DN-24J8



DN-xJL14



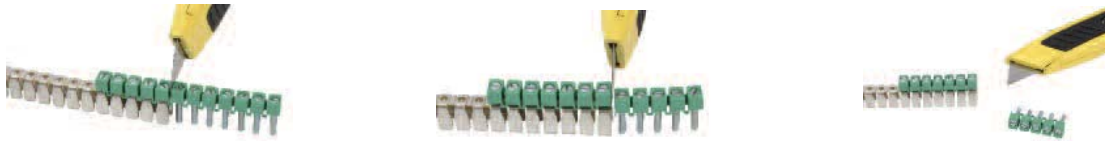
DINnectors Accessories

Modifying a DN-24J8 jumper bar to the required number of poles

- 1) Place the insulating part into the jumper bar and insert screws, based on number of poles required.
(For instance, in the following example, 5 poles are required). Click into place.



- 2) Using a cutting tool, cut the insulating part at the edge of the jumper bar (see below).



- 3) Hold the metal jumper bar and insulating jumper with two hands, placing fingers to the left and right of the pole you wish to cut, repeatedly flexing up and down (1 or 2 times should be sufficient) until the jumper bar and insulating jumper break in two.



- 4) Remove the small remaining piece of jumper (see below). This is important to ensure appropriate insulation distance in the case of contiguously applied jumpers in sequence. This step also facilitates the placement of a separator terminal if the bridge is positioned as the last terminal of a group.



- 5) The jumpers now are ready to be screwed onto DN-T8 series terminal blocks.



Cutting Tool

Cutting Tool for J8 EURO Jumpers			
Part Number	Description	Pcs/Pkg	Price
DN-J2CUT	Cutting tool for DN-2J2Y, DN-3J2Y and DN-24J2Y jumpers. Cuts jumper and maintains protective covering	1	<--->
DN-J4CUT	Cutting tool for DN-2J4Y, DN-3J4Y and DN-24J4Y jumpers. Cuts jumper and maintains protective covering	1	<--->



DN-J2CUT



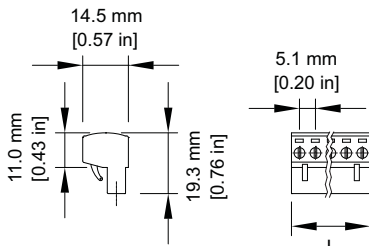
DN-J4CUT

DINnectors Accessories

Terminal Plugs



DN-xxPLUG



Accessories – Terminal Plugs				
Plugs* Part Number	Number of Poles	Length	Pcs/Pkg	Price/Pkg
DN-2PLUG	2	L = 0.40 in [10.2 mm]	200	<--->
DN-3PLUG	3	L = 0.60 in [15.2 mm]	200	<--->
DN-4PLUG	4	L = 0.80 in [20.3 mm]	100	<--->
DN-5PLUG	5	L = 1.00 in [25.4 mm]	100	<--->
DN-6PLUG	6	L = 1.20 in [30.5 mm]	100	<--->
DN-7PLUG	7	L = 1.40 in [35.6 mm]	50	<--->
DN-8PLUG	8	L = 1.60 in [40.6 mm]	50	<--->
DN-9PLUG	9	L = 1.80 in [45.7 mm]	50	<--->
DN-10PLUG	10	L = 2.00 in [50.8 mm]	50	<--->
DN-11PLUG	11	L = 2.20 in [55.9 mm]	50	<--->
DN-12PLUG	12	L = 2.40 in [61.0 mm]	50	<--->

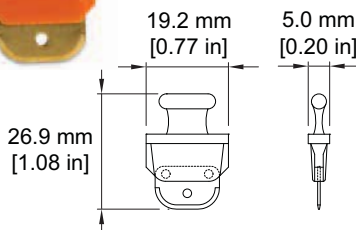
Terminal Plugs Ratings	
Voltage/Current	300V, 12A
Wire Gauge	14–22 AWG, CU only
Torque	Tightening Torque: 4.5 lb-in [0.51 Nm]
Operating Temperature	Operating Temperature: -13°F to 104°F (-25°C to 40°C) Relative humidity: 50% max at 104°F (40°C); 90% max at 68°F (20°C)
Agency Approvals	UL file #: E179129

* DN-xxPLUGs fit all DN-EMXxx & DN-QEMXxx plug-in terminal blocks

Disconnect blade



DN-DIS-BLADE



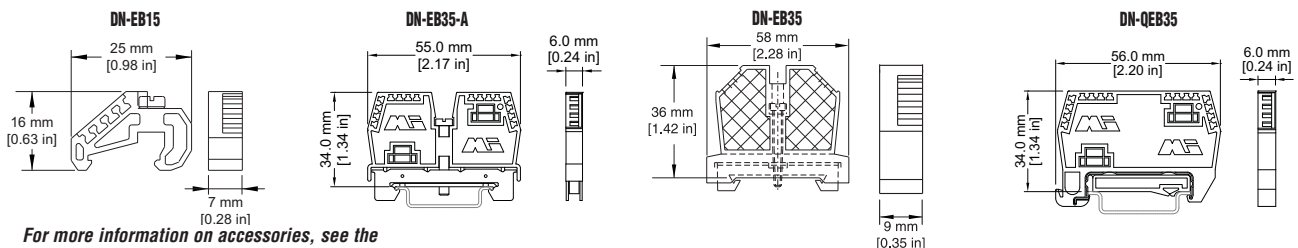
Disconnect Blade			
Part Number	Description	Pcs/Pkg	Price
DN-DIS-BLADE	Use instead of DN-SUPP-x for DN-FE or as replacement for DN-DIS.	50	<--->

Note: Dimensions are in mm [inches]

End Brackets



End Brackets			
Part Number	Description	Pcs/Pkg	Price/Pkg
DN-EB15	Terminal block end stop 7mm width screw clamping. Gray	100	<--->
DN-EB15MN		20	<--->
DN-EB35	Terminal block end stop 9mm width screw clamping. Gray	50	<--->
DN-EB35MN		20	<--->
DN-EB35-A	Terminal block end stop 6mm width screw clamping. Black	50	<--->
DN-EB35-A-10		10	<--->
DN-QEB35	Terminal block end stop 6mm width screwless clamping. Black	50	<--->
DN-QEB35-10		10	<--->



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

DINnectors Accessories

End Covers

Certain end covers can be used with multiple terminal block parts to cover and insulate the open side, or to put more space between adjacent blocks.

DINnector End Covers				
Part Number	Description	Works with terminal block series	Pcs/Pkg	Price
DN-EC1210	Covers open side of DN-T12-A and DN-T10-A series terminal blocks	DN-T10-A, DN-T12-A	100	<=>
DN-EC1210MN			25	<=>
DN-EC86	Covers open side of DN-T8 and DN-T6 series terminal blocks	DN-T8, DN-T6	100	<=>
DN-EC86MN			25	<=>
DN-EC4	Covers open side of DN-T4 series terminal blocks	DN-T4	50	<=>
DN-EC1/0	Covers open side of DN-T1/0 series terminal blocks	DN-T1/0	50	<=>
DN-DEC10	Covers open side of DN-D10 series double-level terminal blocks	DN-D10	100	<=>
DN-EC14	Covers open side of DN-TL14-A series terminal blocks	DN-TL14-A	25	<=>
DN-EC14S	Covers open side of DN-TL14S-A series terminal blocks	DN-TL14S-A	25	<=>
DN-ECM10	Covers open side of DN-M10-A series terminal blocks	DN-M10-A DN-M10B-A	100	<=>
DN-ECM10MN			25	<=>
DN-ECKBD	Covers open side of DN-KBD12 series disconnect blocks	DN-KBD12	100	<=>
DN-EMXM1EC1	Covers open side of DN-EMXM1 and DN-QEMXM1 terminal blocks	DN-EMXM1	25	<=>
DN-EMXM1EC2	Covers closed side of DN-EMXM1 and DN-QEMXM1 terminal blocks	DN-QEMXM1	25	<=>
DN-EMXDVEC1	Covers open side of DN-EMXDV and DN-QEMXDV terminal blocks	DN-EMXDV	25	<=>
DN-EMXDVEC2	Covers closed side of DN-EMXDV and DN-QEMXDV terminal blocks	DN-QEMXDV	25	<=>
DN-FESEP	Covers closed side of DN-FE sockets and DN-DIS disconnects	DN-FE, DN-DIS	50	<=>
DN-FESEP-10			10	<=>
DN-QEC12	Covers open side of DN-Q12-A or DN-QG12-A series screwless terminal blocks	DN-Q12-A	50	<=>
DN-QEC10	Covers open side of DN-Q10-A or DN-QG10-A series screwless terminal blocks	DN-Q10-A	50	<=>
DN-QEC8	Covers open side of DN-Q8-A or DN-QG8-A series screwless terminal blocks	DN-Q8-A	50	<=>
DN-QEC12-1-2	Covers open side of DN-Q12-1-2-A and DN-QKBD12-A series screwless terminal blocks	DN-Q12-1-2-A DN-QKBD12	25	<=>
DN-QEC12-2-2	Covers open side of DN-Q12-2-2-A series screwless terminal blocks	DN-Q12-2-2-A	25	<=>
DN-QDEC12	Covers open side of DN-QD12-A series screwless terminal blocks	DN-QD12-A	25	<=>

Spacers

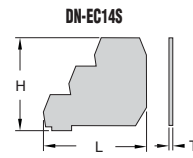
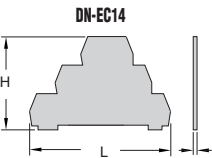
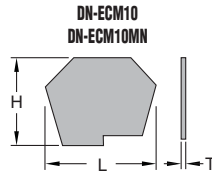
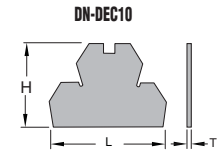
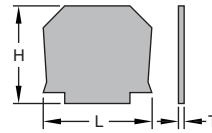
Spacers are used to put more space between adjacent blocks.

DINnector Spacers				
Part Number	Description	Works with terminal block series	Pcs/Pkg	Price
DN-S1210	Spacer for DN-T12-A and DN-T10-A series terminal blocks	DN-T10-A, DN-T12-A	100	<=>
DN-S1210MN			25	<=>
DN-S86	Spacer for DN-T8 and DN-T6 series terminal blocks	DN-T8, DN-T6	100	<=>
DN-EMXM1SPA1	Spacer for single-level plug-in terminal blocks	DN-EMXM1, DN-QEMXM1	25	<=>
DN-EMXDVSPA1	Spacer for double-level plug-in terminal blocks	DN-EMXDV, DN-QEMXDV	25	<=>
DN-FESPA	Spacer for DN-FE sockets and DN-DIS disconnects	DN-FE, DN-DIS	50	<=>
DN-FESPA-10			10	<=>

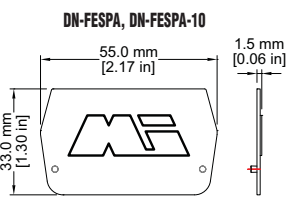
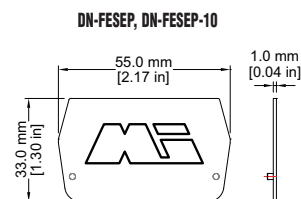
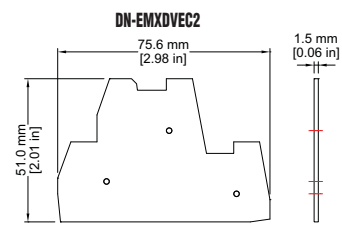
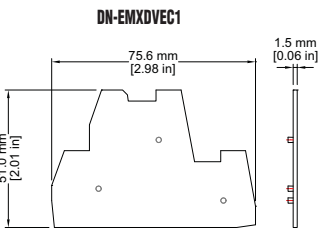
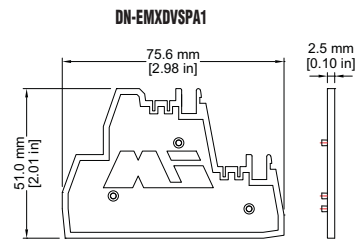
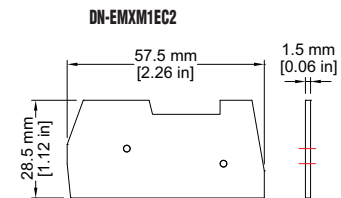
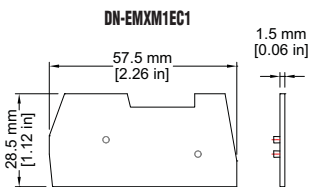
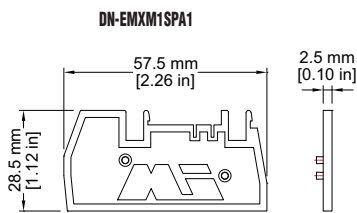
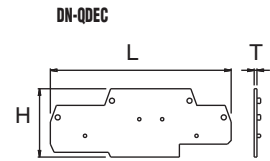
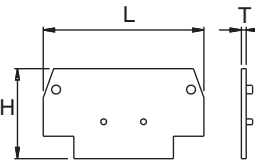
DINnectors Accessories

DINnector End Covers and Spacers Dimensions			
Part Number	Length	Height	Thickness
DN-EC1210	44 mm [1.73 in]	35 mm [1.38 in]	1.5 mm [0.06 in]
DN-EC1210MN			
DN-S1210	55 mm [2.17 in]	44 mm [1.73 in]	
DN-S1210MN			
DN-EC86	50 mm [1.97 in]	43 mm [1.69 in]	
DN-EC86MN			
DN-S86			
DN-EC4	56 mm [2.21 in]	48 mm [1.89 in]	
DN-EC1/0	62 mm [2.44 in]	60 mm [2.36 in]	
DN-DEC10	72 mm [2.80 in]	55 mm [2.17 in]	
DN-EC14	78 mm [3.08 in]	55 mm [2.17 in]	
DN-EC14S	55 mm [2.17 in]	50 mm [1.97 in]	
DN-ECM10	32 mm [1.26 in]	27 mm [1.06 in]	
DN-ECM10MN			
DN-ECKBD	52 mm [2.05 in]	34.5 mm [1.36 in]	
DN-EMXM1EC1	as shown		
DN-EMXM1EC2			
DN-EMXDVEC1			
DN-EMXDVEC2			
DN-EMXDVSPA1			
DN-EMXM1SPA1			
DN-FESPA			
DN-FESPA-10			
DN-FESEP			
DN-FESEP-10			
DN-QEC12	50 mm [1.97 in]	23 mm [0.9 in]	1.5 mm [0.06 in]
DN-QEC10	57.4 mm [2.26 in]	33.6 mm [1.32 in]	
DN-QEC8	63 mm [2.48 in]	38.5 mm [1.52 in]	
DN-QEC12-1-2	68.5 mm [2.70 in]	28.5 mm [1.12 in]	
DN-QEC12-2-2	87.5 mm [3.44 in]	28.5 mm [1.12 in]	
DN-QDEC12	98 mm [3.86 in]	37 mm [1.46 in]	

DN-EC1210, DN-EC1210MN DN-EC86, DN-EC86MN DN-EC4, DN-EC1/0, DN-ECKBD, DN-S1210, DN-S1210MN, DN-S86



DN-QEC12, DN-QEC10, DN-QEC8, DN-QEC12-1-2, DN-QEC12-2-2



Marking Accessories



DN-LB (blank) shown above



DN-LAB (blank) shown on left; part of DN-LA100 on right



DN-LTA marker shown top; DN-LT60 marker shown middle; DN-LTGND shown bottom

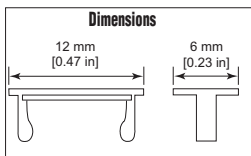
DN-L

Fits terminal block types: All except, Screwless DINnectors, DN-T12-A, DN-M10-A, DN-MG, and DN-TL series

Material: Thermoplastic with heat embossed black print

Note:

- The marking sequence of 50 tags (i.e. 101-150) is printed 10 times in each package of 500 tags.
- The DN-L tags fit all DINnectors 6mm wide and wider.
- The DN-L tags fit all DINnectors 6mm wide and wider but will leave a gap between tags on blocks wider than 6mm.



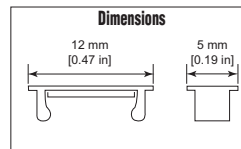
DN-LA

Fits terminal block types: DN-T12-A series

Material: Thermoplastic with heat embossed black print

Note:

- The marking sequence (i.e. 1-100) is printed five times in each package of 500 tags.
- The DN-T12-A series is 5mm wide, so the 6mm wide DN-L tags do not fit these blocks.
- The DN-LA tags fit all DINnectors 5mm wide and wider but will leave a gap between tags on blocks wider than 5mm.



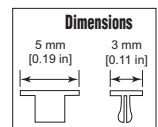
DN-LT

Fits terminal block types: All except Screwless DINnectors (see DN-QL series)

Material: Thermoplastic with heat embossed black print

Note:

- These marking tags allow the flexibility of creating custom marking sequences on site.
- The DN-M10-A support a maximum of three digits (tags), while other DINnectors support up to four digits (tags)



Marking Sequence	Part#	Pcs/Pkg	Price
1-50	DN-L50	500	<-->
51-100	DN-L100	500	<-->
101-150	DN-L150	500	<-->
151-200	DN-L200	500	<-->
201-250	DN-L250	500	<-->
251-300	DN-L300	500	<-->
301-350	DN-L350	500	<-->
351-400	DN-L400	500	<-->
401-450	DN-L450	500	<-->
Blank	DN-LB	500	<-->
L1, L2, L3, L, N, GND, +, -, COM, COM*	DN-LS	500	<-->

Marking Sequence	Part#	Pcs/Pkg	Price
1-100	DN-LA100	500	<-->
101-200	DN-LA200	500	<-->
201-300	DN-LA300	500	<-->
301-400	DN-LA400	500	<-->
Blank Tags	DN-LAB	500	<-->
L1, L2, L3, L, N, GND, +, -, COM, COM*	DN-LAS	500	<-->

Marking Sequence	Part#	Pcs/Pkg	Price
1-5	DN-LT15	100	<-->
6-0	DN-LT60	100	<-->
1	DN-LT1	100	<-->
2	DN-LT2	100	<-->
3	DN-LT3	100	<-->
4	DN-LT4	100	<-->
5	DN-LT5	100	<-->
6	DN-LT6	100	<-->
7	DN-LT7	100	<-->
8	DN-LT8	100	<-->
9	DN-LT9	100	<-->
0	DN-LT0	100	<-->
Unprinted	DN-LTBK	100	<-->
A	DN-LTA	100	<-->
B	DN-LTB	100	<-->
C	DN-LTC	100	<-->
D	DN-LTD	100	<-->
E	DN-LTE	100	<-->
F	DN-LTF	100	<-->
G	DN-LTG	100	<-->
H	DN-LTH	100	<-->
I	DN-LTI	100	<-->
J	DN-LTJ	100	<-->
K	DN-LTK	100	<-->
L	DN-LTL	100	<-->
M	DN-LTM	100	<-->
N	DN-LTN	100	<-->
-	-	-	-
P	DN-LTP	100	<-->
Q	DN-LTQ	100	<-->
R	DN-LTR	100	<-->
S	DN-LTS	100	<-->
T	DN-LTT	100	<-->
U	DN-LTU	100	<-->
V	DN-LTV	100	<-->
W	DN-LTW	100	<-->
X	DN-LTX	100	<-->
Y	DN-LTY	100	<-->
Z	DN-LTZ	100	<-->
⊕	DN-LTGND	100	<-->
+	DN-LTPOS	100	<-->
-	DN-LTNEG	100	<-->
~	DN-LTAC	100	<-->
=	DN-LTDC	100	<-->

DN-QL

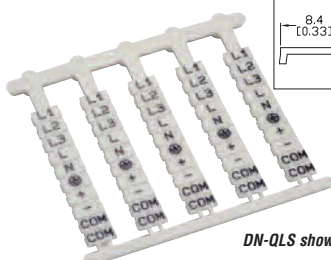
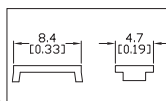
Fits terminal block types: Screwless DN-Q series

Material: Thermoplastic with heat embossed black print. Packaged 100 labels per card, and five cards per box.

Note:

- The marking sequence (i.e. 1-100) is printed five times in each package of 500 tags.

Dimensions



DN-QLS shown

Marking Sequence	Part #	Pcs/Pkg	Price
1-100	DN-QL100	500	<-->
101-200	DN-QL200	500	<-->
201-300	DN-QL300	500	<-->
301-400	DN-QL400	500	<-->
401-500	DN-QL500	500	<-->
Blank Tags ⊕	DN-QLB	500	<-->
L1, L2, L3, L, N, +, -, COM, COM*	DN-QLS	500	<-->

DN-LAT

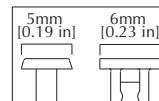
Fits terminal block types: Triple level DN-TL14

Material: Thermoplastic with heat embossed black print

Note:

- The marking sequence (i.e. 1-100) is printed five times in each package of 500 tags.

Dimensions



Marking Sequence	Part #	Pcs/Pkg	Price
1-100	DN-LAT100-A	500	<-->
101-200	DN-LAT200-A	500	<-->
201-300	DN-LAT300-A	500	<-->
301-400	DN-LAT400-A	500	<-->
401-500	DN-LAT500-A	500	<-->
501-600	DN-LAT600-A	500	<-->
Blank Tags	DN-LATB-A	500	<-->
L1, L2, L3, L, N, ⊕, +, -, COM, COM*	DN-LATS-A	500	<-->

DINnectors Accessories – Marking

Terminal Marking Accessories



DN-EMLBL1



DN-EMLBL2



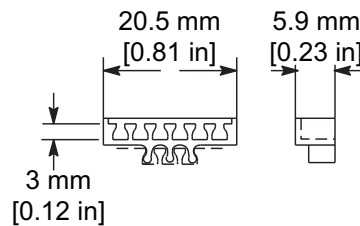
DN-EMLBL3

Part #	Description	For Use With	Pcs/Pkg	Price Each
DN-EMLBL1	Blank labels	DN-EMPEG1 pin protectors for DN-xEMXxx plug-in terminal blocks	100	<--->
DN-EMLBL2	Labels printed 1 – 12		100	<--->
DN-EMLBL3	Labels printed 13 – 24		100	<--->



DN-MTA marking tag adapter

DN-MTA dimensions



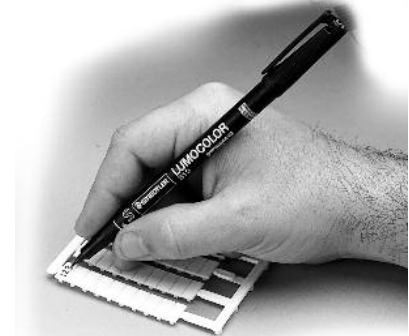
Part#	Description	Pcs/Pkg	Price Each
DN-MTA	Marking tag adapter holds up to six DN-LT tags	50	<--->

Note:
DN-MTA adapter does not fit DN-T12-A terminal blocks.

Marking Pen – for terminal and wire marking tags

- Permanent
- Smudge-proof
- Waterproof
- Weatherproof
- Lightfast (won't fade)
- Dries in seconds (excellent for left-handed users)
- Dry-safe (pen can be left uncapped for days without drying out)
- Low odor ink

Part#	Description	Pcs/Pkg	Price Each
DN-MP	Indelible black ink marking pen	1	<--->



Marking pen

Wire Marking Accessories



DN-WMTAG1 wire tags & DN-WM-x wire tag holders

Part #	Description	For Use With	Pcs/Pkg	Price Each
DN-WMTAG1	Wire tag – blank	all DN-WM-x wire tag holders	525	<--->
DN-WM-1	Wire tag holder, clear, 12 mm length, 0.051–0.118 in diameter; for 22–16 AWG wire	DN-WMTAG1	200	<--->
DN-WM-2	Wire tag holder, clear, 12 mm length, 0.098–0.196 in diameter; for 16–11 AWG wire		200	<--->
DN-WM-3	Wire tag holder, clear, 12 mm length, 0.157–0.393 in diameter; for 13–5 AWG wire		100	<--->
DN-WM-4	Wire tag holder, clear, 12 mm length, 0.314–0.629 in diameter; for 5 AWG wire		100	<--->

Screwdriver Application Guide

Application Guide

AutomationDirect also sells high-quality insulated screwdrivers. Use these tables to find the right screwdriver to use for your DINnectors or PLC terminals.

See the Tools section in this catalog for more information on these screwdrivers.



Screwdriver Application Guide							
DINnectors & PLC Terminals	Insulated Slotted Screwdrivers				Insulated Phillips Screwdrivers		6mm Hex Head
	TW-SD-VSL-1, DN-SS1	TW-SD-VSL-2, DN-SS3	TW-SD-VSL-3, DN-SS4	TW-SD-VSL-4, DN-SS5	TW-SD-VPH-1, DN-SP1	TW-SD-VPH-2, DN-SP2	
DN-D10-A		X					
DN-D10DR-A		X					
DN-D10LED1-A		X					
DN-D10X-A		X					
DN-DIS10			X				
DN-F6			X				
DN-F6L24			X				
DN-F6L110			X				
DN-F6L220			X				
DN-F10		X					
DN-F10L24		X					
DN-F10L110		X					
DN-F10L220		X					
DN-G1/0				X			
DN-G4				X			
DN-G6			X				
DN-G8			X				
DN-G10		X					
DN-KBD12	X						
DN-M10-A		X					
DN-M10B-A		X					
DN-MG10		X					
DN-T1/0				X			
DN-T1/0B				X			
DN-T3/0							X
DN-T4				X			
DN-T4B				X			
DN-T6			X				
DN-T6B			X				
DN-T8			X				
DN-T8B			X				
DN-T10-A		X					
DN-T10B-A		X					
DN-T12-A	X						
DN-T12B-A	X						
DN-TL14-A	X						
DN-TL14S-A	X						
DN-TL14SLP-A	X						
DN-TL14SLN-A	X						
D2-8IOCON					X		
D2-16IOCON	X						
D3-16IOCON					X		
D4-16IOCON						X	

Note: See next page for additional selections.

Screwdriver Application Guide (continued)



Screwdriver Application Guide Cont.							
DINnectors & PLC Terminals	Insulated Slotted Screwdrivers				Insulated Phillips Screwdrivers		Hex Head
	TW-SD-VSL-1, DN-SS1	TW-SD-VSL-2, DN-SS3	TW-SD-VSL-3, DN-SS4	TW-SD-VSL-4, DN-SS5	TW-SD-VPH-1, DN-SP1	TW-SD-VPH-2, DN-SP2	
CO-3TB	X						
CO-4TB	X						
CO-8TB	X						
CO-16TB	X						
DN-THERM1	X						
DN-THERM2	X						
DN-FE2		X					
DN-FE2L12		X					
DN-FE2L24		X					
DN-FE4		X					
DN-FE4L12		X					
DN-FE4L24		X					
DN-DIS2		X					
DN-DIS2L12		X					
DN-DIS2L24		X					
DN-DIS4		X					
DN-DIS4L12		X					
DN-DIS4L24		X					
DN-EMXM1		X					
DN-EMXDV		X					
DN-QEMXM1			X				
DN-QEMXDV			X				
DN-Q12-A		X					
DN-Q12B-A		X					
DN-Q10-A			X				
DN-Q10B-A			X				
DN-Q8-A			X				
DN-Q8B-A			X				
FO-IOCON	X						
F1-IOCON					X		
P3-RTB					X		

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

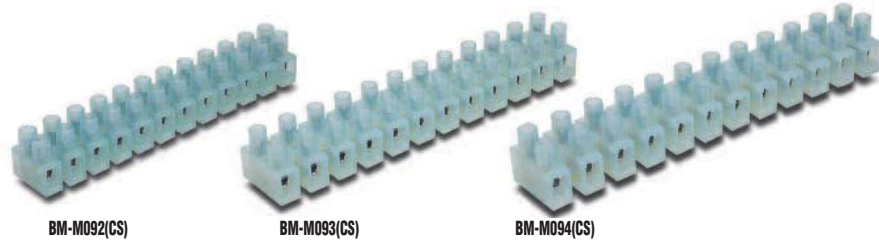
Phoenix Part Number	Screwless DINnectors Part Number
3031364	DN-Q10-A
3031377	DN-Q10B-A
3031212	DN-Q12-A
3031241	DN-Q12-1-2-A
3031306	DN-Q12-2-2-A
3031225	DN-Q12B-A
3031254	DN-Q12B-1-2-A
3031319	DN-Q12B-2-2-A
3031487	DN-Q8-A
3031490	DN-Q8B-A
3031270	DN-QD12-A
3031283	DN-QD12B-A
3031539	DN-QD12X-A
3030420	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

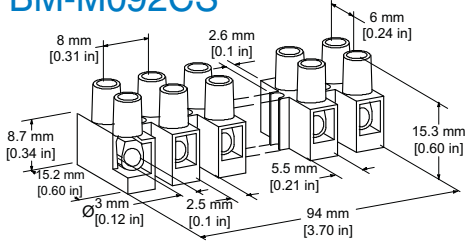
Direct Mount Terminal Blocks

Direct mount terminal blocks do not require the use of a DIN rail to mount. By utilizing two mounting screws, they can be mounted to any backplane. They are supplied with or without wire protectors and can easily be cut to length with ordinary hand tools.

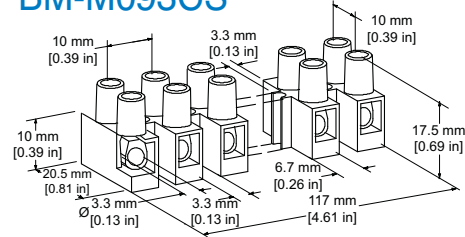


	Part Number	Pcs/ Pkg	Price/ Pkg	Part Number	Pcs/ Pkg	Price/ Pkg	Part Number	Pcs/ Pkg	Price/ Pkg
12 Pole, Without Wire Protector	BM-M092	50	<--->	BM-M093	50	<--->	BM-M094	50	<--->
12 Pole, With Wire Protector	BM-M092CS	50	<--->	BM-M093CS	50	<--->	BM-M094CS	50	<--->
Direct Mount Terminal Blocks Specifications									
UL Approval, Field Wiring	600V/ 250V**	10A	20-16 AWG	600V/ 250V**	20A	18-12 AWG	600V/ 250V**	30A	18-10 AWG
UL Approval, Factory Wiring	600V/ 250V**	15A	20-16 AWG	600V/ 250V**	30A	18-12 AWG	600V/ 250V**	40A	18-10 AWG
CSA Approval	150V/ 300V**	20A	18-16 AWG	150V/ 300V**	30A	18-14 AWG	150V/ 300V**	30A	18-10 AWG
CE Conformity	CE 93/68/EEC								
Agency File #	UL E70156, CSA LR 44081-9			UL E70156, CSA LR 44081-11			UL E70156, CSA LR 44081-12		
Wire Strip Length	0.39" (10mm)			0.39" (10mm)			0.39" (10mm)		
Tightening Torque	4.4 lb-in(0.5Nm)			7 lb-in			7 lb-in		
* UL Temperature Rating: 105° **Commercial Use									

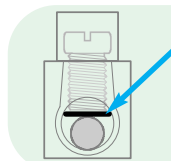
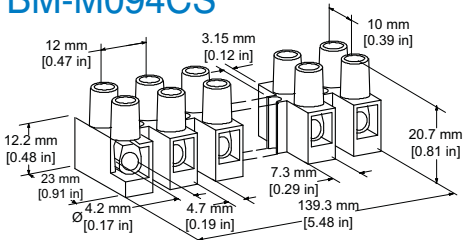
BM-M092CS



BM-M093CS



BM-M094CS



Wire protectors are metallic strips that physically isolate the conductor from the terminal screw. The protectors prevent cutting or nicking softer conductors.

Edison Power Distribution Blocks



Short-Circuit Current Rated Power Distribution Blocks

We offer distinctly different styles of short-circuit current rated Power Distribution Blocks and Terminal Blocks to match different application needs. The different features are:

- 1) Enclosed style or Open style
- 2) UL1953 Listed power distribution blocks or UL1059 Recognized terminal blocks, that have different minimum spacing requirements.

The table below can assist in the selection of the correct series for your application requirements.

Why are these important?

Assembly short-circuit current ratings (SCCRs) are now required in the 2005 NEC® and UL508A Listed industrial control panels.

Marking the SCCR on:

Industrial Control Panels (NEC® 409.110)

Industrial Machinery Electrical Panels (NEC® 670.3(A))

HVAC equipment (NEC® 440.4(B))

The above sections are now required by the National Electrical Code. Power Distribution Blocks or Terminal Blocks not marked with an SCCR are typically one of the weakest links and may limit an assembly to no more than 10 kA SCCR per Table SB4.1 UL508A. The EPDB series and HPB series Power Distribution Blocks have increased spacing required where used in feeder circuits in equipment listed to UL508A. The PB series UL1059 Terminal Blocks must be evaluated for proper spacing. Also, for building wiring systems, the EPDB series and HPB series power distribution blocks can be used to meet the 2005 NEC® requirements in section 376.56(B) for power distribution blocks in wireways.

Edison Power Distribution Blocks Selection Guide*

Series	UL	† Enclosed	High SCCR**	Spacing*** 1" Air 2" Surface	Industrial Control Panels UL 508A Branch Circuit	Industrial Control Panels UL 508A Feeder Circuit	HVAC UL 1995	Wireways NEC® 376.56(B) (Requires UL 1953)
EPDB	UL 1953 Listed Power Distribution Blocks	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HPB	UL 1953 Listed Power Distribution Blocks	No****	Yes	Yes	Yes	Yes	Yes	Yes (with optional cover)
PB	UL 1059 Recognized Terminal Blocks	No****	Yes	No****	Yes	No****	Yes	No

† IP-20 finger-safe under specific conditions.

*Refer to specific UL standards and NEC sections for a complete application guide.

**When protected by proper fuse class with maximum ampere rating specified or smaller.
This does not apply to PB40, PB51 and PB71 series.

***See Minimum Space Requirements for Equipment table below.

****Optional covers are available. They are not IP-20 rated, but do provide additional protection against direct contact with Live Parts.

*****Exception: Yes, if single pole units installed with proper spacings.

Minimum Space Requirements for Equipment

UL Standard	Spacing Between Live Parts of Opposite Polarity		Spacing Between Live Parts and Grounded Parts or Enclosures, Through Air and Over Surface @ 600V
	Through Air @ 600V	Over Surface @ 600V	
508A Feeder Circuits, Table 10.2	1"	2"	1"
508A Branch Circuits, Table 10.1	3/8"	1/2"	1/2"
UL 1995 HVAC	3/8"	1/2"	1/2"

Note: Refer to specific UL standards for complete spacing details.

EPDB Series Edison Finger-Safe Power Distribution Blocks

Finger-safe distribution blocks

Use Finger-safe Power Distribution Blocks to manage your power distribution needs, from splitting primary power circuits into a variety of branch circuits to providing a fixed junction tap-off point. The modular design allows the end user to select and configure the number of poles required by each application. These blocks are engineered to allow copper conductors and maintain an SCCR rating of 200kA. These features make these blocks the perfect solution to today's power circuit wiring requirements.

Features

- Fully enclosed block for touch-safe isolation of live parts
- IP20 rating under specific conditions
- Integrated DIN-rail or direct panel mounting. (Panel mount only for EPDB306 and EPDB702)
- Captive termination screws cannot be lost
- Used in UL508A panels for both feeder and branch circuit applications
- Suitable for both factory and field wiring
- Tin-plated aluminum connectors suitable for copper conductors

Ratings

- Ampere ratings from 175 Amps to 760
- 600 VAC or VDC
- Short Circuit Current Rating (SCCR) 200kA with proper fusing
- Flammability: UL 94V0

Agency Approvals

- UL 1953 Listed - File E256146, Guide QPQS
- CSA Certified - Class 6228-01, File 700490
- CE component IEC 60947-7-1
- IEC-60529, IP20 (Finger-Safe)
See table for specific conditions.

Finger-safe Power Distribution Blocks Selection Table							
Series	Part Number	Amps	Description	SCCR Rtg	Pcs/Pkg	Wt.	Price
Finger-safe (EPDB)	EPDB101	175 max	1 pole distribution block, 1 in/1 out	200 kA	1	3.4 oz.	<-->
	EPDB104	175 max	1 pole distribution block, 1 in/4 out	200 kA	1	4.2 oz.	<-->
	EPDB301	310 max	1 pole distribution block, 1 in/1 out	200 kA	1	8.1 oz.	<-->
	EPDB306	380 max	1 pole distribution block, 1 in/6 out	200 kA	1	9.1 oz.	<-->
	EPDB512	570 max	1 pole distribution block, 2 in/12 out	200 kA	1	12.5 oz.	<-->
	EPDB702	760 max	1 pole distribution block, 2 in/2 out	200 kA	1	16.4 oz.	<-->
Accessory	DN-EB35*	-	End bracket	-	50	1.87 lb.	<-->

*Note: DIN-rail anchors are required on block or blocks. Anchors must be used to prevent damage to the plastic housing when tightening terminals.

Finger-safe Power Distribution Block General Specifications	
Wire Type	75°C*, Cu
Voltage	600 VAC or VDC maximum (UL 1953), 690 VAC/VDC (IEC)
Operating Temperature	-10°C to 60°C (14°F to 140°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Mounting	35mm DIN rail (DN-R35S1) or surface mount.

*Note: Amp Rating is based on NEC table 310.16 for 75°C copper wire.



EPDB Series Edison Finger-Safe Power Distribution Blocks Specifications

Edison Finger-Safe Power Distribution Blocks Wire and Torque Range Specifications								
Part Number	Line				Load			
	CU Wire Range	Torque Lb-in (Nm)	Trim Length in (mm)	Hex Key	CU Wire Range	Torque Lb-in (Nm)	Trim Length in (mm)	Hex Key
EPDB101	2/0 to 8 AWG, 70 to 10 mm ²	110 [12.4]	0.850 [21.6]	3/16"	2/0 to 8 AWG, 70 to 10 mm ²	110 [12.4]	0.970 [24.6]	3/16"
EPDB104	2/0 to 8 AWG, 70 to 10 mm ²	120 [13.6]	0.750 [19.0]	3/16"	4 to 12 AWG, 25 to 16 mm ²	35 [4.0]	0.550 [14.0] top row, 0.850 [21.6] bottom row	1/8"
					8 AWG, 10 mm ²	25 [2.8]		
					10 to 14 AWG, 6 to 2.5 mm ²	20 [2.3]		
EPDB301	350 kcmil to 6 AWG, 185 to 16 mm ²	275 [31.1]	1.350 [34.3]	5/16"	350 Kcmil to 6 AWG, 185 to 16 mm ²	275 [31.1]	1.250 [31.8]	5/16"
EPDB306	500 kcmil to 6 AWG, 240 to 16 mm ²	500 [56.5]	1.250 [31.8]	3/8"	2 to 3 AWG, 35 mm ²	50 [5.7]	0.590 [15.0] top row 1.200 [30.5] bottom row	1/8"
					4 to 6 AWG, 25 to 16 mm ²	45 [5.1]		
					8 AWG, 10 mm ²	40 [4.5]		
					10 to 14 AWG, 6 to 2.5 mm ²	35 [4.0]		
EPDB512	300 kcmil to 4 AWG, 150 to 25mm ²	275 [31.1]	1.15 [29.2] top row 1.400 [35.6] bottom row	1/4"	4 to 6 AWG, 25 to 16 mm ²	35 [4.0]	0.550 [14.0] top row, 1.00 [25.4] middle row, 1.220 [31.0] bottom row	1/8"
					8 AWG, 10 mm ²	25 [2.8]		
					10 to 14 AWG, 6 to 2.5 mm ²	20 [2.3]		
EPDB702	500 kcmil to 6 AWG, 240 to 16 mm ²	500 [56.5]	1.250 [31.8]	3/8"	500 kcmil to 6 AWG, 240 to 16 mm ²	500 [56.5]	1.250 [31.8]	3/8"

Short-Circuit Current Rating Data										
Part Number (All Single Pole)	Capacity*	Line		Load		Maximum Fuse Class and Amps***				
		Openings per Pole	Wire Range (copper only)	openings per Pole	Wire Range (copper only)	Class J(JDL)	Class T (A3T/A6T)	Class RK1 (LENRK/LESRK)	Class RK5 (ECNR/ECSR)	SCCR Rating
EPDB101	175A	1	2/0 to 8 AWG 70 to 10 mm ²	1	2/0 to 8 AWG 70 to 10 mm ²	200	200	100	60	200 kA
EPDB104	175A	1	2/0 to 8 AWG 70 to 10 mm ²	4	4 to 6 AWG 25 to 16 mm ²	200	200	100	60	200 kA
					4 to 14 AWG 25 to 2.5 mm ²	175	175	100	60	100 kA
						200	200	100	60	50 kA
EPDB301	310A	1	350 kcmil to 6 AWG 185 to 16 mm ²	1	350 kcmil to 6 AWG 150 to 16 mm ²	400	400	200	100	200 kA
EPDB306	380A	1	500 kcmil to 6 AWG 240 to 16 mm ²	6	2 to 6 AWG 35 to 16 mm ²	400	400	200	100	200 kA
					2 to 14 AWG 35 to 2.5 mm ²	200	200	100	30	50 kA
						175	175	100	30	100 kA
EPDB512	570A	2	300 kcmil 150 mm ²	12	4 to 8 AWG 25 to 10 mm ²	600	600	400	200	200 kA
			300 kcmil to 4 AWG 150 to 12 mm ²		4 AWG 25 mm ²	600	600	400	200	50 kA
					4 to 14 AWG 25 to 2.5 mm ²	200	200	100	30	50 kA
EPDB702	760A	2	500 kcmil 240 mm ²	2	500 kcmil 240 mm ²	600	800**	600	400	200 kA
			500 kcmil to 6 AWG 240 to 16 mm ²		600	800**	600	600	100 kA	
					500 kcmil to 6 AWG 240 to 16 mm ²	600	600	400	200	100 kA

*Amp ratings are based on NEC® Table 310.16 for 75°C copper wire and UL508A Table 28.1.

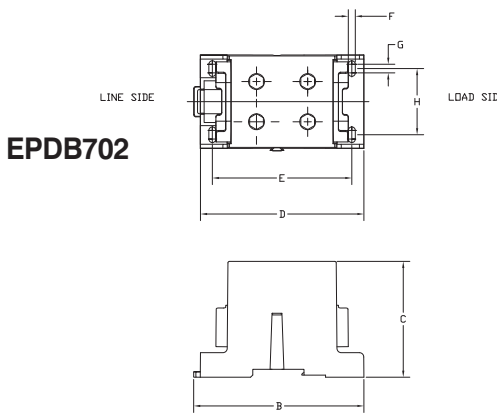
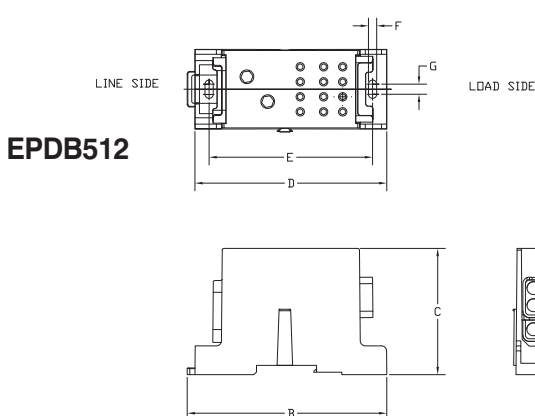
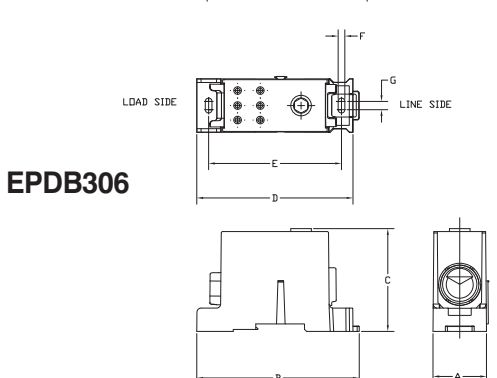
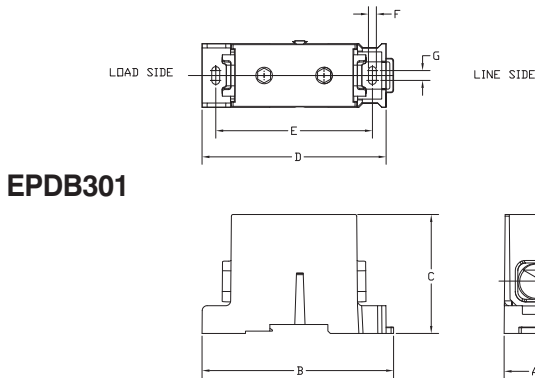
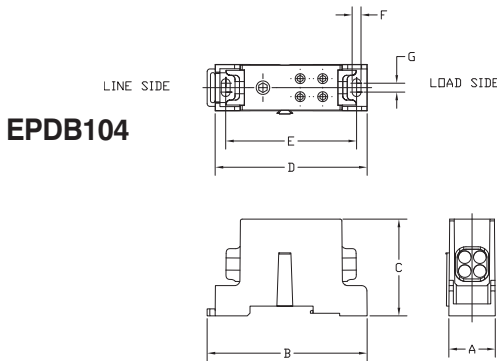
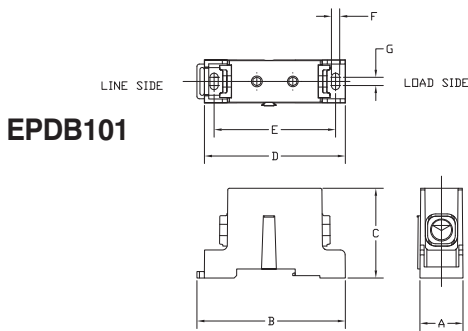
**Class L 800A or less fuses are suitable for this particular SCCR case.

***Class G 60A or less, or Class CC 30A or less fuses are suitable for all SCCRs in this table.

EPDB Series Edison Finger-Safe Power Distribution Blocks Dimensions

Edison Finger-Safe Power Distribution Blocks Dimensions (in[mm])

Part Number	Width		Length		Height		G	H
	A	B	C	D	E	F		
EPDB101	1.03 [26.2]	3.55 [90.2]	2.15 [54.6]	3.37 [85.6]	2.90 [73.7]	0.2 [5.1]	0.2 [5.1]	N/A
EPDB104	1.03 [26.2]	3.55 [90.2]	2.15 [54.6]	3.37 [85.6]	2.90 [73.7]	0.2 [5.1]	0.2 [5.1]	N/A
EPDB301	1.54 [39.1]	4.62 [117.3]	2.87 [72.9]	4.44 [112.8]	3.78 [96.0]	0.2 [5.1]	0.24 [6.1]	N/A
EPDB306	1.54 [39.1]	4.62 [117.3]	2.87 [72.9]	4.44 [112.8]	3.78 [96.0]	0.2 [5.1]	0.24 [6.1]	N/A
EPDB512	1.86 [47.2]	4.65 [118.1]	2.95 [74.9]	4.47 [113.5]	3.81 [96.8]	0.2 [5.1]	0.24 [6.1]	N/A
EPDB702	2.56 [65.0]	4.65 [118.1]	3.17 [80.5]	4.47 [113.5]	3.81 [96.8]	0.2 [5.1]	0.24 [6.1]	1.81 [46.0]



Part Number	Minimum Enclosure Size in(mm)*
EPDB101	16 x 16 x 6.75 [406.4 x 406.4 x 171.45]
EPDB104	16 x 16 x 6.75 [406.4 x 406.4 x 171.45]
EPDB301	36 x 30 x 12.63 [914.4 x 762 x 320.80]
EPDB306	24 x 20 x 6.75 [609.6 x 508 x 171.45]
EPDB512	24 x 20 x 6.75 [609.6 x 508 x 171.45]
EPDB702	36 x 30 x 12.63 [914.4 x 762 x 320.80]

*Note: Terminal block SCCR determined based on testing in minimum-size enclosure

Wire Connector Hole Diameter		
Part Number	Line in (mm)	Load in (mm)
EPDB101	0.450 [11.43]	0.450 [11.43]
EPDB104	0.450 [11.43]	0.246 [6.25]
EPDB301	0.720 [18.29]	0.720 [18.29]
EPDB306	0.870 [22.10]	0.314 [7.98]
EPDB512	0.687 [17.45]	0.265 [6.73]
EPDB702	0.875 [22.23]	0.875 [22.23]

EPDB Series Edison Finger-Safe Power Distribution Blocks IP-20 Finger-safe Status Requirements

Specific Conditions to Achieve IP-20 Finger-Safe Status for EPDB Series								
Part Number	Line				Load			
	Trim Length in [mm]	Installed Wire	IP-20		Trim Length in [mm]	Installed Wire	IP-20	
			Conductor Openings	Screw Opening			Conductor Openings	Screw Opening
EPDB101	0.850 [21.6]	2/0 to 8 AWG 70 to 10mm ²	Yes	Yes	0.970 [24.6]	2/0 to 8 AWG 70 to 10mm ²	Yes	Yes
EPDB104	0.750 [19.0]	2/0 to 8 AWG 70 to 10mm ²	Yes	Yes	0.550 [14.0] top row, 0.850 [21.6] bottom row	4 to 14 AWG 25 to 2.5mm ²	Yes	Yes
						screws fully opened no wire in hole	N/A	Yes N/A
EPDB301	1.350 [34.3]	350 Kcmil to 2/0 AWG 185 to 70mm ²	Yes	Yes	1.250 [31.8]	350 Kcmil to 2/0 AWG 185 to 70mm ²	Yes	Yes
		1/0 to 6 AWG 50 to 16mm ²	No	Yes		1/0 to 6 AWG 50 to 16mm ²	No	Yes
EPDB306	1.250 [31.8]	500 to 250 Kcmil 240 to 150mm ²	Yes	Yes	0.590 [15.0] top row, 1.200 [30.5] bottom row	2 to 14 AWG 35 to 2.5mm ²	Yes	Yes
		4/0 to 6 AWG 120 to 16mm ²	No	Yes		screws fully opened	N/A	Yes
		N/A	N/A	N/A		no wire in hole	No	N/A
EPDB512	1.15 [29.2] top row, 1.400 [35.6] bottom row	300 Kcmil to 4/0 AWG 150 to 120mm ²	Yes	Yes	0.550 [14.0] top row 1.00 [25.4] middle row 1.220 [31.0] bottom row	4 to 14 AWG 25 to 2.5mm ²	Yes	Yes
		3/0 to 4 AWG 95 to 25mm ²	No	Yes		screws fully opened	N/A	Yes
		screws fully opened	N/A	No		no wire in hole	Yes	N/A
		no wire in hole	No	N/A		no wire in hole	Yes	N/A
EPDB702	1.250 [31.8]	500 to 350 Kcmil 240 to 185mm ²	Yes	Yes	1.250 [31.8]	500 to 350 Kcmil 240 to 185mm ²	Yes	Yes
		300 Kcmil to 6 AWG 150 to 16mm ²	No	Yes		300 Kcmil to 6 AWG 150 to 16mm ²	No	Yes
		screws fully opened	N/A	No		screws fully opened	N/A	No
		no wire in hole	No	N/A		no wire in hole	No	N/A

HPB Series Edison Open-Style Power Distribution Blocks

Open-style power distribution blocks for cable termination

Edison open-style power distribution blocks are a convenient way to manage your power distribution needs. They are engineered to maintain a high SCCR rating of 200kA with copper conductors making these distribution blocks the ideal solution to today's power circuit wiring needs.



Features

- Suitable for industrial control panel applications requiring high SCCR ratings
- Suitable for installation in wireways (with optional cover, per NEC 376.56 (B))
- Has minimum spacing requirements at 600VAC/DC of at least 1" through air and 2" over surface which meets UL 1953 requirements
- Used in UL508A panels
- Meets UL508A requirements and can be used in feeder and branch circuit applications
- Tin-plated aluminum connectors suitable for copper conductors
- Available safety covers for greater protection (purchase separately)
- Suitable for both factory and field wiring
- Panel mounting

Ratings

- Ampere ratings up to 310 Amps
- 600 VAC or VDC
- Short Circuit Current Rating (SCCR) up to 200kA with proper fusing (See short circuit rating data table)
- Flammability: UL 94V0

Agency Approvals

- UL Listed - File E333541 Guide QPQS
- CE

Standards

- UL1953

Open-Style Power Distribution Blocks Selection Table

Series	Part Number	Amps	Description	SCCR Rtg	Pcs/Pkg	Wt.	Price
HPB Series	HPB101-1	175 max	1 pole distribution block, 1 in/1 out	200kA	1	0.2 lb	<--->
	HPB101-3	175 max	3 pole distribution block, 1 in/1 out	200kA	1	0.8 lb	<--->
	HPB104-1	175 max	1 pole distribution block, 1 in/4 out	200kA	1	0.2 lb	<--->
	HPB104-3	175 max	3 pole distribution block, 1 in/4 out	200kA	1	0.8 lb	<--->
	HPB10S-1	175 max	1 pole distribution block, 1 in/stud out	200kA	1	0.6 lb	<--->
	HPB10S-3	175 max	3 pole distribution block, 1 in/stud out	200kA	1	1.0 lb	<--->
	HPB106-1	175 max	1 pole distribution block, 1 in/6 out	200kA	1	1.4 lb	<--->
	HPB106-2	175 max	2 pole distribution block, 1 in/6 out	200kA	1	0.2 lb	<--->
	HPB106-3	175 max	3 pole distribution block, 1 in/6 out	200kA	1	0.8 lb	<--->
	HPB306-1	310 max	1 pole distribution block, 1 in/6 out	200kA	1	0.7 lb	<--->
	HPB306-3	310 max	3 pole distribution block, 1 in/6 out	200kA	1	2.9 lb	<--->
	HPB309-1	310 max	1 pole distribution block, 1 in/9 out	200kA	1	0.8 lb	<--->
	HPB309-3	310 max	3 pole distribution block, 1 in/9 out	200kA	1	3.0 lb	<--->
	HPB312-1	310 max	1 pole distribution block, 1 in/12 out	200kA	1	0.8 lb	<--->
	HPB312-3	310 max	3 pole distribution block, 1 in/12 out	200kA	1	3.2 lb	<--->



HPB104-1



HPB10S-3



HPB106-3



HPB309-1



HPB312-3

Open-Style Power Distribution Block General Specifications

Wire type	75°C* Copper
Voltage	600 VAC or VDC maximum
Mounting	Surface mount
*Note: Amp Rating based on NEC table 310.16 for 75°C copper wire.	

Optional Covers

Covers are ordered for each individual pole, i.e., three 1-pole covers for 3-pole block, see Table A. Except HPB106 blocks have one cover for 1-, 2-, or 3-pole versions, see Table B. (Shipped with mounting screws)

Table A

Block	Cover
HPB1XX-(pole)	PBC21
HPB3XX-(pole)	PBC31

Table B

Block	Cover
HPB106-1	PBC31
HPB106-2	PBC32
HPB106-3	PBC33

HPB Series Edison Open-Style Power Distribution Blocks

Edison Open-Style Power Distribution Blocks Wire and Torque Range Specifications								
Part Number	Line				Load			
	CU Wire Range	Torque Lb-in (Nm)	Trim Length in (mm)	Hex Key	CU Wire Range	Torque Lb-in (Nm)	Trim Length in (mm)	Hex Key
HPB101-1, HPB101-3	2/0 to 8 AWG 70 to 10 mm ²	110 (12.4)	0.700 (17.8)	3/16"	2/0 to 8 AWG, 70 to 10 mm ²	110 (12.4)	0.700 (17.8)	3/16" Hex
HPB104-1, HPB104-3	2/0 to 8 AWG 70 to 10 mm ²	120 (13.6)	0.670 (17.0)	3/16"	4 to 6 AWG, 25 to 16 mm ²	35 (4.0)	0.470 (11.9) top row, 0.780 (19.8) bottom row	Slot
					8 AWG, 10 mm ²	25 (2.8)		
					10 to 14 AWG, 6 to 2.5 mm ²	20 (2.3)		
HPB10S-1, HPB10S-3	2/0 to 8 AWG 70 to 10 mm ²	120 (13.6)	0.670 (17.0)	3/16"	N/A	50 (5.7)	N/A	1/4-20 Stud
HPB106-1, HPB106-2, HBP106-3	2/0 to 8 AWG 70 to 10 mm ²	120 (13.6)	0.700 (17.8)	3/16"	4 to 6 AWG, 25 to 16 mm ²	35 (4.0)	0.480 (12.2) top row, 0.800 (20.3) bottom row	Slot
					8 AWG, 10 mm ²	25 (2.8)		
					10 to 14 AWG, 6 to 2.5 mm ²	20 (2.3)		
HPB306-1, HPB306-3	350 kcmil to 4 AWG 185 to 25 mm ²	275 (31.1)	0.900 (22.9)	5/16"	4 to 6 AWG, 25 to 16 mm ²	35 (4.0)	1.00 (25.4) top row, 0.450 (11.43) bottom row	Slot
					8 AWG, 10 mm ²	25 (2.8)		
					10 to 12 AWG, 6 to 4 mm ²	20 (2.3)		
HPB309-1, HPB309-3	350 kcmil to 4 AWG 185 to 25 mm ²	275 (31.1)	0.900 (22.9)	5/16"	2 to 3 AWG, 35 mm ²	50 (5.7)	0.450 (11.4) top row, 0.630 (16.0) middle row, 0.920 (23.4) bottom row	Slot top row, Slot middle row, 3/16" Hex bottom row
					4 to 6 AWG, 25 to 16 mm ²	45 (5.1)		
					8 AWG, 10 mm ²	40 (4.5)		
					10 to 12 AWG, 6 to 4 mm ²	35 (4.0)		
HPB312-1, HPB312-3	350 kcmil to 4 AWG 185 to 25 mm ²	275 (31.1)	0.900 (22.9)	5/16"	4 to 6 AWG, 25 to 16 mm ²	35 (4.0)	0.450 (11.4) top row, 0.630 (16.0) middle row, 0.920 (23.4) bottom row	Slot
					8 AWG, 10 mm ²	25 (2.8)		
					10 to 14 AWG, 6 to 2.5 mm ²	20 (2.3)		

Short-Circuit Current Rating Data										
Part Number (All Single Pole)	Capacity*	Line		Load		Maximum Fuse Class and Amps**				
		Openings per Pole	Wire Range (copper only)	openings per Pole	Wire Range (copper only)	Class J(JDL)	Class T (A3T/A6T)	Class RK1 (LENRK/LESRK)	Class RK5 (ECNR/ECSR)	SCCR Rating
HPB101-1, HPB101-3	175 A	1	2/0 to 8 AWG 70 to 10 mm ²	1	2/0 to 8 AWG 70 to 10 mm ²	200	200	200	60	200kA
HPB104-1, HPB104-3	175 A	1	2/0 to 8 AWG 70 to 10 mm ²	4	4 to 12 AWG 25 to 4 mm ²	200	200	200	60	200kA
					14 AWG 2.5 mm ²	175	175	100	60	100kA
						200	200	100	60	50kA
HPB10S-1, HPB10S-3	175 A	1	2/0 to 8 AWG 70 to 10 mm ²	Stud	1/4-20 x 3/4 Stud	200	200	100	60	200kA
HPB106-1, HPB106-2, HBP106-3	175 A	1	2/0 to 8 AWG 70 to 10 mm ²	6	4 to 12 AWG 25 to 4 mm ²	400	400	200	100	200kA
						400	400	400	100	100kA
					14 AWG 2.5 mm ²	175	175	100	60	100kA
HPB306-1, HPB306-3	310 A	1	350 kcmil to 4 AWG 185 to 12 mm ²	6	4 to 8 AWG 25 to 10 mm ²	400	400	200	100	200kA
						400	400	400	100	100kA
					10 to 12 AWG 6 to 4 mm ²	175	175	100	60	100kA
HPB309-1, HPB309-3	310 A	1	350 kcmil to 4 AWG 185 to 12 mm ²	9	1/0 to 6 AWG 50 to 16 mm ²	400	400	200	100	200kA
						400	400	400	100	100kA
					8 to 12 AWG 10 to 4 mm ²	175	175	100	60	100kA
HPB312-1, HPB312-3	310 A	1	350 kcmil to 4 AWG 185 to 12 mm ²	12	4 to 8 AWG 25 to 10 mm ²	400	400	200	100	200kA
						400	400	200	100	200kA
					10 to 14 AWG 6 to 2.5 mm ²	175	175	100	60	100kA

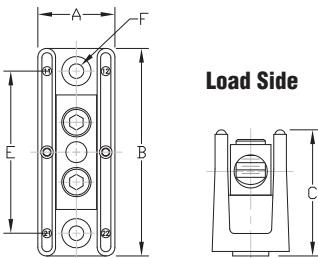
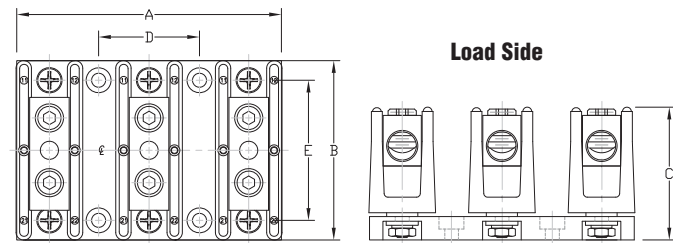
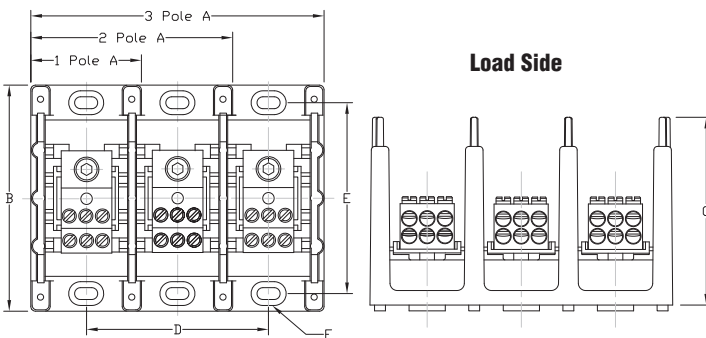
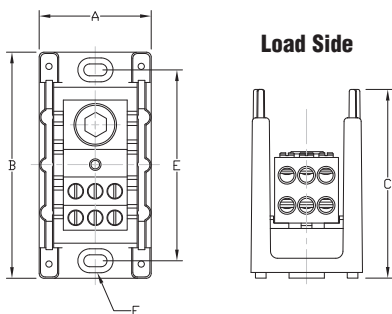
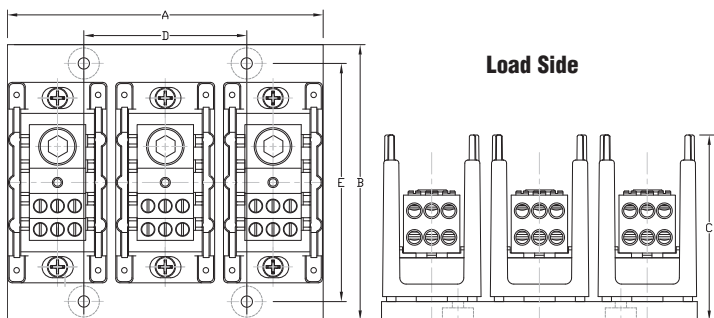
*Amp ratings are based on NEC® Table 310.16 for 75°C copper wire and UL508A Table 28.1.

**Class G 60A or less, or Class CC 30A or less fuses are suitable for all SCCRs in this table.

HPB Series Edison Open-Style Power Distribution Block Dimensions

Edison Open-Style Power Distribution Blocks Dimensions (in[mm])

Part Number	Width	Length	Height	D	E	F
	A	B	C			
HPB306-3, HPB312-3, HPB309-3	6.00 [152.4]	5.50 [139.7]	3.70 [93.9]	3.25 [82.6]	4.75 [120.7]	0.22 [5.7]
HPB306-1, HPB312-1, HPB309-1	1.96 [49.8]	3.38 [85.9]	3.32 [84.3]	-	3.38 [85.8]	0.21 [2.5] x 0.41 [10.4]
HPB101-3, HPB104-3, HPB10S-3	4.27 [108.3]	2.88 [73.2]	2.13 [54.0]	1.62 [41.1]	2.25 [57.2]	0.22 [5.7]
HPB101-1, HPB104-1, HPB10S-1	1.07 [27.2]	2.88 [73.2]	1.75 [44.5]	-	2.25 [57.2]	0.20 [5.1]
HPB106-1	1.96 [49.8]	4.00 [101.6]	3.32 [84.3]	1.62 [41.1]	3.37 [85.6]	0.21 [2.5] x 0.41 [10.4]
HPB106-2	3.58 [90.9]	4.00 [101.6]	3.32 [84.3]	1.62 [41.1]	3.37 [85.6]	0.21 [2.5] x 0.41 [10.4]
HPB106-3	5.20 [132.1]	4.00 [101.6]	3.32 [84.3]	1.62 [41.1]	3.37 [85.6]	0.21 [2.5] x 0.41 [10.4]

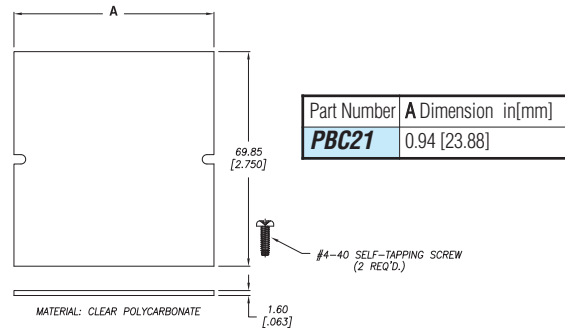
HPB101-1, HPB104-1, HPB10S-1

HPB101-3, HPB104-3, HPB10S-3

HPB106-1, HPB106-2, HPB106-3

HPB306-1, HPB312-1, HPB309-1

HPB306-3, HPB312-3, HPB309-3


HPB Series Edison Open-Style Power Distribution Blocks Optional Covers

Covers

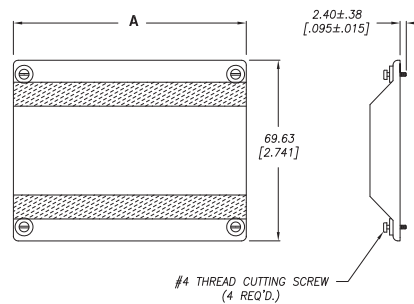
Optional Cover for HPB101-1, HPB101-3, HPB104-1, HPB104-3 HPB10S-1, HPB10S-3,

Note: One PBC21 will be required for each pole. For example the HPB101-1 will require 1 Qty. HPB101-3 will require 3 Qty.



Optional Cover for HPB306-1, HPB306-3, HPB309-1, HPB309-3, HPB312-1, HPB312-3

Note: One PBC31 will be required for each pole. For example the HPB306-1 will require 1 Qty. HPB306-3 will require 3 Qty.



Optional Cover for HPB106-1 = PBC31 HPB106-2 = PBC32 HPB106-3 = PBC33

Note: Dimensions are in inches [millimeters]

Part No.	Minimum Enclosure Size*
HPB101-1, HPB101-3	16" x 16" x 6.75" [406.4mm x 406.4mm x 171.5mm]
HPB104-1, HPB104-3	16" x 16" x 6.75" [406.4mm x 406.4mm x 171.5mm]
HPB10S-1, HPB10S-3	16" x 16" x 6.75" [406.4mm x 406.4mm x 171.5mm]
HPB106-1, HPB106-2, HPB106-3	24" x 20" x 6.76" [609.6mm x 508mm x 171.5mm]
HPB306-1, HPB306-3	24" x 20" x 6.76" [609.6mm x 508mm x 171.5mm]
HPB309-1, HPB309-3	24" x 20" x 6.76" [609.6mm x 508mm x 171.5mm]
HPB312-1, HPB312-3	24" x 20" x 6.76" [609.6mm x 508mm x 171.5mm]

**Power distribution blocks SCCR determined based on testing in minimum size enclosure.*

PB Series Edison Open-Style Terminal Blocks

Open-style terminal blocks for cable termination

Edison Open-style terminal blocks are a convenient way to manage your power distribution needs. They are engineered to maintain an SCCR rating of 200kA with copper conductors and an SCCR of 10 kA for aluminum conductors, making these distribution blocks the ideal solution to today's power circuit wiring needs.

Features

- Used in UL508A panels for branch circuit applications
- Standard aluminum box connectors accommodate copper wire. PB401x, PB512x and PB712x series accommodate copper or aluminum wire.
- Tin-plated aluminum connectors suitable for copper conductors
- Available safety covers for greater protection (purchase separately)
- Suitable for both factory and field wiring

Ratings

- Ampere ratings up to 760 Amps
- 600 VAC or VDC
- Short Circuit Current Rating (SCCR) 200kA with proper fusing
- Flammability: UL 94V0

Agency Approvals

- UL 1059 recognized - File E221592 Guide XCFR2
- CSA Certified: Class 6228-01, File 700489
- CE

Open Type Power Distribution Blocks Selection Table

Series	Part Number	Amps	Description	SCCR Rtg	Pcs/Pkg	Wt.	Price
PB Series	PB1011	175 max	1 pole distribution block, 1 in/1 out	200 kA	1	2.8 oz.	<-->
	PB1012	175 max	2 pole distribution block, 1 in/1 out	200 kA	1	4.6 oz.	<-->
	PB1013	175 max	3 pole distribution block, 1 in/1 out	200 kA	1	6.8 oz.	<-->
	PB1041	175 max	1 pole distribution block, 1 in/4 out	200 kA	1	3.1 oz.	<-->
	PB1042	175 max	2 pole distribution block, 1 in/4 out	200 kA	1	5.2 oz.	<-->
	PB1043	175 max	3 pole distribution block, 1 in/4 out	200 kA	1	7.3 oz.	<-->
	PB3061	310 max	1 pole distribution block, 1 in/6 out	200 kA	1	10.9 oz.	<-->
	PB3062	310 max	2 pole distribution block, 1 in/6 out	200 kA	1	19.1 oz.	<-->
	PB3063	310 max	3 pole distribution block, 1 in/6 out	200 kA	1	25.5 oz.	<-->
	PB3121	310 max	1 pole distribution block, 1 in/12 out	200 kA	1	12.7 oz.	<-->
	PB3122	310 max	2 pole distribution block, 1 in/12 out	200 kA	1	21.6 oz.	<-->
	PB3123	310 max	3 pole distribution block, 1 in/12 out	200 kA	1	31.1 oz.	<-->
	PB4011	380 max	1 pole distribution block, 1 in/stud	10 kA	1	11.9 oz.	<-->
	PB4012	380 max	2 pole distribution block, 1 in/stud	10 kA	1	20.7 oz.	<-->
	PB4013	380 max	3 pole distribution block, 1 in/stud	10 kA	1	29.1 oz.	<-->
	PB5121	570 max	1 pole distribution block, 2 in/12 out	10 kA	1	13.8 oz.	<-->
	PB5122	570 max	2 pole distribution block, 2 in/12 out	10 kA	1	24.4 oz.	<-->
	PB5123	570 max	3 pole distribution block, 2 in/12 out	10 kA	1	34.7 oz.	<-->
	PB7121	760 max	1 pole distribution block, 2 in/12 out	10 kA	1	17.0 oz.	<-->
PB7123	760 max	3 pole distribution block, 2 in/12 out	10 kA	1	44.0 oz.	<-->	



Safety Covers for Open Power Distribution Blocks Selection Table

Part Number	Description	Pcs/Pkg	Wt.	Price
PBC21	Power distribution block cover for 175A open style 1-pole blocks	1	0.3 oz.	<-->
PBC22	Power distribution block cover for 175A open style 2-pole blocks	1	0.4 oz.	<-->
PBC23	Power distribution block cover for 175A open style 3-pole blocks	1	0.5 oz.	<-->
PBC31	Power distribution block cover for 310A, 380A, 570A open style 1-pole blocks, and HPB106-1	1	0.9 oz.	<-->
PBC32	Power distribution block cover for 310A, 380A, 570A open style 2-pole blocks, and HPB106-2	1	1.3 oz.	<-->
PBC33	Power distribution block cover for 310A, 380A, 570A open style 3-pole blocks, and HPB106-3	1	1.6 oz.	<-->
PBC71	Power distribution block cover for all 760A open style 1-pole and 3-pole blocks. 1 pole block requires 1 cover. 3-pole block requires 3 covers	1	0.9 oz.	<-->

Open Style Power Distribution Block General Specifications

Wire type	75°C* Copper
Voltage	600 VAC or VDC maximum
Mounting	Surface mount

*Note: Amp Rating based on NEC table 310.16 for 75°C copper wire.

PB Series Edison Open-Style Terminal Blocks Specifications

UL Series Wire and Torque Range Specifications								
Part Number	Line				Load			
	CU Wire Range	Torque Lb-in (Nm)	Trim Length in (mm)	Hex Key	CU Wire Range	Torque Lb-in (Nm)	Trim Length in (mm)	Hex Key, Slot, Stud
PB1011	2/0 to 8 AWG, 70 to 10 mm ²	110 [12.4]	0.70 [17.8]	3/16"	2/0 to 8 AWG, 70 to 10 mm ²	110 [12.4]	0.70 [17.8]	3/16" Hex
PB1012								
PB1013								
PB1041	2/0 to 8 AWG, 70 to 10 mm ²	120 [13.6]	0.670 [17.0]	3/16"	4 to 6 AWG, 25 to 16 mm ²	35 (4.0)	0.470 [11.9] top row, 0.780 [19.8] bottom row	Slot
PB1042					8 AWG, 10 mm ²	25 (2.8)		
PB1043					10 to 14 AWG, 6 to 2.5 mm ²	20 (2.3)		
PB3061	350 kcmil to 4 AWG, 185 to 25 mm ²	275 [31.1]	0.90 [22.9]	5/16"	4 to 6 AWG, 25 to 16 mm ²	35 (4.0)	1.00 [25.4] top row 0.45 [11.43] bottom row	Slot
PB3062					8 AWG, 10 mm ²	25 (2.8)		
PB3063					10 to 12 AWG, 6 to 4 mm ²	20 (2.3)		
PB3121	350 kcmil to 4 AWG 185 to 25 mm ²	275 [31.1]	0.90 [22.9]	5/16"	4 to 6 AWG, 25 to 16 mm ²	35 (4.0)	0.450 [11.4] top row, 0.630 [16.0] middle row, 0.920 [23.4] bottom row	Slot
PB3122					8 AWG, 10 mm ²	25 (2.8)		
PB3123					10 to 14 AWG, 6 to 2.5 mm ²	20 (2.3)		

Short-Circuit Current Rating Data												
Part Number	Number of Poles	Capacity*	Line	Load	Configuration	Conductors		Maximum Fuse Class and Amp**				SCCR
			Wire Range	Wire Range	Openings per Pole	Line AWG or kcmil	Load AWG or kcmil	Class J (JDL)	Class T (A3T/ A6T)	Class RK1 (LENRK/ LESRK)	Class RK5 (ECNR/ ECSR)	
PB1011	1	175A	2/0 to 8 AWG 70 to 10 mm ²	2/0 to 8 AWG 70 to 10 mm ²	1/1	2/0 to 8	2/0 to 8	200	200	200	60	200 kA
PB1012	2											
PB1013	3											
PB1041	1	175A	2/0 to 8 AWG 70 to 10 mm ²	4 to 14 AWG 25 to 2.5 mm ²	1/4	2/0 to 8	4 to 12	200	200	200	60	200 kA
PB1042	2						4 to 14	175	175	100	60	100 kA
PB1043	3							200	200	100	60	50 kA
PB3061	1	310A	350 kcmil to 4 AWG 185 to 25 mm ²	4 to 12 AWG 25 to 4 mm ²	1/6	350 to 4	4 to 8	400	400	200	100	200 kA
PB3062	2						4 to 12	400	400	400	100	100 kA
PB3063	3							175	175	100	60	100 kA
PB3121	1	310A	350 kcmil to 4 AWG 185 to 25 mm ²	4 to 14 AWG 25 to 2.5 mm ²	1/12	350 to 4	4 to 8	400	400	200	100	200 kA
PB3122	2						4 to 14	175	175	100	60	100 kA
PB3123	3							175	175	100	60	100 kA
PB4011	1	380A	500 kcmil to 6 AWG 240 to 16 mm ²	One 3/8" - 16 x 1 stud	One 3/8" - 16 x 1 stud	500	One 3/8" - 16 x 1 stud	***	***	***	***	10 kA
PB4012	2					***		***	***	***		
PB4013	3					500 to 6		***	***	***	***	
PB5121	1	570A	300 kcmil to 4 AWG 150 to 25 mm ²	4 AWG to 14 AWG 25 to 2.5 mm ²	2/12	300	4 to 14	***	***	***	***	10 kA
PB5122	2					4 to 14	***	***	***	***		
PB5123	3						300 to 4	4 to 14	***	***	***	
PB7121	1	760A	500 kcmil to 6 AWG 240 to 16 mm ²	4 AWG to 14 AWG 25 to 2.5 mm ²	2/12	500 to 6	4 to 14	***	***	***	***	10 kA
PB7123	3						***	***	***	***		

*Amp ratings are based on NEC® Table 310.16 for 75°C copper wire and UL508A Table 28.1

**Class G 60A or less or Class CC 30A or less fuses are suitable for all SCCR in this table.

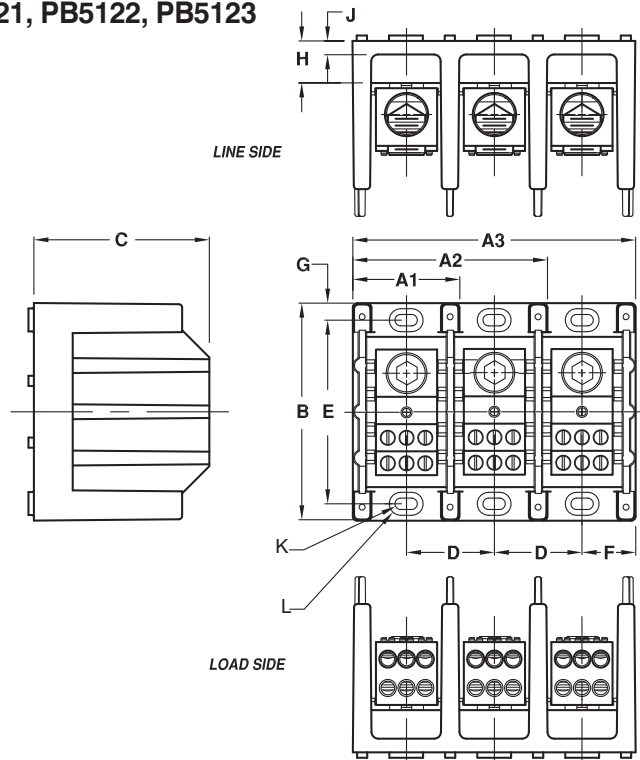
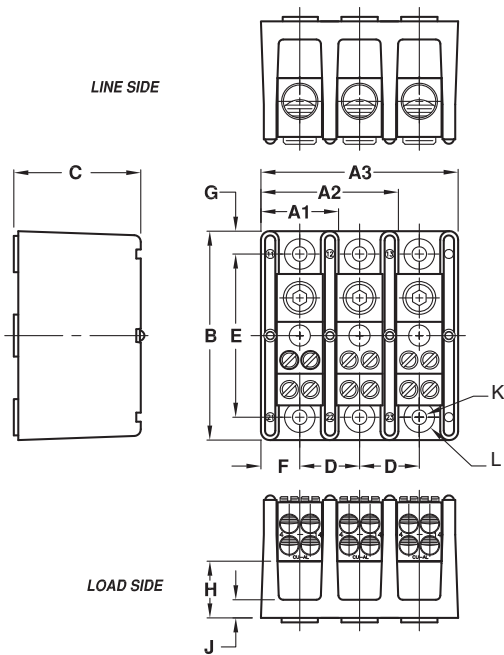
***Not High SCCR rated. Refer to UL508A Table SB4.1.

PB Series Edison Open-Style Terminal Blocks Dimensions

Edison Open-Style Power Distribution Blocks Dimensions (in[mm])													
Part Number	Width			Length		Height							
	A1	A2	A3	B	C	D	E	F	G	H	J	K	L
PB1011	1.06 [26.92]	1.88 [47.75]	2.60 [66.04]	2.85 [72.39]	1.75 [44.45]	0.81 [20.57]	2.25 [57.15]	0.53 [13.46]	0.31 [7.87]	0.84 [21.34]	0.31 [7.87]	0.20 [5.08]	0.42 [10.67]
PB1012													
PB1013													
PB1041													
PB1042													
PB1043													
PB3061	1.96 [49.78]	3.58 [90.93]	5.20 [132.08]	4.0 [101.60]	3.32 [84.33]	1.62 [41.15]	3.37 [85.60]	0.985 [25.02]	0.310 [7.87]	0.780 [19.81]	0.250 [6.35]	Slot 0.20 [5.08] (w) x 0.41 [10.41] (l)	Slot 0.42 [10.67] (w) x 0.62 [15.75] (l)
PB3062													
PB3063													
PB3121													
PB3122													
PB3123													
PB4011	1.96 [49.78]	3.58 [90.93]	5.20 [132.08]	4.0 [101.60]	3.32 [84.33]	1.62 [41.15]	3.37 [85.60]	0.985 [25.02]	0.310 [7.87]	0.780 [19.81]	0.250 [6.35]	Slot 0.20 [5.08] (w) x 0.41 [10.41] (l)	Slot 0.42 [10.67] (w) x 0.62 [15.75] (l)
PB4012													
PB4013													
PB5121													
PB5122													
PB5123													

PB1011, PB1012, PB1013
PB1041, PB1042, PB1043

PB3061, PB3062, PB3063
PB3121, PB3122, PB3123
PB4011, PB4012, PB4013
PB5121, PB5122, PB5123



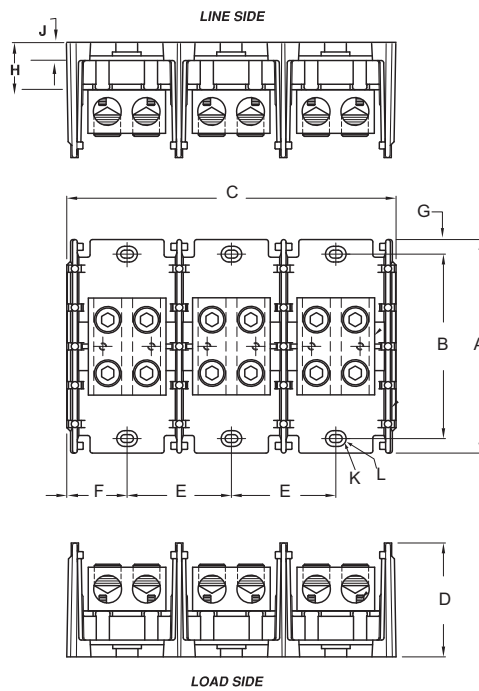
Part Number	Minimum Enclosure Size in[mm]*
PB1011, PB1012, PB1013	16 x 16 x 6.75 [406.4 x 406.4 x 171.45]
PB1041, PB1042, PB1043	16 x 16 x 6.75 [406.4 x 406.4 x 171.45]
PB3061, PB3062, PB3063	24 x 20 x 6.75 [609.6 x 508 x 171.45]
PB3121, PB3122, PB3123	24 x 20 x 6.75 [609.6 x 508 x 171.45]
PB4011, PB4012, PB4013	N/A
PB5121, PB5122, PB5123	N/A
PB7121, PB7123	N/A

*Note: Terminal block SCCR determined based on testing in minimum-size enclosure

PB Series Edison Open-Style Terminal Blocks Dimensions

Edison Open-Style Power Distribution Blocks Dimensions (in [mm])															
Part Number	Width		Length		Height	C2	C3	D	E	F	G	H	J	K	L
	A	B	C1	C2											
PB7121	5.5	4.75	3.10	5.79	8.48	2.93	2.69	1.55	0.38	1.19	0.44	Slot: 0.20 [5.08] (w) x 0.33 [8.38] (l)		Slot: 0.41 [10.41] (w) x 0.53 [13.46] (l)	
PB7123	[139.7]	[120.7]	[78.74]	[147.1]	[215.39]	[74.42]	[68.33]	[39.37]	[9.65]	[30.23]	[11.18]				

PB7121, PB7123

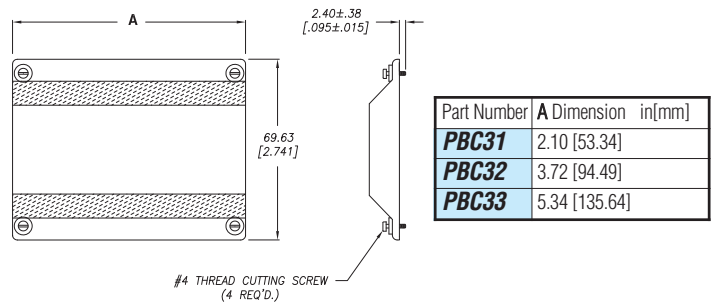
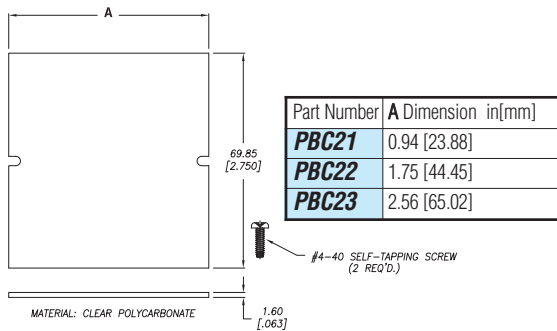


Covers

Optional Cover for
PB1011, PB1012, PB1013
PB1041, PB1042, PB1043

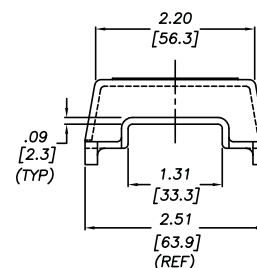
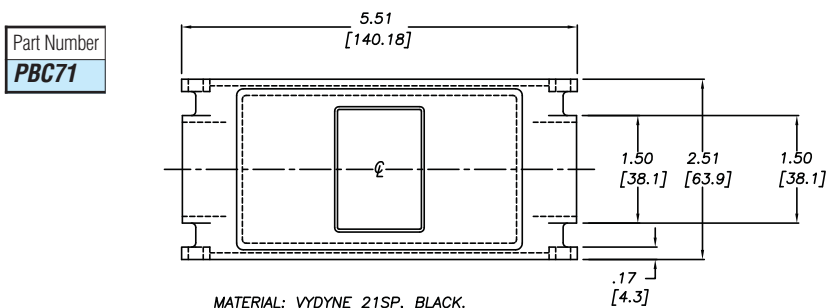
Optional Cover for
PB3061, PB3062, PB3063
PB3121, PB3122, PB3123

Optional Cover for
PB4011, PB4012, PB4013
PB5121, PB5122, 5123



Optional Cover for PB7121 and PB7123

Note: Dimensions are in inches [millimeters]



METRIC ±.13mm
INCHES ±.005"

Edison Open-Style Power Distribution Blocks Quick Reference

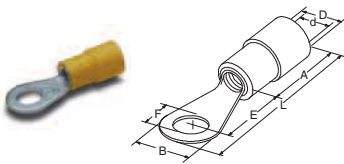
Openings per pole	Type	175 amps	310 amps	380 amps	570 amps	760 amps
1 in 1 out	Open UL1059	PB101x	NO	NO	NO	NO
	Open UL1953 Listed	HPB101-x	HPB101-x	NO	NO	NO
	Finger Safe UL1953 Listed	EPDB101	EPDB301	NO	NO	NO
1 in 1 stud out	Open UL1059	NO	NO	PB401x	NO	NO
	Open UL1953 Listed	HPB10S-x	NO	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
2 in 2 out	Open UL1059	NO	NO	NO	NO	NO
	Open UL1953 Listed	NO	NO	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	NO	EPDB702
1 in 4 out	Open UL1059	PB104x	NO	NO	NO	NO
	Open UL1953 Listed	HPB104-x	HPB104-x	NO	NO	NO
	Finger Safe UL1953 Listed	EPDB104	NO	NO	NO	NO
1 in 6 out	Open UL1059	NO	PB306x	NO	NO	NO
	Open UL1953 Listed	HPB106-x	HPB306-x	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	EPDB306	NO	NO
1 in 9 out	Open UL1059	NO	NO	NO	NO	NO
	Open UL1953 Listed	NO	HPB309-x	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
1 in 12 out	Open UL1059	NO	PB312x	NO	NO	NO
	Open UL1953 Listed	NO	HPB312-x	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	NO	NO
2 in 12 out	Open UL1059	NO	NO	NO	PB512x	PB712x
	Open UL1953 Listed	NO	NO	NO	NO	NO
	Finger Safe UL1953 Listed	NO	NO	NO	EPDB512	NO

Wiring Accessories – Crimp Terminals

Crimp Terminals

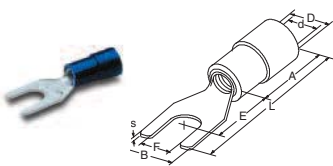
Our PVC insulated crimping terminals are manufactured using high quality electrolytically tin-plated (99.9%) copper, and are rated up to 105°C. Our ring and fork terminals feature a special easy-entry wire guide design to speed and ease wiring.

Ring terminals



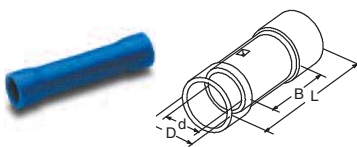
PVC Ring Terminal Specifications																
Part # (BM-)	AWG	Max Voltage Rating	Max Current Rating*	Color	Bolt Hole Size	Pcs/Pkg	Price/Pkg	Screw Dia. (mm)	Dimensions (mm)							
									F	B	A	E	L	d	D	s
BM-00119	22-16	300 VAC/VDC	12 A	Red	#6-8	100	<--->	4	4.2	8.0	10.4	7.5	22.0	1.95	4.2	0.8
BM-00125	22-16		12 A	Red	#10	100	<--->	5	5.2	8.0	10.4	8.0	22.4	1.95	4.2	0.8
BM-00219	16-14		20 A	Blue	#6-8	100	<--->	4	4.2	8.0	11.0	8.0	23.0	2.45	4.8	0.8
BM-00225	16-14		20 A	Blue	#10	100	<--->	5	5.2	9.0	11.0	7.5	23.6	2.5	4.8	0.8
BM-00319	12-10		35 A	Yellow	#6-8	50	<--->	4	4.2	8.0	14.0	8.4	26.5	3.5	6.6	1.0
BM-00325	12-10		35 A	Yellow	#10	50	<--->	5	5.2	10.0	14.0	8.5	27.5	3.5	6.6	1.0

Fork terminals



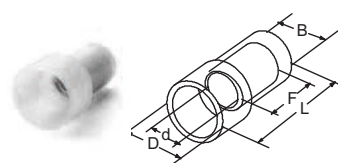
PVC Fork Terminal Specifications																
Part #	AWG	Max Voltage Rating	Max Current Rating*	Color	Bolt Hole Size	Pcs/Pkg	Price/Pkg	Screw Dia. (mm)	Dimensions (mm)							
									F	B	A	E	L	d	D	s
BM-00120	22-16	300 VAC/VDC	12 A	Red	#6-8	100	<--->	4.0	4.2	6.4	10.4	6.3	20.9	1.95	4.2	0.8
BM-00126	22-16		12 A	Red	#10	100	<--->	5.0	5.2	8.0	10.4	8.0	21.2	1.95	4.2	0.8
BM-00220	16-14		20 A	Blue	#6-8	100	<--->	4.0	4.2	6.6	11.0	5.3	20.3	2.45	4.8	0.8
BM-00226	16-14		20 A	Blue	#10	100	<--->	5.0	5.2	9.1	11.0	9.5	25.0	2.45	4.8	0.8
BM-00320	12-10		35 A	Yellow	#6-8	50	<--->	4.0	4.2	8.1	14.0	7.2	26.0	3.50	6.6	1.0
BM-00326	12-10		35 A	Yellow	#10	50	<--->	5.0	5.2	9.0	14.0	10.5	28.5	3.50	6.6	1.0

Butt connectors



PVC Butt Connector Specifications										
Part #	AWG	Max Voltage Rating	Max Current Rating*	Color	Pcs/Pkg	Price/Pkg	Dimensions (mm)			
							B	L	d	D
BM-00160	22-16	300 VAC/VDC	12 A	Red	100	<--->	15.0	26	1.8	4.2
BM-00260	16-14		20 A	Blue	100	<--->	15.0	26	2.5	4.8
BM-00360	12-10		35 A	Yellow	50	<--->	15.0	27	3.7	6.5

End connectors



Nylon End Connector Specifications											
Part #	AWG	Max Voltage Rating	Max Current Rating*	Color	Pcs/Pkg	Price/Pkg	Dimensions (mm)				
							B	F	L	d	D
BM-00170	22-16	300 VAC/VDC	12 A	Clear	100	<--->	5.6	6.8	15.2	2.6	6.2
BM-00270	16-14		20 A	Clear	100	<--->	5.9	7.0	15.2	3.2	6.5
BM-00370	12-10		35 A	Clear	50	<--->	7.3	8.5	17.8	4.0	9.4

*Note: According to UL 486AB, Tab 7

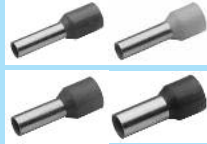
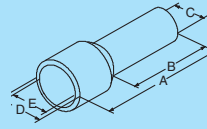

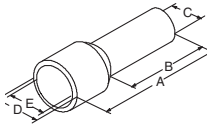

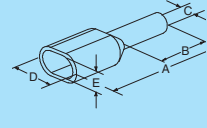

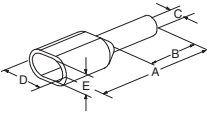
Wiring Accessories – Insulated Ferrules

Insulated ferrules

Ferrules are cylindrically-shaped copper tubes crimped to the ends of stranded wire to create a secure, reliable connection. They are primarily used to consolidate wire strands for the purpose of eliminating wire fraying and resulting shorts, as well as for allowing easier insertion and removal of wires from terminal blocks or other termination devices, especially in areas of confined space or when using small wires. Ferrules also create a reliable connection by ensuring that each wire strand conducts current. Two-wire ferrules allow two individual stranded conductors to be connected to the same termination, which can be especially useful in jumpering applications. Our ferrules are made from electrolytically tin-plated copper (99.9%) with either standard or DIN color polypropylene insulation rated to 105°C. When selecting ferrules for use with **DIN**nectors, choose the longest length version where available.

Note: See *PLC Compatibility Chart* on the next page.

* **Standard Colors** are defined by the **Manufacturer's identification system**. **DIN Colors** are defined to meet the **DIN standard 46228/4 identification system**.

	Part #	Color*	AWG (mm ²)	Pcs/ Pkg	Price/ Pkg	Dimensions (mm)					
						A	B	C	D	E	
Standard Color Single Wire  	BM-00501	Orange	22 (.5)	500	<--->	14	8	1	3.1	2.6	
	BM-00502	White	20 (.75)	500	<--->	14	8	1.2	3.3	2.8	
	BM-00503	Yellow	18 (1)	500	<--->	14	8	1.4	3.5	3	
	BM-00504	Red	16 (1.5)	500	<--->	14	8	1.7	4	3.5	
	BM-005041	Red	16 (1.5)	500	<--->	16	10	1.7	4	3.5	
	BM-00506	Blue	14 (2.5)	250	<--->	14	8	2.2	4.7	4.2	
	BM-005061	Blue	14 (2.5)	250	<--->	18	12	2.2	4.7	4.2	
	BM-00508	Gray	12 (4)	200	<--->	17	10	2.8	5.4	4.8	
	BM-005081	Gray	12 (4)	200	<--->	20	12	2.8	5.4	4.8	
	BM-00510	Black	10 (6)	100	<--->	20	12	3.5	6.9	6.3	
	BM-00511	Black	10 (6)	100	<--->	26	18	3.5	6.9	6.3	
	BM-00512	Ivory	8 (10)	50	<--->	22	12	4.5	8.4	7.6	
	BM-00513	Ivory	8 (10)	50	<--->	28	18	4.5	8.4	7.6	
	BM-00514	Green	6 (16)	50	<--->	24	12	5.8	9.6	8.8	
	BM-00515	Green	6 (16)	50	<--->	28	18	5.8	9.6	8.8	
	BM-00516	Brown	4 (25)	100	<--->	30	16	7.3	12	11.2	
	BM-00517	Beige	2 (35)	100	<--->	30	16	8.3	13.5	12.7	
	BM-00518	Olive	1 (50)	100	<--->	36	20	10.3	16	15	
DIN 46228/4-Color Single Wire  	BM-00601	White	22 (.5)	500	<--->	14	8	1	3.1	2.6	
	BM-00602	Gray	20 (.75)	500	<--->	14	8	1.2	3.3	2.8	
	BM-00603	Red	18 (1)	500	<--->	14	8	1.4	3.5	3	
	BM-00604	Black	16 (1.5)	500	<--->	14	8	1.7	4	3.5	
	BM-006041	Black	16 (1.5)	500	<--->	16	10	1.7	4	3.5	
	BM-00506	Blue	14 (2.5)	250	<--->	14	8	2.2	4.7	4.2	
	BM-005061	Blue	14 (2.5)	250	<--->	18	12	2.2	4.7	4.2	
	BM-00508	Gray	12 (4)	200	<--->	17	10	2.8	5.4	4.8	
	BM-005081	Gray	12 (4)	200	<--->	20	12	2.8	5.4	4.8	
	BM-00610	Yellow	10 (6)	100	<--->	20	12	3.5	6.9	6.3	
	BM-00611	Yellow	10 (6)	100	<--->	26	18	3.5	6.9	6.3	
	BM-00612	Red	8 (10)	50	<--->	22	12	4.5	8.4	7.6	
	BM-00613	Red	8 (10)	50	<--->	28	18	4.5	8.4	7.6	
	BM-00614	Blue	6 (16)	50	<--->	24	12	5.8	9.6	8.8	
	BM-00615	Blue	6 (16)	50	<--->	28	18	5.8	9.6	8.8	
	BM-00616	Yellow	4 (25)	100	<--->	30	16	7.3	12	11.2	
	BM-00617	Red	2 (35)	100	<--->	30	16	8.3	13.5	12.7	
	BM-00618	Blue	1 (50)	100	<--->	36	20	10.3	16	15	
Standard Color Twin Wire  	BM-00551	Orange	2x22 (.5)	200	<--->	15	8	1.4	4.7	2.5	
	BM-00552	White	2x20 (.75)	200	<--->	15	8	1.7	5	2.8	
	BM-00553	White	2x20 (.75)	200	<--->	17	10	1.7	5	2.8	
	BM-00554	Yellow	2x18 (1)	200	<--->	15	8	1.95	5.4	3.4	
	BM-00555	Yellow	2x18 (1)	200	<--->	17	10	1.95	5.4	3.4	
	BM-00556	Red	2x16 (1.5)	200	<--->	16	8	2.2	6.6	3.6	
	BM-00557	Red	2x16 (1.5)	200	<--->	20	12	2.2	6.6	3.6	
	BM-00558	Blue	2x14 (2.5)	100	<--->	18.5	10	2.8	7.8	4.2	
	BM-00559	Blue	2x14 (2.5)	100	<--->	21.5	13	2.8	7.8	4.2	
	BM-00560	Gray	2x12 (4)	100	<--->	23	12	3.7	8.8	4.9	
	BM-00561	Black	2x10 (6)	50	<--->	26	14	4.8	10	6.9	
	BM-00562	Ivory	2x8 (10)	100	<--->	26	14	6.4	13	7.2	
	BM-00563	Green	2x6 (16)	50	<--->	30	14	8.2	18.4	9.6	
	DIN 46228/4-Color Twin Wire  	BM-00651	White	2x22 (.5)	200	<--->	15	8	1.4	4.7	2.5
		BM-00652	Gray	2x20 (.75)	200	<--->	15	8	1.7	5	2.8
		BM-00653	Gray	2x20 (.75)	200	<--->	17	10	1.7	5	2.8
		BM-00654	Red	2x18 (1)	200	<--->	15	8	1.95	5.4	3.4
		BM-00655	Red	2x18 (1)	200	<--->	17	10	1.95	5.4	3.4
BM-00656		Black	2x16 (1.5)	200	<--->	16	8	2.2	6.6	3.6	
BM-00657		Black	2x16 (1.5)	200	<--->	20	12	2.2	6.6	3.6	
BM-00558		Blue	2x14 (2.5)	100	<--->	18.5	10	2.8	7.8	4.2	
BM-00559		Blue	2x14 (2.5)	100	<--->	21.5	13	2.8	7.8	4.2	
BM-00560		Gray	2x12 (4)	100	<--->	23	12	3.7	8.8	4.9	
BM-00661	Yellow	2x10 (6)	50	<--->	26	14	4.8	10	6.9		
BM-00662	Red	2x8 (10)	100	<--->	26	14	6.4	13	7.2		
BM-00663	Blue	2x6 (16)	50	<--->	30	14	8.2	18.4	9.6		

Wiring Accessories – Wiring Kits

Wiring ferrule, connector, and terminal kits

Kit	Description	Price
BM-80409	Connector assortment kit; Includes: assorted PVC ring, fork, and butt connectors; case; BM-534 crimping tool	<--->
BM-80418	Ferrule assortment kit; Includes: assorted ferrules; case; ferrule crimping tool (tool not sold separately)	<--->

BM-80409 Contents	
Part #	Quantity
BM-00119	25
BM-00125	25
BM-00120	25
BM-00126	25
BM-00160	25
BM-00170	25
BM-00225	25
BM-00220	25
BM-00226	25
BM-00260	25
BM-00319	25
BM-00325	25
BM-00326	25
BM-00360	25
BM-00270	25
BM-00370	25
BM-534	1

BM-80418 Contents	
Part #	Quantity
BM-00501	50
BM-00502	50
BM-00503	50
BM-00504	50
BM-005041	50
BM-00506	50
BM-005061	50
BM-00508	50
BM-005081	50
BM-541 * (crimp tool)	1

* BM-541 crimping tool not sold separately

BM-80418
ferrule kit



Crimping tool included!

BM-80409
PVC ring, fork, butt terminal kit



Crimping tool included!

Ferrule - Wire Size chart for AutomationDirect PLCs

Ferrule - Wire Size Chart for AutomationDirect PLCs						
Wire Size (AWG)		20	18	16	14	12
PLC Terminals	Ferrule Part #	BM-00502	BM-00503	BM-00504	BM-00506	BM-00508
	Crimping Tool	DN-CT-xxx tool with DN-CT-D4 die - or - BM-537 tool				
	CLICK	Y	Y	N	N	N
	DL05	Y	N	N	N	N
	DL06	Y	Y	N	N	N
	DL105	Y	Y	N	N	N
	205 8 pt	Y	Y	Y	N	N
	205 16 pt	Y	Y	N	N	N
	305 8 pt	Y	Y	Y	Y	N
	305 16 pt	Y	Y*	N	N	N
	405 8 pt	Y	Y	Y	Y	N
	405 16 pt	Y	Y	Y	Y	N
	Terminator I/O screwless**	Y	Y	Y	Y	N
	Terminator I/O screw	Y	Y	Y	Y	N

*Note: Y for D3 Series; N for F3 series
**Orient ferrule with crimp flat side facing outward from terminal block to prevent pop-out.

Wiring Accessories – Crimping Tools

Crimping Tools Overview

Our high-quality industrial crimping tools are designed to crimp a wide range of insulated and non-insulated crimping terminals, ferrules, and connectors. They feature ergonomic handles and

controlled-cycle ratcheting mechanisms to guarantee a uniform crimp every time. Choose from fixed or interchangeable die tools, or tool/die sets with multiple dies.



BM-53x Crimping Tool



BM-5345 Crimping tool and die set

Fixed-Die Crimping Tools				
Part #	Description	Fig.	Pcs/Pkg	Price/Pkg
BM-537	Ferrule crimping tool: 22 to 12 AWG for ferrules 0.5-4 mm ²	1	1	<--->
BM-539	Ferrule crimping tool: 10 to 6 AWG for ferrules 6-16 mm ²	2	1	<--->
BM-533	Ferrule crimping tool: 8 to 2 AWG for ferrules 10-35 mm ²	3	1	<--->
BM-534	Connector crimping tool: 22 to 10 AWG, for ring, spade, and disconnect terminals	4	1	<--->
BM-5345	Crimping tool & Die set; includes crimping tool, case, and 5 die sets. (BM-537, BM-539, BM-535, BM-534 and BM-531 (Fig. 5) See below for descriptions.	N/A	1	<--->

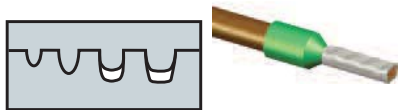


Fig. 1 (BM-537)
End Sleeve Terminals 22-12 AWG (0.5-4 mm²)

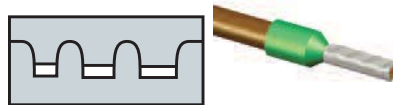


Fig. 2 (BM-539)
End Sleeve Terminals 10-6 AWG (6-16mm²)



Fig. 3 (BM-535)
Uninsulated Copper Terminals 20-8 AWG (0.5-10 mm²)

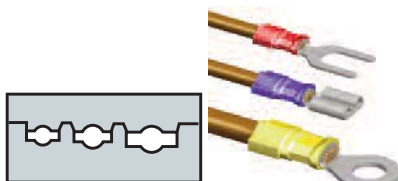


Fig. 4 (BM-534)
Insulated Terminals 22-10 AWG (0.25-6 mm²)



Fig. 5 (BM-531)
Barrel Open Terminals 20-10 AWG (0.5-6 mm²)

Interchangeable-Die Crimping Tools			
Part #	Description *	Pcs /Pkg	Price Each
DN-CT-HDL	Crimping tool handle for DN-CT-Dx dies (dies NOT included) Approximate dimensions: 9.75 x 2.52 x 0.95 in (234 x 64 x 24 mm); 16.2 oz (460g)	1	<--->
DN-CT-D1	Die set for DN-CT-HDL; 26-22 & 12-10 AWG (0.1-0.4 & 4-6 mm ²) green & yellow insulated terminals	1	<--->
DN-CT-D2	Die set for DN-CT-HDL; 22-14 AWG (0.5-2.5 mm ²) red & blue insulated terminals	1	<--->
DN-CT-D3	Die set for DN-CT-HDL; 22-10 AWG (0.5-6 mm ²) non-insulated terminals	1	<--->
DN-CT-D4	Die set for DN-CT-HDL; 24-8 AWG (0.25-10 mm ²) wire ferrules	1	<--->
DN-CT-D5	Die set for DN-CT-HDL; 6-4 AWG (16-25 mm ²) wire ferrules	1	<--->
DN-CT-D6	Die set for DN-CT-HDL; 2-1/0 AWG (35-50 mm ²) wire ferrules	1	<--->
DN-CT-D7	Die set for DN-CT-HDL; 22-10 AWG (0.5-6 mm ²) open barrel non-insulated terminals	1	<--->
DN-CT-D8	Die set for DN-CT-HDL; 8-pin (RJ45) modular plugs	1	<--->
DN-CT-D9	Die set for DN-CT-HDL; 6-pin (RJ11/RJ12) modular plugs	1	<--->
DN-CT-SET	Crimping tool modular system; includes handle and three die sets (DN-CT-HDL + DN-CT-D2 + DN-CT-D4 + DN-CT-D5) The die pairs are held together for easy handling, and interchange without separate tools.	1	<--->

* The DN-CT-xx series features a crimping tool with multiple interchangeable dies separately available. The die pairs are held together for easy handling, and can be interchanged without separate tools.



DN-CT-HDL Crimping Tool



DN-CT-SET Crimping Tool & Die Set

Wiring Accessories – Crimping Tool

DN-CT-Dx Interchangeable Crimping Dies (for DN-CT-xxx crimping tool only)

These dies are held together for easy handling, and can be interchanged without additional tools. All DN-CT-Dx dies have been tested on leading brands of connectors to ensure quality connections. Dies come in modular holders that can be connected together when not in use.



DN-CT-Dx die & holder



DN-CT-D1 (4300-3128)
Insulated Terminals & Connectors
26–22 AWG & 12–10 AWG
[Green & Yellow] (0.1–0.4 & 4–6 mm²)



DN-CT-D2 (4300-3129)
Insulated Terminals & Connectors
22–14 AWG
[Red & Blue] (0.5–2.5 mm²)



DN-CT-D3 (4300-3142)
Non-Insulated Terminals & Connectors
22–10 AWG (0.5–6 mm²)



DN-CT-D4 (4300-3127)
Wire Ferrules
24–8 AWG (0.25–10 mm²)



DN-CT-D5 (4300-3153)
Wire Ferrules
6–4 AWG (16–25 mm²)



DN-CT-D6 (4300-3154)
Wire Ferrules
2–1/0 AWG (35–50 mm²)



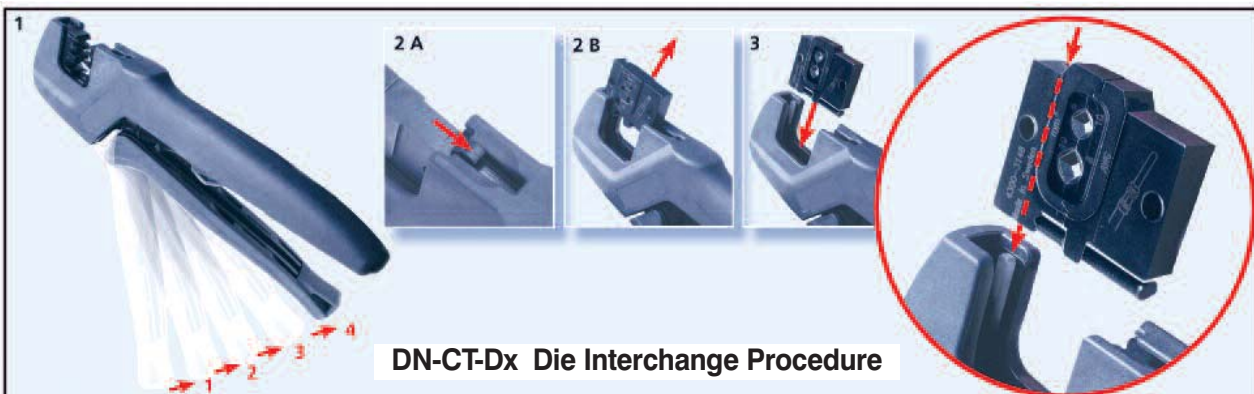
DN-CT-D7 (4300-3146)
Non-Insulated Open-Barrel Terminals
22–10 AWG (0.5–6 mm²)



DN-CT-D8 (4300-3144)
8-pin Modular Plugs
RJ45



DN-CT-D9 (4300-3132)
6-pin Modular Plugs
RJ11/RJ12



DN-CT-Dx Die Interchange Procedure

Wiring Accessories – Cutting & Stripping Tools

Wire Cutting and Stripping Tools

Wire Cutting and Stripping Tools			
Part #	Description	Pcs /Pkg	Price Each
Self-Adjusting Cutting and Stripping Tool			
DN-WS	Cutting and stripping tool with replaceable blades and jaw inserts; includes (1) DN-WSJ blade Approximate dimensions: 7.5 x 4.8 x 0.8 in (191 x 123 x 20 mm); Weight: 4.8 oz (136g)	1	<--->
DN-WSJ	DN-WS replacement straight-blade insert; for PVC insulations; 34-8 AWG (0.02-10 mm ²)	1	<--->
DN-WSMMC	DN-WS 16 mm ² blade insert; 12-5 AWG (4-16 mm ²)	1	<--->
DN-WSVBC	DN-WS V-blade insert; for harder insulations such as PTFE & PVC; 28-12 AWG (0.1-4 mm ²)	1	<--->
DN-WSRJ	DN-WS replacement jaw inserts	2	<--->
Cable Stripping Tool			
DN-CST	Cable stripping tool; cable diameters 0.1-0.43 in (2.5-11 mm) with insulation up to 0.04 in (1.0 mm) thick Approximate dimensions: 3.6 x 1.6 x 0.8 in (90.5 x 39.5 x 19 mm); Weight: 0.9 oz (28g)	1	<--->
DN-CST-BLADE	DN-CST replacement blade	1	<--->

Self-Adjusting Cut and Strip Tool DN-WS

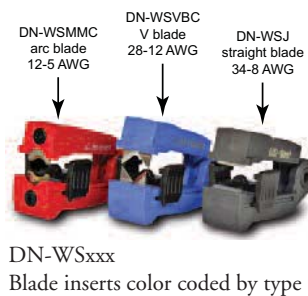
- Widest stripping capacity of any tool of its type
- Easily interchangeable stripping cassettes are available for stripping a wide range of most modern insulation types, from PVC to PTFE; color coded by stripping blade type
- No additional tools required to change stripping blade cassettes
- Precise adjustability allows stripping of various insulation thicknesses without damage to conductors
- Easy snag-free wire removal after stripping
- Ergonomic design with soft-grip handle
- Light weight and strong; molded in high-strength plastic with twice the strength of standard nylon; tested 150k cycles
- Cutting capacity:
Stranded conductors to 8AWG (10 mm²)
Solid conductors to 16 AWG (1.5 mm²)



DN-WS stripping blade replacement



DN-WS wire cutting

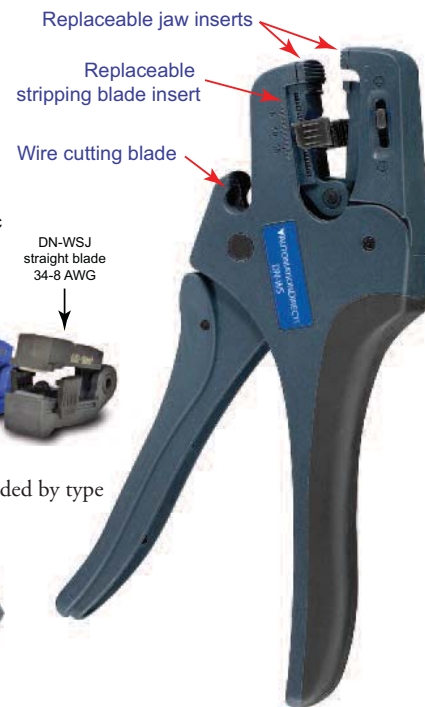


DN-WSxxx
Blade inserts color coded by type



DN-WSRJ

DN-WS Cutting & Stripping Tool



Replaceable jaw inserts

Replaceable stripping blade insert

Wire cutting blade

Cable Stripping Tool DN-CST

Small, simple, safe, and precise tool for removing insulation from copper and fiber optic audiovisual, data transmission, instrumentation, signal, and telephone cables.

- Precise: 9-position blade height adjustment wheel for fine adjustability and repeatability
- Easy to use: Squeeze the tool together to open the stripping cavity, insert cable, rotate once, and remove tool from cable. Separately pull scrap insulation off of cable.
- Safe: Smooth, rounded, pocketable, and lightweight design; no exposed blades
- Tough: Impact resistant nylon tested to over 50k cycles
- Economical: Replacement blades available
- Cable capacity: Ø 0.1-0.43 in (2.5-11 mm)
- Insulation thickness: Up to 0.04 in (1.0 mm)



DN-CST
Precision Stripping Tool
[squeeze, insert cable, rotate, & remove]

DN-CST-BLADE
Replacement Blade



Precision Stripping Tool
Easily replaceable blade