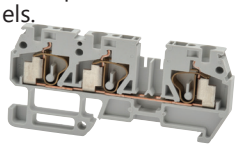
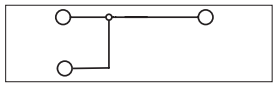
# DINnectors® Screwless One-Connection to Two-Connection Terminal Blocks

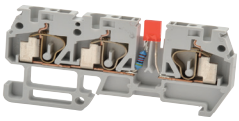
Unlike screw terminal blocks, screwless terminal block spring clamps are designed to clamp a single wire. If your application requires multiple wires to be tied together, we offer multiple versions, including one-to-two and two-to-two models.

These versions allow multiple wires to be connected together by way of multiple spring clamps and are 35mm DIN-rail mountable. LED and diode variations are also available in this style.

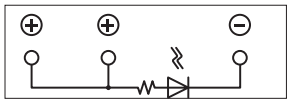


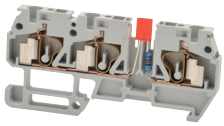
**DN-Q12-1-2-A**
**(Euro QM1/2 2.5/35)**





**DN-Q12-1-2L1-A**
**(Euro QM1/2 2.5/35)**





**DN-Q12-1-2L2-A**
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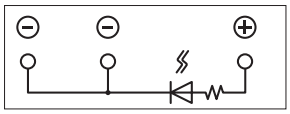
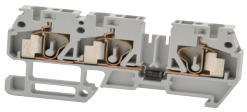
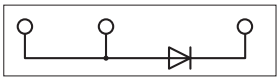




**DN-Q12-1-2DR-A**
**(Euro QM1/2 2.5/35)**



*1N4007 Reverse bias diode*
*(See Diode information located on page tTBL-60)*

## Ordering Information

| | Part Number | Qty | Price | Part Number | Qty | Price | Part Number | Qty | Price | Part Number | Qty | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Gray Term Block** | DN-Q12-1-2-A | 25 | $39.50 | DN-Q12-1-2L1-A | 10 | $39.00 | DN-Q12-1-2L2-A | 10 | $39.00 | DN-Q12-1-2DR-A | 10 | $35.00 |
| **Blue Term Block** | DN-Q12B-1-2-A | 25 | $42.00 | – | | | – | | | – | | |
| **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 | | |

## Technical Specifications

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Stripping Length** | 12mm [0.47 in] | | | 12mm [0.47 in] | | | 12mm [0.47 in] | | | 12mm [0.47 in] | | |
| **Density** | 200/m [60 pcs/ft] | | | 200/m [60 pcs/ft] | | | 200/m [60 pcs/ft] | | | 200/m [60 pcs/ft] | | |
| **UL Approval*** | 600V | 20A | 24-12 AWG | 600V | 20A | 24-12AWG | 600V | 20A | 24-12 AWG | 600V | 1A diode | 24-12 AWG |
| **CSA Approval** | 600V | 20A | 24-12 AWG | 600V | 20A | 24-12AWG | 600V | 20A | 24-12 AWG | 600V | 1A diode | 24-12 AWG |
| **VDE Approval** | 630V | 24A | 2.5 mm² | 630V | 24A | 2.5 mm² | 630V | 24A | 2.5 mm² | 630V | 1A diode | 2.5 mm² |
| **LED Voltage** | – | | | 12 -24 VAC/DC 3.4 kΩ | | | 12 -24 VAC/DC 3.4 kΩ | | | – | | |
| **Operating Temp** | Ambient air temperature: -20 to 105°C [-4 to 221°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] | | | | | | | | | | | |
| **SCCR Rating** | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components | | | | | | | | | | | |
| **CE Conformity** | CE (EN 60947-1 / EN 60947-7-1) | | | | | | | | | | | |
| **Agency File #** | UL E179129 | | | | | | | | | | | |

## Accessories

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **End Covers** | | DN-QEC12-1-2 | 25 | $15.00 | DN-QEC12-1-2 | 25 | $15.00 | DN-QEC12-1-2 | 25 | $15.00 | DN-QEC12-1-2 | 25 | $15.00 |
| **Jumper** | **2-pole** | DN-2J2Y | 100 | $43.00 | – | | | – | | | – | | |
| | | DN-2J2YMN | 25 | $13.00 | | | | | | | | | |
| | **3-pole** | DN-3J2Y | 100 | $62.00 | | | | | | | | | |
| | | DN-3J2YMN | 25 | $18.00 | | | | | | | | | |
| | **24-pole** | DN-24J2Y | 5 | $28.00 | | | | | | | | | |
| **Cutting Tool** | | DN-J2CUT | 1 | $79.00 | DN-J2CUT | 1 | $79.00 | DN-J2CUT | 1 | $79.00 | DN-J2CUT | 1 | $79.00 |
| **35mm DIN Rail** | | DN-R35S1 | 10 | $56.00 | DN-R35S1 | 10 | $56.00 | DN-R35S1 | 10 | $56.00 | DN-R35S1 | 10 | $56.00 |
| | | DN-R35S1-2 | 2 | $14.00 | DN-R35S1-2 | 2 | $14.00 | DN-R35S1-2 | 2 | $14.00 | DN-R35S1-2 | 2 | $14.00 |
| **End Brackets** | | DN-EB35 | 50 | $67.00 | DN-EB35 | 50 | $67.00 | DN-EB35 | 50 | $67.00 | DN-EB35 | 50 | $67.00 |
| | | DN-EB35MN | 20 | $31.50 | DN-EB35MN | 20 | $31.50 | DN-EB35MN | 20 | $31.50 | DN-EB35MN | 20 | $31.50 |
| | | DN-EB35-A | 50 | $47.50 | DN-EB35-A | 50 | $47.50 | DN-EB35-A | 50 | $47.50 | DN-EB35-A | 50 | $47.50 |
| | | DN-EB35-A-10 | 10 | $12.00 | DN-EB35-A-10 | 10 | $12.00 | DN-EB35-A-10 | 10 | $12.00 | DN-EB35-A-10 | 10 | $12.00 |
| | | DN-QEB35 | 50 | $42.50 | DN-QEB35 | 50 | $42.50 | DN-QEB35 | 50 | $42.50 | DN-QEB35 | 50 | $42.50 |
| | | DN-QEB35-10 | 10 | $11.50 | DN-QEB35-10 | 10 | $11.50 | DN-QEB35-10 | 10 | $11.50 | DN-QEB35-10 | 10 | $11.50 |
| **Angled Support Bracket** | | DN-ASB1 | 50 | $107.00 | DN-ASB1 | 50 | $107.00 | DN-ASB1 | 50 | $107.00 | DN-ASB1 | 50 | $107.00 |
| **Marking Tags** | | DN-QL Series | 500 | various | DN-QL Series | 500 | various | DN-QL Series | 500 | various | DN-QL Series | 500 | various |

*** Copper wire only.**
**For more information on accessories, see the DIN*nector*s Accessories section of this chapter.**

# DINnectors® Screwless One-Connection to Two-Connection Terminal Blocks

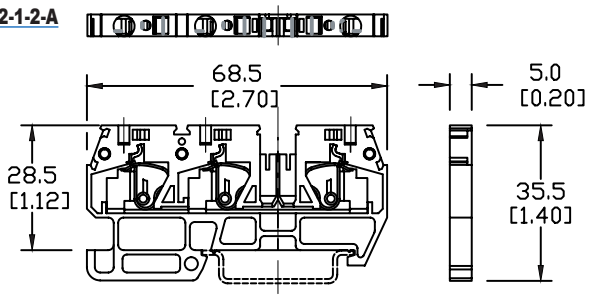
| 1N4007 Diode Information | | |
|---|---|---|
| *RMS Reverse Voltage** | *V (Rrms)* | *600V* |
| *Average Rectified Forward Current Single Phase, Resistive Load, 60Hz* | I (O) | 1.0 A |
| *Non-Repetitive Peak Surge Current (Surge applied at rated load)* | I (FSM) | 30A (1 cycle) |
| *Maximum Forward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

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

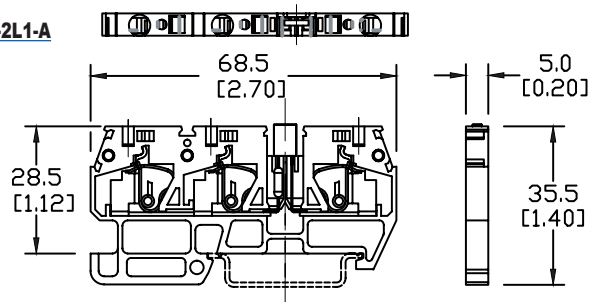
## Dimensions

***mm [inches]***

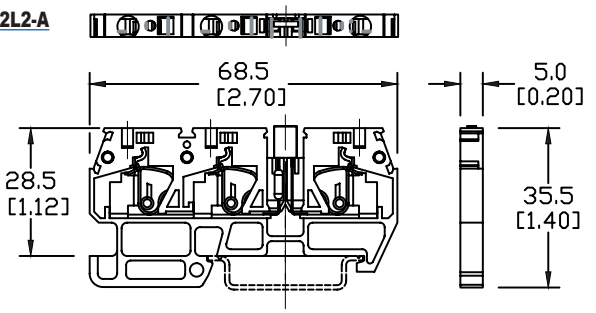
**DN-Q12-1-2-A**



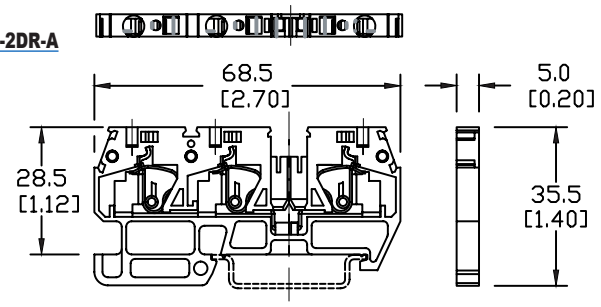

**DN-Q12-1-2L1-A**




**DN-Q12-1-2L2-A**




**DN-Q12-1-2DR-A**



# Screwless Terminal Blocks Overview

## Why go screwless?

Screwless clamping technology offers several benefits:

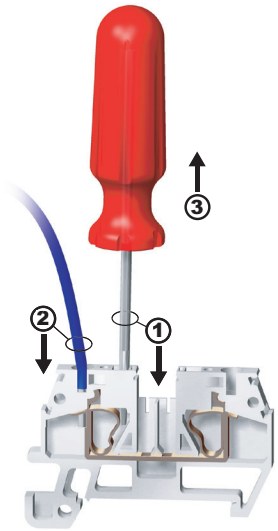
- Speed: On average, screwless connections can be made in half the time of screw type connections, cutting installation labor costs in half.
- Ease: No need for twisting and turning screws, so screwless terminal blocks are much easier on the installer's hands and arms. Also, wiring from the top of the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

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

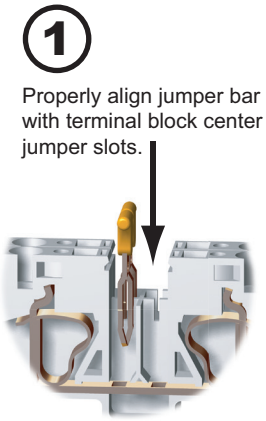
Unless you need to clamp multiple wires to the same connection point, the answer is no. If you do, then there may be a slight trade-off in requiring more panel space than with screw terminal blocks. Unlike screw terminal blocks, screwless terminal block spring-clamps are designed to clamp a single wire,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

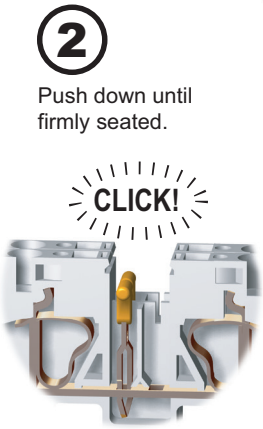
## How does it work?

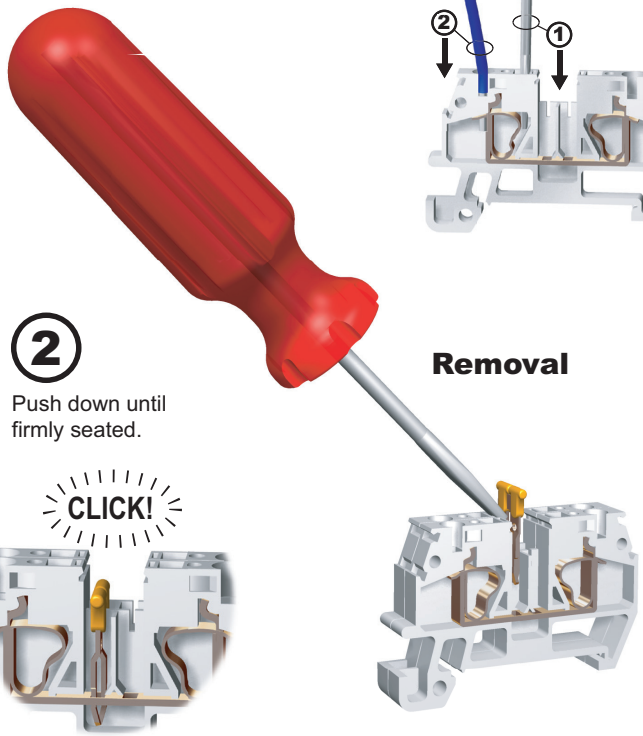
Well, it's pretty simple: Push, Insert, Release. Just push your screwdriver into the spring clamp (a rectangular shaped hole) to open the spring clamp; insert the stripped wire into the clamp a circular shaped hole), and pull out your screwdriver to release the clamp against the wire. That's it. The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

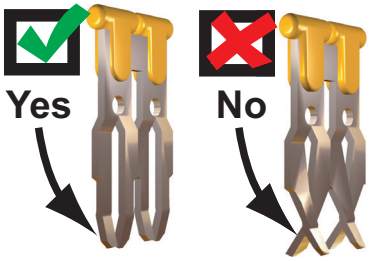



## How do the jumpers work?



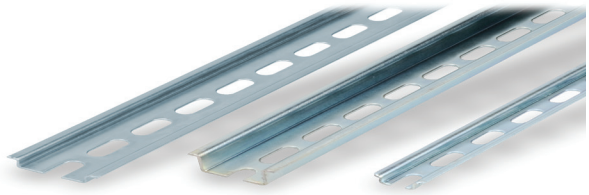




**Yes = Good, acceptable jumper**
**No = Bad, damaged jumper**

# DINnectors® Accessories

## Steel DIN Rails Features



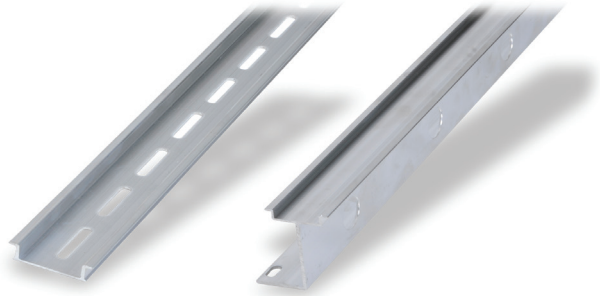
***35mm wide***
- Available in 1-meter lengths
- 7.5 mm-high rails primarily used to mount terminal blocks, relays, timers and small PLCs such as the BRX, CLICK, DirectLogic and Productivity series. 15mm-high rails for mounting larger and heavier components such as contactors and larger PLCs

***15mm wide***
- Available in 1-meter lengths
- DN-R15S1 exclusively for mounting mini terminal blocks such as the DN-M10-A

**Steel DIN Rails Specifications**

| | Part Number | Qty | Price | Part Number | Qty | Price | Part Number | Qty | Price |
|---|---|---|---|---|---|---|---|---|---|
| DIN Rail | DN-R35S1 | 10 | $56.00 | DN-R35HS1 | 10 | $93.00 | DN-R15S1 | 10 | $47.50 |
| | DN-R35S1-2 | 2 | $14.00 | DN-R35HS1-2 | 2 | $23.00 | DN-R15S1-2 | 2 | $14.00 |
| Description | DIN*nector* DIN rail, slotted, 35mm, 7.5mm height, 1m length, plated steel. Package of 10. | | | DIN*nector* DIN rail, slotted, 35mm, 15mm height, 1m length, plated steel. Package of 10. | | | DIN*nector* DIN rail, slotted, 15mm, 5.5mm height, 1m length, plated steel. Package of 2. | | |
| Plating | Zinc-plated and chromated | | | | | | | | |
| International Standards | EN 60715, RoHs | | | | | | | | |
| Suggested Mounting Screw Type | M6 | | | M6 | | | M4 | | |

## Aluminum DIN Rail Features



***35mm 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

***35mm 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)

**Aluminum DIN Rails Specifications**

| | Part Number | Qty | Price | Part Number | Qty | Price |
|---|---|---|---|---|---|---|
| DIN Rail | DN-R35SAL1 | 10 | $52.00 | DN-R35SAL2-2 | 2 | $34.50 |
| | DN-R35SAL1-2 | 2 | $11.00 | | | |
| Description | DIN*nector* DIN rail, slotted, 35mm, 10mm height, 1m length, aluminum. Package of 10. | | | DIN*nector* DIN rail, slotted, 2in raised 35mm, 7.5mm height, 1m length, aluminum. Package of 2. | | |
| Plating | Galvanic zinc plating, non-anodized finish | | | | | |
| International Standards | DIN 50960, RoHs | | | | | |
| Suggested Mounting Screw Type | #10-32 or M5 | | | | | |

# DINnectors® Accessories

## DIN rail support brackets

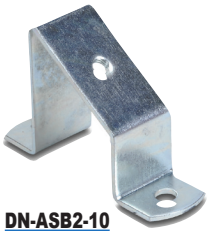
- Angled support brackets raise and tilt mounting rails 30 degrees from mounting surface for easier wiring
- DN-ASB1 plated steel support bracket
- DN-ASB2-10 cold-rolled steel treated with galvanic zinc plating and passivation

## 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*** | ***Qty*** | ***Price*** |
| ***DN-ASB1*** | 30˚angled DIN rail support bracket (M6-1.0 screws not included) | 50 | $107.00 |
| ***DN-ASB2-10*** | 30˚angled DIN rail support bracket (M6-1.0 screws included) | 10 | $18.00 |
| ***DN-SSB25-10*** | 1" (25 mm) DIN rail support bracket (M6-1.0 screws included) | 10 | $24.50 |
| ***DN-SSB50-10*** | 2" (50 mm) DIN rail support bracket (M6-1.0 screws included) | 10 | $25.50 |
| ***DN-SSB70-10*** | 2.75" (70 mm) DIN rail support bracket (M6-1.0 screws included) | 10 | $32.00 |
| ***DN-SSB90-10*** | 3.5" (90 mm) DIN rail support bracket (M6-1.0 screws included) | 10 | $34.50 |
| ***DN-CLIP-FM4*** | DIN rail mounting clip with M4 x 0.7 mm threaded hole (Screws not included) | 40 | $66.00 |
| ***DN-CLIP-FM4-5*** | | 5 | $9.50 |
| ***DN-CLIP-FM5*** | DIN rail mounting clip with M5 x 0.8 mm threaded hole (Screws not included) | 40 | $66.00 |
| ***DN-CLIP-FM5-5*** | | 5 | $9.50 |

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

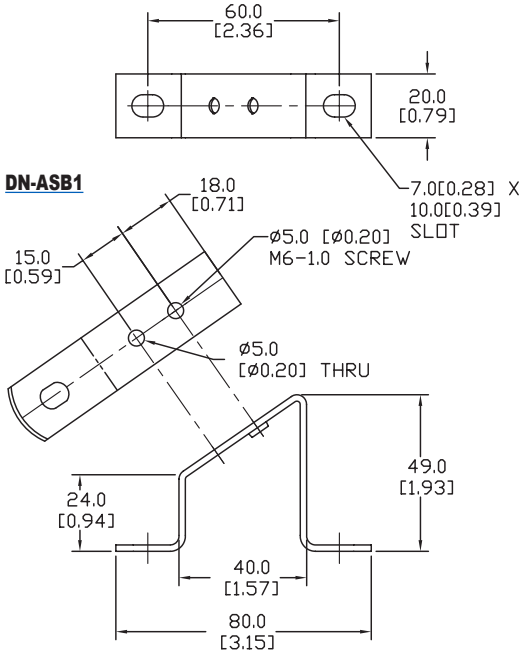
# DINnectors® Accessories

## DIN Rail Support Brackets and Mounting Clips

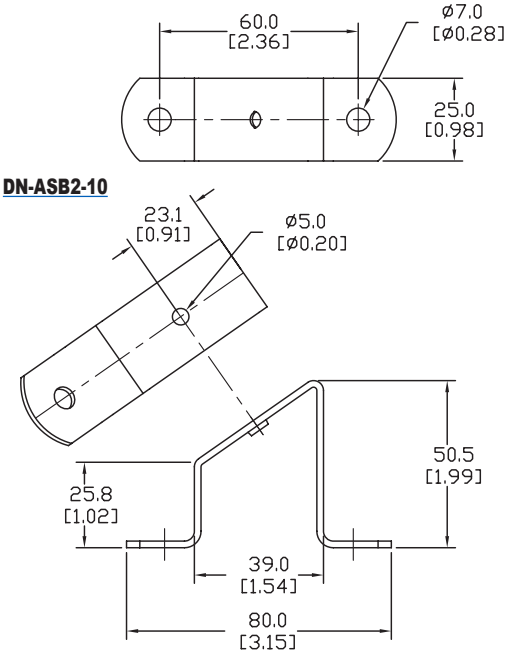
## Dimensions

***mm [inches]***

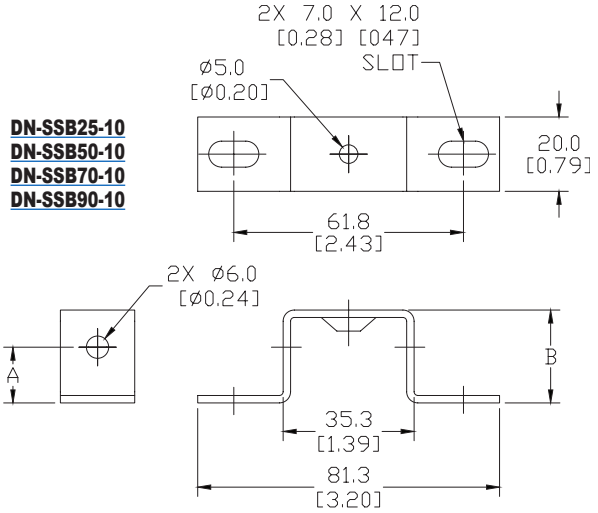
**DN-ASB1**




**DN-ASB2-10**



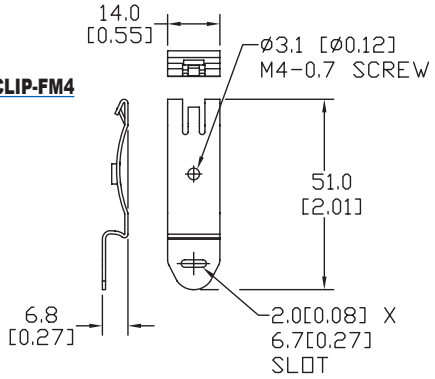

**DN-SSB25-10**
**DN-SSB50-10**
**DN-SSB70-10**
**DN-SSB90-10**



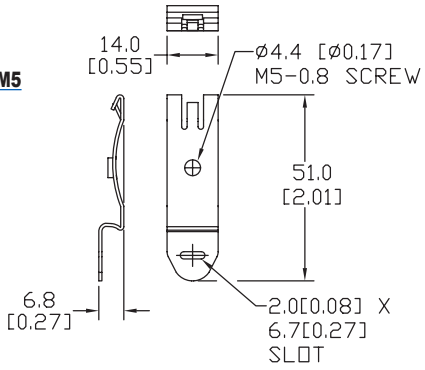

| DIN Rail Support Brackets | | |
|---|---|---|
| *Part Number* | *DIM A mm [inches]* | *DIM B mm [inches]* |
| ***DN-SSB25-10*** | 15.0 [0.59] | 25.0 [0.98] |
| ***DN-SSB50-10*** | 40.0 [1.58] | 50.0 [1.97] |
| ***DN-SSB70-10*** | 60.0 [2.36] | 70.0 [2.76] |
| ***DN-SSB90-10*** | 80.0 [3.15] | 90.0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

*See our website: www.AutomationDirect.com for complete engineering drawings*

**DN-CLIP-FM4**




**DN-CLIP-FM5**



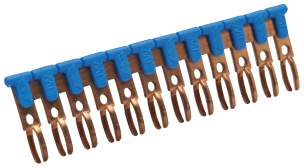
# DINnectors® Accessories

## Jumpers

Multi-pole jumper bars for DIN*nector* terminal blocks

**Multi-pole Jumper Bars**

| Part Number | Qty | Price | Part Number | Qty | Price | # of Poles | Rating (V) | Rating (A) | Insulation Color | For Use With Terminal Block Series |
|---|---|---|---|---|---|---|---|---|---|---|
| DN-2J2YMN | 25 | $13.00 | DN-2J2Y | 100 | $43.00 | 2 | 600 | 25 | Orange | DN-T12-A, DN-EMX, DN-Q12-A, DN-QD12-A, DN-QEMX, DN-QKBD12-A |
| DN-2J4YMN | 25 | $14.50 | DN-2J4Y | 100 | $46.00 | 2 | 600 | 25 | Yellow | DN-T10-A, DN-D10-A, DN-M10-A, DN-Q10-A |
| DN-2J6YMN | 25 | $15.00 | DN-2J6Y | 100 | $60.00 | 2 | 600 | 30 | Green | DN-Q8-A |
| – | – | – | DN-2J6 | 100 | $76.00 | 2 | 600 | 65 | – | DN-T6 |
| DN-2JL14-AMN | 25 | $15.00 | DN-2JL14-A | 100 | $67.00 | 2 | 300 | 20 | Red | DN-TL-A |
| DN-2JL14B-AMN | 25 | $15.00 | DN-2JL14B-A | 100 | $67.00 | 2 | 300 | 20 | Blue | DN-TL-A |
| DN-3J2YMN | 25 | $18.00 | DN-3J2Y | 100 | $62.00 | 3 | 600 | 25 | Orange | DN-T12-A, DN-EMX, DN-Q12-A, DN-QD12-A, DN-QEMX, DN-QKBD12-A |
| DN-3J4YMN | 25 | $22.00 | DN-3J4Y | 100 | $74.00 | 3 | 600 | 25 | Yellow | DN-T10-A, DN-D10-A, DN-M10-A, DN-Q10-A |
| DN-3J6YMN | 25 | $23.50 | DN-3J6Y | 100 | $84.00 | 3 | 600 | 30 | Green | DN-Q8-A |
| – | – | – | DN-3J6 | 100 | $132.00 | 3 | 600 | 65 | – | DN-T6 |
| DN-3JL14-AMN | 25 | $23.00 | DN-3JL14-A | 100 | $99.00 | 3 | 300 | 20 | Red | DN-TL-A |
| DN-3JL14B-AMN | 25 | $23.00 | DN-3JL14B-A | 100 | $99.00 | 3 | 300 | 20 | Blue | DN-TL-A |
| | | | DN-4J6 | 100 | $169.00 | 4 | 600 | 65 | – | DN-T6 |
| | | | DN-12J6Y | 10 | $35.50 | 12 | 600 | 30 | Green | DN-Q8-A |
| | | | DN-12JL14-A | 10 | $26.50 | 12 | 300 | 20 | Red | DN-TL-A |
| | | | DN-12JL14B-A | 10 | $26.50 | 12 | 300 | 20 | Blue | DN-TL-A |
| | | | DN-12JFE | 10 | $60.00 | 12 | 300 | 25 | Blue | DN-FE4 |
| | | | DN-24J2Y | 5 | $28.00 | 24 | 600 | 25 | Orange | DN-T12-A, DN-EMX, DN-Q12-A, DN-QD12-A, DN-QEMX, DN-QKBD12-A |
| | | | DN-24J4Y | 5 | $29.50 | 24 | 600 | 25 | Yellow | DN-T10-A, DN-D10-A, DN-M10-A, DN-Q10-A |
| | | | DN-24J8 | 5 | $41.00 | 24 | 600 | 50 | Green | DN-T8 |
| | | | DN-55J6 | 1 | $26.50 | 55 | 600 | 65 | – | DN-T6 |

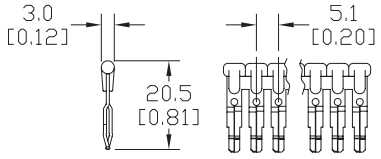


DN-12JL14B-A

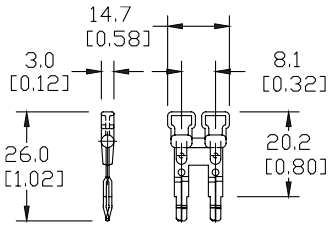
## Dimensions

***mm [inches]***

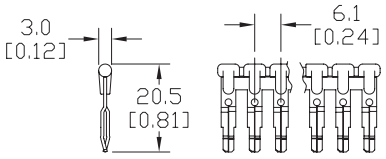
**DN-xJ2Y / DN-xJ2YMN**



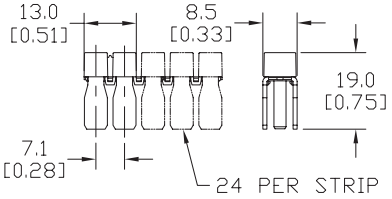

**DN-xJ6Y / DN-xJ6YMN**



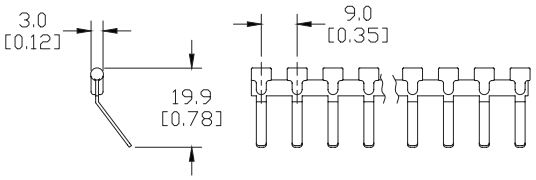

**DN-xJ4Y / DN-xJ4YMN**



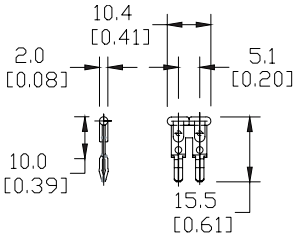

**DN-24J8**




**DN-12JFE**




**DN-xJL14 / DN-xJL14x-AMN**
**DN-xJ14x-A**

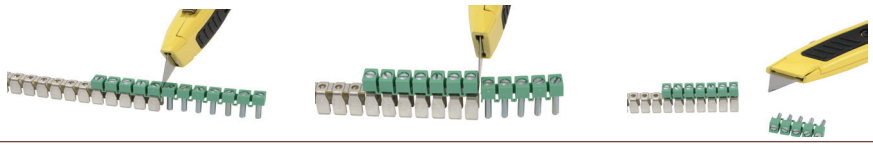


# DINnectors® Accessories

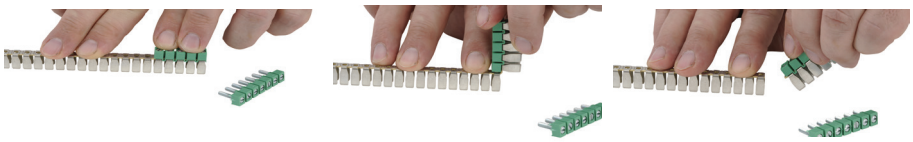
## Modifying a DN-24J8 jumper bar to the required number of poles

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).

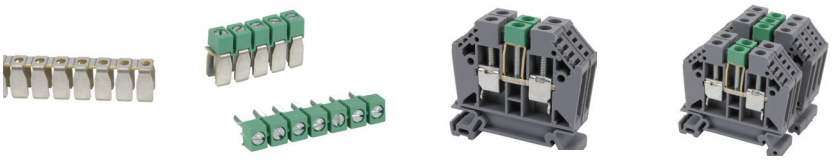


3) Hold the metal jumper bar and insulating jumper with two hands, placing fingers to the left and right of the pole you wish to cut, repeatedly flexing up and down (1 or 2 times should be sufficient) until the jumper bar and insulating jumper break in two.



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.



## Jumper Cutting Tools

Jumper cutting tools maintain protective covering.

### Jumper Cutting Tools

| Part Number | Description | Qty | Price |
|---|---|---|---|
| DN-J2CUT | DIN*nector* jumper cutting tool, for use with DN-2J2Y, DN-3J2Y and DN-24J2Y jumpers. | 1 | $79.00 |
| DN-J4CUT | DIN*nector* jumper cutting tool, for use with DN-2J4Y, DN-3J4Y and DN-24J4Y jumpers. | 1 | $79.00 |
| DN-J6CUT | DIN*nector* jumper cutting tool, for use with DN-12J6Y jumpers. | 1 | $118.00 |
| DN-JL14CUT | DIN*nector* jumper cutting tool, for use with DN-12JL14-A and DN-12JL14B-A jumpers. | 1 | $112.00 |
| DN-JXCUT | DIN*nector* jumper cutting tool, for use with DN-J2DIE, DN-J4DIE, DN-J6DIE, DN-JL14DIE and DN-JFEDIE dies. | 1 | $76.00 |
| DN-JFECUT | DIN*nector* jumper cutting tool, for use with DN-12JFE jumpers. | 1 | $92.00 |
| DN-JKIT | DIN*nector* cutting tool kit for DN series jumpers. Includes (1) DN-JXCUT cutting tool, (5) dies (DN-J2DIE, DN-J4DIE, DN-J6DIE, DN-JL14DIE, and DN-JFEDIE). | 1 | $313.00 |
| DN-TOOL2 | DIN*nector* tool kit, for use with DN series terminal blocks, includes (1) spring opening tool for DN-Q series screwless terminal blocks and (1) jumper removal tool for J2, J4, J6, and JL14 jumpers. | 1 | $11.50 |

### Replacement Dies

| Part Number | Description | Price |
|---|---|---|
| DN-J2DIE | DIN*nector* replacement die, package of 2. For use with jumper cutting tools DN-J2CUT or DN-JXCUT. | $118.00 |
| DN-J4DIE | DIN*nector* replacement die, package of 2. For use with jumper cutting tools DN-J4CUT or DN-JXCUT. | $118.00 |
| DN-JFEDIE | DIN*nector* replacement die, package of 2. For use with jumper cutting tools DN-JFECUT or DN-JXCUT. | $92.00 |
| DN-J6DIE | DIN*nector* replacement die, package of 2. For use with jumper cutting tools DN-J6CUT or DN-JXCUT. | $118.00 |
| DN-JL14DIE | DIN*nector* replacement die, package of 2. For use with jumper cutting tools DN-JL14CUT or DN-JXCUT. | $118.00 |

DN-J2CUT

DN-J4CUT

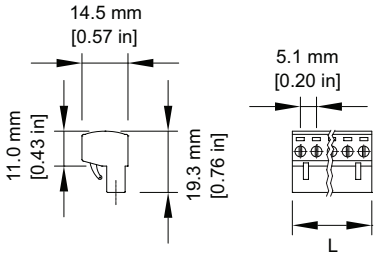
DN-JKIT

DN-TOOL2

# DINnectors® Accessories

## Terminal Plugs

**DN-xxPLUG / DN-xxPLUGMN**



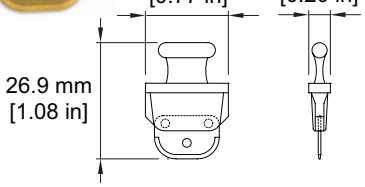

| Accessories – Terminal Plugs | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Plugs* Part Number* | *Qty* | *Price* | *Plugs* Part Number* | *Qty* | *Price* | *Number of Poles* | *Length mm [in]* |
| DN-2PLUG | 200 | $115.00 | DN-2PLUGMN | 10 | $7.25 | 2 | 10.2 [0.40] |
| DN-3PLUG | 200 | $177.00 | DN-3PLUGMN | 10 | $11.50 | 3 | 15.2 [0.60] |
| DN-4PLUG | 100 | $118.00 | DN-4PLUGMN | 10 | $14.50 | 4 | 20.3 [0.80] |
| DN-5PLUG | 100 | $136.00 | DN-5PLUGMN | 10 | $18.00 | 5 | 25.4 [1.00] |
| DN-6PLUG | 100 | $176.00 | DN-6PLUGMN | 10 | $18.00 | 6 | 30.5 [1.20] |
| DN-7PLUG | 50 | $92.00 | DN-7PLUGMN | 5 | $14.50 | 7 | 35.6 [1.40] |
| DN-8PLUG | 50 | $117.00 | DN-8PLUGMN | 5 | $14.50 | 8 | 40.6 [1.60] |
| DN-9PLUG | 50 | $128.00 | DN-9PLUGMN | 5 | $15.00 | 9 | 45.7 [1.80] |
| DN-10PLUG | 50 | $136.00 | DN-10PLUGMN | 5 | $17.00 | 10 | 50.8 [2.00] |
| DN-11PLUG | 50 | $161.00 | DN-11PLUGMN | 5 | $19.50 | 11 | 55.9 [2.20] |
| DN-12PLUG | 50 | $176.00 | DN-12PLUGMN | 5 | $20.00 | 12 | 61.0 [2.40] |
| *Terminal Plugs Ratings* | | | | | | | |
| *Voltage/Current* | 300V, 12A | | | | | | |
| *Wire Gauge* | 14–22 AWG, CU only | | | | | | |
| *Torque* | Tightening Torque: 0.51 N·m [4.5 lb·in] | | | | | | |
| *Usage Temperature* | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] | | | | | | |
| *Agency Approvals* | UL file #: E179129 | | | | | | |

**Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.**

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

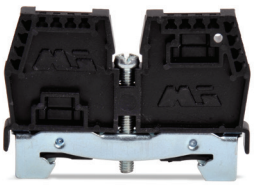
## Disconnect Blade

**DN-DIS-BLADE**
**DN-DIS-BMN**



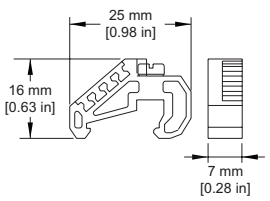

| Disconnect Blade | | | |
|---|---|---|---|
| *Part Number* | *Description* | *Qty* | *Price* |
| DN-DIS-BLADE | Terminal block disconnect blade for DN-FE2, DN-FE4, DN-DIS2 and DN-DIS4 | 50 | $36.00 |
| DN-DIS-BMN | | 10 | $9.75 |

## End Brackets

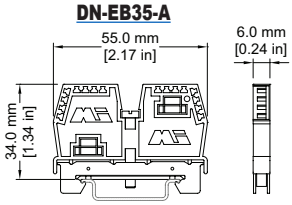


| End Brackets | | |
|---|---|---|
| *Part Number* | *Description* | *Price* |
| DN-EB15 | DIN*nector* snap-on end bracket, 7mm wide. Package of 100. For use with 15mm DIN rail. | $108.00 |
| DN-EB15MN | DIN*nector* snap-on end bracket, 7mm wide. Package of 20. For use with 15mm DIN rail. | $25.50 |
| DN-EB35 | DIN*nector* screw-down end bracket, 9mm wide. Package of 50. For use with 35mm DIN rail. | $67.00 |
| DN-EB35MN | DIN*nector* screw-down end bracket, 9mm wide. Package of 20. For use with 35mm DIN rail. | $31.50 |
| DN-EB35-A | DIN*nector* screw-down end bracket, 6mm wide. Package of 50. For use with 35mm DIN rail. | $47.50 |
| DN-EB35-A-10 | DIN*nector* screw-down end bracket, 6mm wide. Package of 10. For use with 35mm DIN rail. | $12.00 |
| DN-QEB35 | DIN*nector* snap-on end bracket, 6mm wide. Package of 50. For use with 35mm DIN rail. | $42.50 |
| DN-QEB35-10 | DIN*nector* snap-on end bracket, 6mm wide. Package of 10. For use with 35mm DIN rail. | $11.50 |

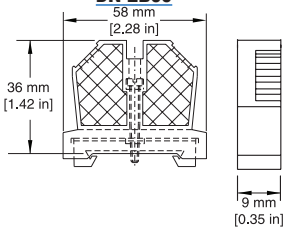
**DN-EB15**



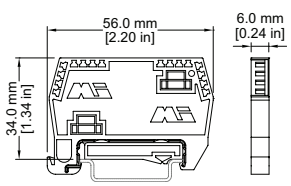

**DN-EB35-A**




**DN-EB35**




**DN-QEB35**




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

# 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.

| DINnectors End Covers | | |
|---|---|---|
| **Part Number** | **Description** | **Price** |
| DN-EC1210 | DINnector terminal block end cover, gray. Package of 100. For use with DN-T12 or DN-T10 series terminal blocks. | $43.00 |
| DN-EC1210MN | DINnector terminal block end cover, gray. Package of 25. For use with DN-T12 or DN-T10 series terminal blocks. | $14.50 |
| DN-EC86 | DINnector terminal block end cover, gray. Package of 100. For use with DN-T8 or DN-T6 series terminal blocks. | $47.00 |
| DN-EC86MN | DINnector terminal block end cover, gray. Package of 25. For use with DN-T8 or DN-T6 series terminal blocks. | $14.50 |
| DN-EC4 | DINnector terminal block end cover, gray. Package of 50. For use with DN-T4 series terminal blocks. | $29.50 |
| DN-EC4MN | DINnector terminal block end cover, gray. Package of 10. For use with DN-T4 series terminal blocks. | $5.75 |
| DN-EC1/0 | DINnector terminal block end cover, gray. Package of 50. For use with DN-T1/0 series terminal blocks. | $33.50 |
| DN-EC1/0MN | DINnector terminal block end cover, gray. Package of 10. For use with DN-T1/0 series terminal blocks. | $8.00 |
| DN-DEC10 | DINnector terminal block end cover, gray. Package of 50. For use with DN-D10-A series terminal blocks. | $31.50 |
| DN-DEC10MN | DINnector terminal block end cover, gray. Package of 10. For use with DN-D10-A series terminal blocks. | $6.00 |
| DN-EC14 | DINnector terminal block end cover, gray. Package of 25. For use with DN-TL14 series terminal blocks. | $18.00 |
| DN-EC14S | DINnector terminal block end cover, gray. Package of 25. For use with DN-TL14S series terminal blocks. | $15.00 |
| DN-ECM10 | DINnector terminal block end cover, gray. Package of 100. For use with DN-M10-A series terminal blocks. | $43.00 |
| DN-ECM10MN | DINnector terminal block end cover, gray. Package of 25. For use with DN-M10-A series terminal blocks. | $14.50 |
| DN-ECKBD | DINnector terminal block end cover, gray. Package of 100. For use with DN-KBD12 series terminal blocks. | $43.00 |
| DN-ECKBDMN | DINnector terminal block end cover, gray. Package of 10. For use with DN-KBD12 series terminal blocks. | $6.00 |
| DN-EMXM1EC1 | DINnector terminal block end cover, gray. Package of 25. For use with DN-EMXM1 series terminal block leftside. | $15.00 |
| DN-EMXM1EC2 | DINnector terminal block end cover, gray. Package of 25. For use with DN-EMXM1 series terminal block rightside. | $15.00 |
| DN-EMXDVEC1 | DINnector terminal block end cover, gray. Package of 25. For use with DN-EMXDV series terminal block leftside. | $15.00 |
| DN-EMXDVEC2 | DINnector terminal block end cover, gray. Package of 25. For use with DN-EMXDV series terminal block rightside. | $15.00 |
| DN-FESEP | DINnector terminal block end cover, gray. Package of 50. For use with DN-FE and DN-DIS series terminal blocks. | $26.50 |
| DN-FESEP-10 | DINnector terminal block end cover, gray. Package of 10. For use with DN-FE and DN-DIS series terminal blocks. | $5.25 |
| DN-QEC12 | DINnector terminal block end cover, gray. Package of 50. For use with DN-Q12-A or DN-QG12 series terminal blocks. | $21.50 |
| DN-QEC12MN | DINnector terminal block end cover, gray. Package of 10. For use with DN-Q12-A or DN-QG12 series terminal blocks. | $5.25 |
| DN-QEC10 | DINnector terminal block end cover, gray. Package of 50. For use with DN-Q10-A or DN-QG10 series terminal blocks. | $21.50 |
| DN-QEC10MN | DINnector terminal block end cover, gray. Package of 10. For use with DN-Q10-A or DN-QG10 series terminal blocks. | $5.25 |
| DN-QEC8 | DINnector terminal block end cover, gray. Package of 50. For use with DN-Q8-A or DN-QG8 series terminal blocks. | $25.50 |
| DN-QEC8MN | DINnector terminal block end cover, gray. Package of 10. For use with DN-Q8-A or DN-QG8 series terminal blocks. | $5.75 |
| DN-QEC12-1-2 | DINnector terminal block end cover, gray. Package of 25. For use with DN-Q12-1-2-A series terminal blocks. | $15.00 |
| DN-QEC12-2-2 | DINnector terminal block end cover, gray. Package of 25. For use with DN-Q12-2-2-A series terminal blocks. | $16.50 |
| DN-QDEC12 | DINnector terminal block end cover, gray. Package of 25. For use with DN-QD12 series terminal blocks. | $16.50 |

## Spacers

Spacers are used to put more space between adjacent blocks.

| DINnectors Spacers | | | |
|---|---|---|---|
| **Part Number** | **Description** | **Qty** | **Price** |
| DN-S1210 | Spacer for DN-T12-A and DN-T10-A series terminal blocks | 100 | $51.00 |
| DN-S1210MN | | 25 | $16.00 |
| DN-S86 | Spacer for DN-T8 and DN-T6 series terminal blocks | 100 | $61.00 |
| DN-S86MN | | 25 | $14.00 |
| DN-EMXM1SPA1 | Spacer for DN-EMXM1 and DN-QEMXM1 single-level plug-in terminal blocks | 25 | $13.00 |
| DN-EMXDVSPA1 | Spacer for DN-EMXDV and DN-QEMXDV double-level plug-in terminal blocks | 25 | $14.50 |
| DN-FESPA | Spacer for DN-FE sockets and DN-DIS disconnects | 50 | $26.50 |
| DN-FESPA-10 | | 10 | $5.25 |

## Top Covers

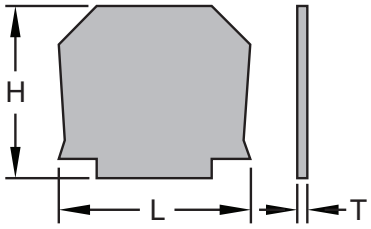
| DINnectors Top Covers | | | | |
|---|---|---|---|---|
| **Part Number** | **Description** | **For Use With** | **Qty** | **Price** |
| DN-C12 | Top cover, clear, printed electrical symbol. | DN-T12-A | 100 | $62.00 |
| DN-C12MN | | | 25 | $14.00 |
| DN-C10 | Top cover, clear, printed electrical symbol. | DN-T10-A | 100 | $62.00 |
| DN-C10MN | | | 25 | $14.00 |
| DN-C86 | Top cover, clear, printed electrical symbol. | DN-T8 DN-T6 | 100 | $62.00 |
| DN-C86MN | | | 25 | $14.00 |
| DN-DC10 | Top cover, clear, printed electrical symbol. | DN-D10 | 100 | $60.00 |
| DN-DC10MN | | | 25 | $14.00 |
| DN-MC10 | Top cover, clear, printed electrical symbol. | DN-M10 | 100 | $64.00 |
| DN-MC10MN | | | 25 | $14.00 |

# DINnectors® Accessories

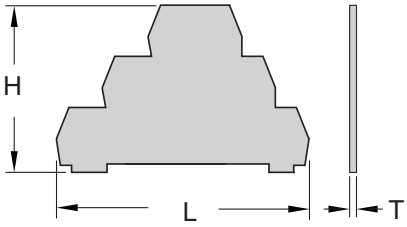
## DIN*nector* End Covers and Spacers Dimensions

| Part Number | | Length mm[in] | Height mm [in] | Thickness mm [in] |
|---|---|---|---|---|
| DN-EC1210 | DN-EC1210MN | 44 [1.73] | 35 [1.38] | 1.5 [0.06] |
| DN-S1210 | DN-S1210MN | 55 [2.17] | 44 [1.73] | |
| DN-EC86 | DN-EC86MN | 50 [1.97] | 43 [1.69] | |
| DN-S86 | DN-S86MN | 55 [2.17] | 49 [1.93] | |
| DN-EC4 | DN-EC4MN | 56 [2.21] | 48 [1.89] | |
| DN-EC1/0 | DN-EC1/0MN | 62 [2.44] | 60 [2.36] | |
| DN-DEC10 | DN-DEC10MN | 72 [2.80] | 49 [1.93] | |
| DN-EC14 | – | 78 [3.08] | 55 [2.17] | |
| DN-EC14S | – | 55 [2.17] | 50 [1.97] | |
| DN-ECM10 | DN-ECM10MN | 32 [1.26] | 27 [1.06] | |
| DN-ECKBD | DN-ECKBDMN | 52 [2.05] | 34.5 [1.36] | |
| DN-EMXM1EC1 | DN-EMXM1EC2 | as shown on next page | | |
| DN-EMXDVEC1 | DN-EMXDVEC2 | | | |
| DN-EMXDVSPA1 | DN-EMXM1SPA1 | | | |
| DN-FESPA | DN-FESPA-10 | | | |
| DN-FESEP | DN-FESEP-10 | | | |
| DN-QEC12 | DN-QEC12MN | 50 [1.97] | 23 [0.9] | 1.5 [0.06] |
| DN-QEC10 | DN-QEC10MN | 57.4 [2.26] | 33.6 [1.32] | |
| DN-QEC8 | DN-QEC8MN | 63 [2.48] | 38.5 [1.52] | |
| DN-QEC12-1-2 | – | 68.5 [2.70] | 28.5 [1.12] | |
| DN-QEC12-2-2 | – | 87.5 [3.44] | 28.5 [1.12] | |
| DN-QDEC12 | – | 98 [3.86] | 37 [1.46] | |

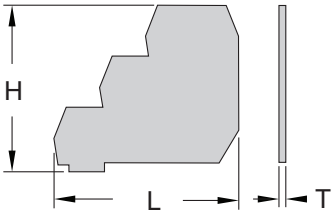
**DN-EC1210 (MN) DN-EC86 (MN), DN-EC4 (MN), DN-EC1/0 (MN), DN-ECKBD (MN), DN-S1210 (MN), DN-S86 (MN)**



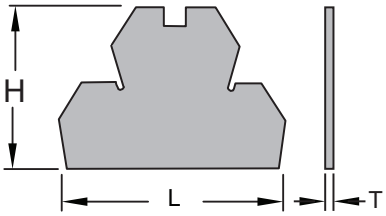

**DN-EC14**



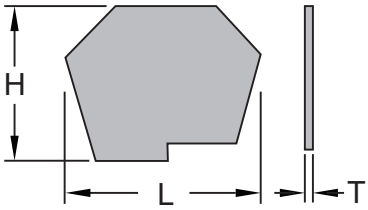

**DN-EC14S**



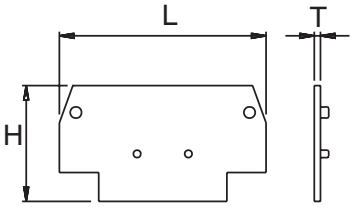

**DN-DEC10 / DN-DEC10MN**



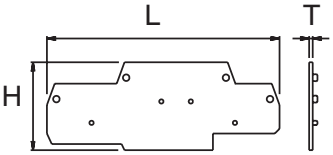

**DN-ECM10**
**DN-ECM10MN**




**DN-QEC12 (MN), DN-QEC10 (MN)**
**DN-QEC8 (MN),**
**DN-QEC12-1-2, DN-QEC12-2-2**

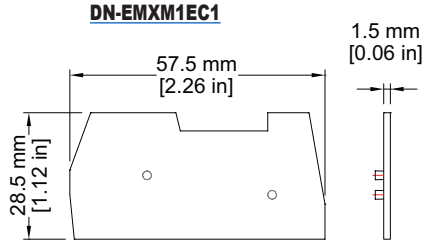



**DN-QDEC12**

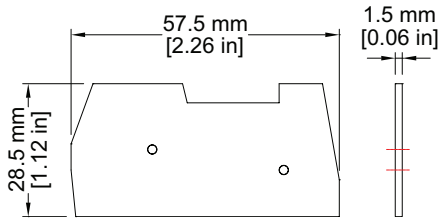


## Dimensional Drawings

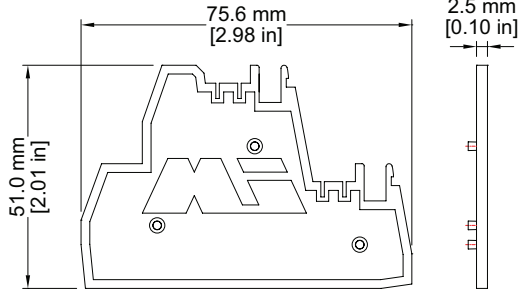
**DN-EMXM1EC1**



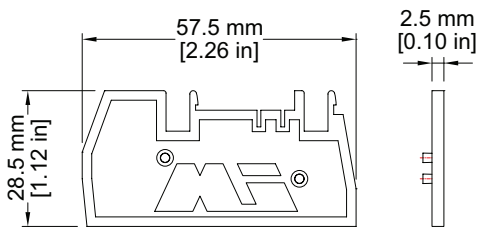

**DN-EMXM1EC2**



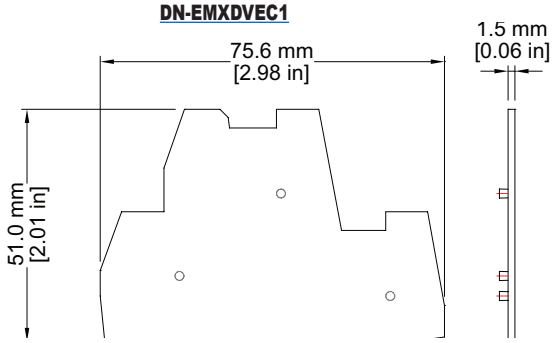

**DN-EMXDVSPA1**



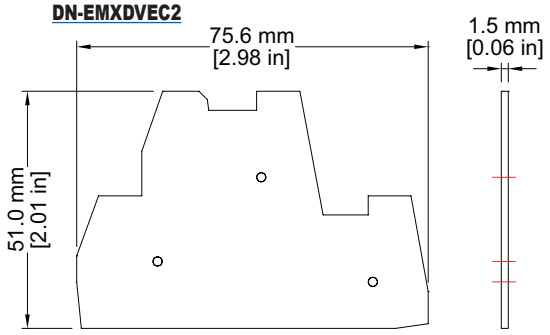

**DN-EMXM1SPA1**



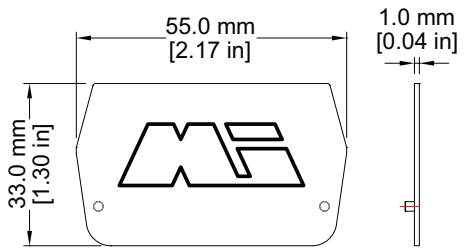

**DN-EMXDVEC1**



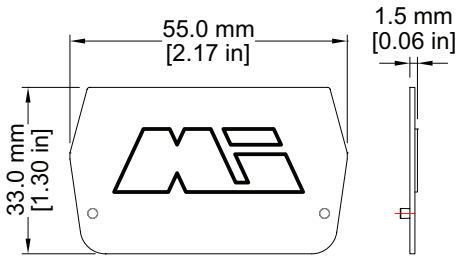

**DN-EMXDVEC2**




**DN-FESEP, DN-FESEP-10**




**DN-FESPA, DN-FESPA-10**



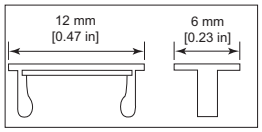
## Marking Tags Cross Reference Charts - Screwless

| DIN*nector* Marking Tags Cross Reference - Screwless | | | | |
|---|---|---|---|---|
| ***Block Type*** | ***DN-QL*** | ***DN-LA*** | ***DN-LT*** | ***DN-EMLBL*** |
| ***DN-Q12*** | X | – | – | – |
| ***DN-Q10*** | X | – | – | – |
| ***DN-Q8*** | X | – | – | – |
| ***DN-QD12*** | X | – | – | – |
| ***DN-Q12-1-2*** | X | – | – | – |
| ***DN-Q12-1-2L*** | X | – | – | – |
| ***DN-Q12-1-2D*** | X | – | – | – |
| ***DN-QKBD*** | X | – | – | – |
| ***DN-Q12-2-2*** | X | – | – | – |
| ***DN-Q12-2-2L*** | X | – | – | – |
| ***DN-Q12-2-2D*** | X | – | – | – |
| ***DN-QEMXM1*** | – | X | X | X |
| ***DN-QEMXDV*** | – | X | X | X |
| ***DN-QG12*** | X | – | – | – |
| ***DN-QG10*** | X | – | – | – |
| ***DN-QG8*** | X | – | – | – |
| ***DN-QG12-1-2*** | X | – | – | – |
| ***DN-QG12-2-2*** | X | – | – | – |

## Marking Tags

| Marking Tags DN-L Series | | | |
|---|---|---|---|
| **Part Number** | **Marking Sequence** | **Qty** | **Price** |
| DN-L50 | 1-50 | 500 | $56.00 |
| DN-L100 | 51-100 | 500 | $56.00 |
| DN-L150 | 101-150 | 500 | $56.00 |
| DN-L200 | 151-200 | 500 | $56.00 |
| DN-L250 | 201-250 | 500 | $56.00 |
| DN-L300 | 251-300 | 500 | $56.00 |
| DN-L350 | 301-350 | 500 | $56.00 |
| DN-L400 | 351-400 | 500 | $56.00 |
| DN-L450 | 401-450 | 500 | $56.00 |
| DN-LB | Blank | 500 | $38.00 |
| DN-LS | L1, L2, L3, L, N, GND, +, -, COM,COM* | 500 | $56.00 |

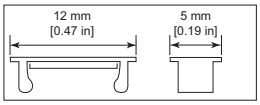
**Dimensions**




- The marking sequence of 50 tags (i.e. 101-150) is printed 10 times in each package of 500.
- The DN-L tags fit all DIN*nectors* 6mm wide and wider.
- There will be a gap between tags on blocks wider than 6mm.
- Material: Thermoplastic with heat embossed black print.

| Marking Tags DN-LA Series | | | |
|---|---|---|---|
| **Part Number** | **Marking Sequence** | **Qty** | **Price** |
| DN-LA100 | 1-100 | 500 | $56.00 |
| DN-LA200 | 101-200 | 500 | $56.00 |
| DN-LA300 | 201-300 | 500 | $56.00 |
| DN-LA400 | 301-400 | 500 | $56.00 |
| DN-LAB | Blank Tags | 500 | $56.00 |
| DN-LAS | L1, L2, L3, L, N, GND, +, -, COM,COM* | 500 | $56.00 |

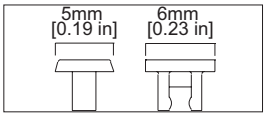
**Dimensions**




- The marking sequence of 100 tags (i.e. 1-100) is printed five times in each package of 500.
- The DN-LA tags fit all DIN*nectors* 5mm wide and wider. There will be a gap between tags on blocks wider than 5mm.
- Material: Thermoplastic with heat embossed black print.

| Marking Tags DN-LAT Series | | | |
|---|---|---|---|
| **Part Number** | **Marking Sequence** | **Qty** | **Price** |
| DN-LAT100-A | 1-100 | 500 | $49.00 |
| DN-LAT200-A | 101-200 | 500 | $49.00 |
| DN-LAT300-A | 201-300 | 500 | $49.00 |
| DN-LAT400-A | 301-400 | 500 | $49.00 |
| DN-LAT500-A | 401-500 | 500 | $49.00 |
| DN-LAT600-A | 501-600 | 500 | $49.00 |
| DN-LATB-A | Blank Tags | 500 | $35.50 |
| DN-LATS-A | L1, L2, L3, L, N, +,-, COM,COM* | 500 | $49.00 |

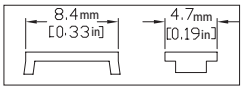
**Dimensions**




- The marking sequence of 500 tags (i.e. 1-100) is printed five times in each package of 500.
- Material: Thermoplastic with heat embossed black print.

| Marking Tags DN-QL Series | | | |
|---|---|---|---|
| **Part Number** | **Marking Sequence** | **Qty** | **Price** |
| DN-QL100 | 1-100 | 500 | $42.50 |
| DN-QL200 | 101-200 | 500 | $42.50 |
| DN-QL300 | 201-300 | 500 | $42.50 |
| DN-QL400 | 301.400 | 500 | $42.50 |
| DN-QL500 | 401-500 | 500 | $42.50 |
| DN-QLB | Blank Tags | 500 | $36.00 |
| DN-QLS | L1, L2, L3, L, N, +,-, COM,COM* | 500 | $49.00 |

**Dimensions**

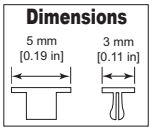



- The marking sequence of 500 (i.e. 1-100) is printed five times in each package of 500.
- Material: Thermoplastic with heat embossed black print.

# DINnectors® Accessories

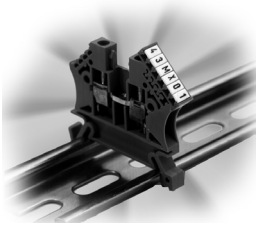
## Marking Tags continued

| Marking Tags DN-LT Series | | | |
|---|---|---|---|
| **Part Number** | **Marking Sequence** | **Qty** | **Price** |
| DN-LT15 | 1-5 | 100 | $10.00 |
| DN-LT60 | 6-0 | 100 | $10.00 |
| DN-LT1 | 1 | 100 | $10.00 |
| DN-LT2 | 2 | 100 | $10.00 |
| DN-LT3 | 3 | 100 | $10.00 |
| DN-LT4 | 4 | 100 | $10.00 |
| DN-LT5 | 5 | 100 | $10.00 |
| DN-LT6 | 6 | 100 | $10.00 |
| DN-LT7 | 7 | 100 | $10.00 |
| DN-LT8 | 8 | 100 | $10.00 |
| DN-LT9 | 9 | 100 | $10.00 |
| DN-LT0 | 0 | 100 | $10.00 |
| DN-LTBLNK | Unprinted | 100 | $10.00 |
| DN-LTA | A | 100 | $10.00 |
| DN-LTB | B | 100 | $10.00 |
| DN-LTC | C | 100 | $10.00 |
| DN-LTD | D | 100 | $10.00 |
| DN-LTE | E | 100 | $10.00 |
| DN-LTF | F | 100 | $10.00 |
| DN-LTG | G | 100 | $10.00 |
| DN-LTH | H | 100 | $10.00 |
| DN-LTI | I | 100 | $10.00 |
| DN-LTJ | J | 100 | $10.00 |
| DN-LTK | K | 100 | $10.00 |
| DN-LTL | L | 100 | $10.00 |
| DN-LTM | M | 100 | $10.00 |
| DN-LTN | N | 100 | $10.00 |
| – | – | – | – |
| DN-LTP | P | 100 | $10.00 |
| DN-LTQ | Q | 100 | $10.00 |
| DN-LTR | R | 100 | $10.00 |
| DN-LTS | S | 100 | $10.00 |
| DN-LTT | T | 100 | $10.00 |
| DN-LTU | U | 100 | $10.00 |
| DN-LTV | V | 100 | $10.00 |
| DN-LTW | W | 100 | $10.00 |
| DN-LTX | X | 100 | $10.00 |
| DN-LTY | Y | 100 | $10.00 |
| DN-LTZ | Z | 100 | $10.00 |
| DN-LTGND | ⏚ | 100 | $10.00 |
| DN-LTPOS | + | 100 | $10.00 |
| DN-LTNEG | - | 100 | $10.00 |
| DN-LTAC | ~ | 100 | $10.00 |
| DN-LTDC | = | 100 | $10.00 |

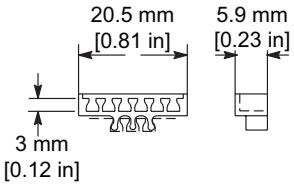



- These marking tags allow the flexibility of creating custom marking sequences on site.
- The DN-M series supports a maximum of three digits (tags), while other DIN*nectors* support up to four digits (tags).
- Material: Thermoplastic with heat embossed black print.

**DN-MTA marking tag adapter**



**DN-MTA dimensions**




| Part Number | Description | Qty | Price |
|---|---|---|---|
| DN-MTA | Marking tag adapter holds up to six DN-LT tags | 50 | $14.50 |

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

# DINnectors® Accessories

## Terminal Marking Accessories

DN-EMLBL1

DN-EMLBL2

DN-EMLBL3

| Part Number | Description | For Use With | Qty | Price |
|---|---|---|---|---|
| DN-EMLBL1 | Blank labels | DN-EMPEG1 pin protectors for DN-xEMXxx plug-in terminal blocks | 100 | $9.25 |
| DN-EMLBL2 | Labels printed 1 – 12 | | 100 | $13.00 |
| DN-EMLBL3 | Labels printed 13 – 24 | | 100 | $13.00 |

## 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 Number | Description | Qty | Price |
|---|---|---|---|
| DN-MP | Staedtler-Mars marking pen, for use with blank marking tags. Permanent Ink, fine tip. | 1 | $4.50 |

Marking pen

## Wire Marking Accessories

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

| Part Number | Description | For Use With | Qty | Price |
|---|---|---|---|---|
| DN-WMTAG1 | Wire tag – blank | all DN-WM-x wire tag holders | 525 | $60.00 |
| DN-WM-1 | Wire tag holder, clear, 12mm length, 0.051–0.118 in diameter; for 22–16 AWG wire | DN-WMTAG1 | 200 | $12.50 |
| DN-WM-2 | Wire tag holder, clear, 12mm length, 0.098–0.196 in diameter; for 16-11 AWG wire | | 200 | $12.50 |
| DN-WM-3 | Wire tag holder, clear, 12mm length, 0.157–0.393 in diameter; for 13–5 AWG wire | | 100 | $8.25 |
| DN-WM-4 | Wire tag holder, clear, 12mm length, 0.314–0.629 in diameter; for 5AWG wire | | 100 | $7.75 |