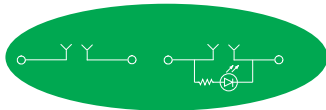


# Supplementary Protector / Disconnect Terminal Block Sockets



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 / EURO F4



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

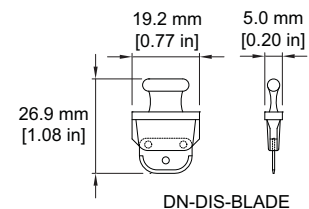


DN-DIS-BLADE

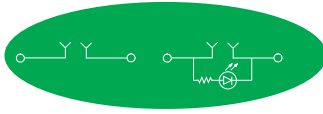
Gray Term Block	Part Number	Trip Indicator	Pcs /Pkg	Price /Pkg	Part Number	Trip Indicator	Pcs /Pkg	Price /Pkg
Socket with Disconnect	DN-DIS2	—	50	<--->	DN-DIS4	—	50	<--->
	DN-DIS2L12	12 VAC/DC LED	50	<--->	DN-DIS4L12	12 VAC/DC LED	50	<--->
	DN-DIS2L24	24 VAC/DC LED	50	<--->	DN-DIS4L24	24 VAC/DC LED	50	<--->
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)							
* 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



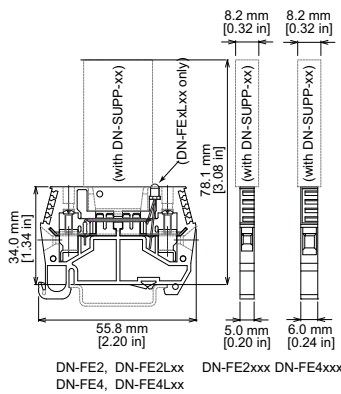
DN-FE series terminal block sockets accept separately available circuit disconnects or supplementary protectors. The DN-FE blocks are available either with or without a trip-indicating LED. The LED blocks are polarity-sensitive, with the LED side negative.



DN-FEx Series: EURO F2 / 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	<--->

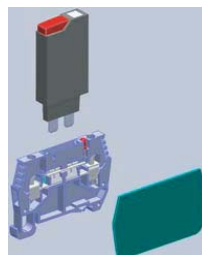
Terminal Block Socket Specifications						
UL Approval *	300V	10A with SUPP 20A with disconnect	24-12 AWG *	300V	10A with SUPP 25A with disconnect	24-10 AWG *
Agency File #	UL E179129					
Wire Strip Length	0.20 in (5 mm)			0.24 in (6 mm)		
Tightening Torque	4.5 lb-in (0.5 N-m)			7 lb-in (0.8 N-m)		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



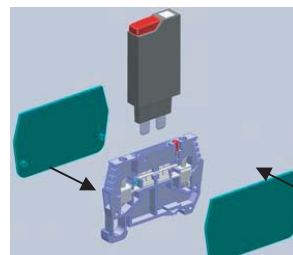
DN-FEx with DN-SUPP-x Supplementary Protector

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	<--->
	DN-QEB35-10						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.



When aligned alone, use DN-FESEP



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

# Supplementary Protectors for Terminal Block Sockets



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Appendix

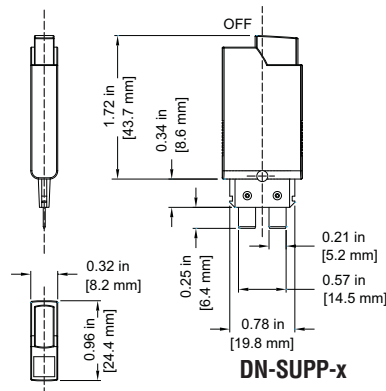
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Accessories – Supplementary Protectors							
Part Number	Reference	Rated Current	Internal Resistance	Type	Fits Socket	Pcs /Pkg	Price /Pkg
DN-SUPP-P25	435T0025	0.25A	14Ω	UL1077 Single Pole Push On Push Off Push to Reset	Terminal Block Socket Types: 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	<--->		



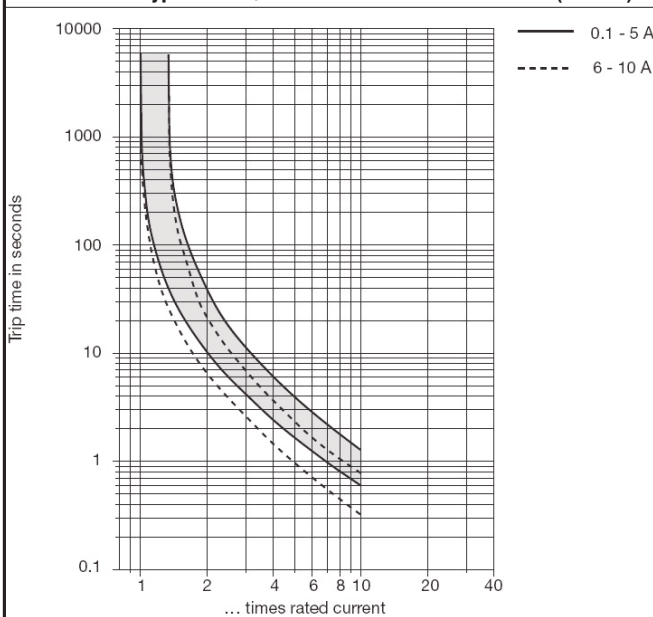
DN-SUPP-x Supplementary Protector (plugs into DN-FE EURO F series socket)



## Supplementary Protector Specifications – DN-SUPP-x Series

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

## 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
<b>Temp Derating Factor</b>		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.

# Marking Accessories



DN-LB (blank) shown above



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

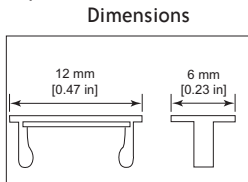


DN-LTA marker shown top; DN-LT60 marker shown middle; DN-LTGND shown bottom

## 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** 5mm wide and wider but will leave a gap between tags on blocks wider than 5mm.

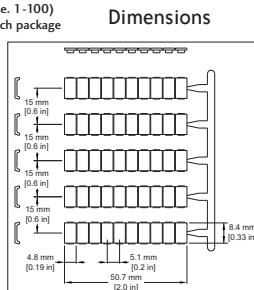


Marking Sequence	Part#	Pcs/Pkg	Price
1-50	DN-L50	500	<--->
51-100	DN-L100	500	<--->
101-150	DN-L150	500	<--->
151-200	DN-L200	500	<--->
201-250	DN-L250	500	<--->
251-300	DN-L300	500	<--->
301-350	DN-L350	500	<--->
351-400	DN-L400	500	<--->
401-450	DN-L450	500	<--->
Blank	DN-LB	500	<--->
L1, L2, L3, L,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

## DN-QL

**Fits terminal block types:** Screwless  
**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.

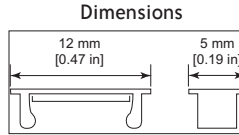


Marking Sequence	Part #	Pcs/Pkg	Price
1-100	DN-QL100	500	<--->
101-200	DN-QL200	500	<--->
201-300	DN-QL300	500	<--->
301-400	DN-QL400	500	<--->
401-500	DN-QL500	500	<--->
Blank Tags	DN-QLB	500	<--->

## 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-LA 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.

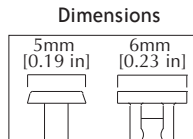


Marking Sequence	Part#	Pcs/Pkg	Price
1-100	DN-LA100	500	<--->
101-200	DN-LA200	500	<--->
201-300	DN-LA300	500	<--->
301-400	DN-LA400	500	<--->
Blank Tags	DN-LAB	500	<--->
L1, L2, L3, L, N, GND, +, -, COM, COM*	DN-LAS	500	<--->

## DN-LAT

**Fits terminal block types:** Triple level  
**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.

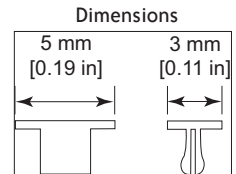


Marking Sequence	Part#	Pcs/Pkg	Price
1-100	DN-LAT100	500	<--->
101-200	DN-LAT200	500	<--->
201-300	DN-LAT300	500	<--->
301-400	DN-LAT400	500	<--->
Blank Tags	DN-LATB	500	<--->
L1, L2, L3, L, N, GND, +, -, COM, COM*	DN-LATS	500	<--->

## DN-LT

**Fits terminal block types:** All except **Screwless** (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
1-5	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-LTBINK	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	<--->

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# DINnectors Accessories – Marking

## Terminal Marking Accessories



DN-EMLBL1

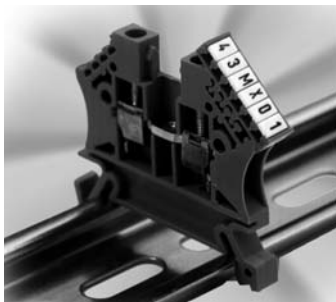


DN-EMLBL2



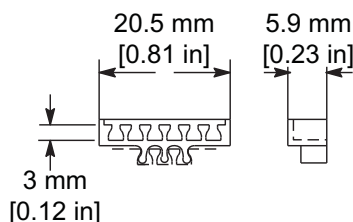
DN-EMLBL3

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



DN-MTA marking tag adapter

### DN-MTA dimensions



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