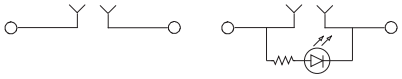
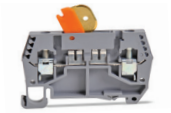
DINnectors®

Supplementary Protector / Disconnect Terminal Block Sockets

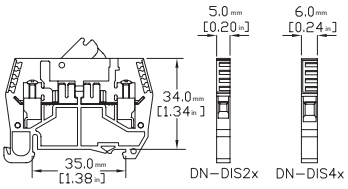
DN-DIS series Disconnect Terminal Blocks offer the flexibility of opening a circuit without removing any wiring. Available with or without LED indication in 12VDC and 24VDC, they can also be used as a socket for the DN-SUPP series Supplementary Protectors by simply removing the Disconnect Blade.



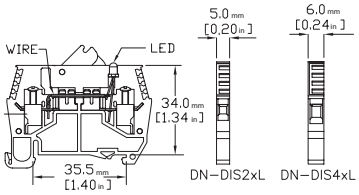
WARNING: DO NOT DISCONNECT UNDER LOAD



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



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



Ordering Information

	Part Number	Trip Indicator	Qty	Price	Part Number	Trip Indicator	Qty	Price
Gray Socket with Disconnect	DN-DIS2	–	50	$141.00	DN-DIS4	–	50	$141.00
	DN-DIS2MN	–	10	$34.50	DN-DIS4MN	–	10	$34.50
	DN-DIS2L12	12 VAC/DC LED	50	$179.00	DN-DIS4L12	12 VAC/DC LED	50	$179.00
	DN-DIS2L12MN	12 VAC/DC LED	10	$40.50	DN-DIS4L12MN	12 VAC/DC LED	10	$40.50
	DN-DIS2L24	24 VAC/DC LED	50	$179.00	DN-DIS4L24	24 VAC/DC LED	50	$179.00
	DN-DIS2L24MN	24 VAC/DC LED	10	$40.50	DN-DIS4L24MN	24 VAC/DC LED	10	$40.50

Technical Specifications

Stripping Length	5mm [0.20 in]			6mm [0.24 in]		
Tightening Torque	0.5 N·m [4.4 lb·in]			0.8 N·m [7 lb·in]		
UL Approval*	300V	10A with SUPP 20A with disconnect	24-12 AWG*	300V	10A with SUPP 25A with disconnect	24-10 AWG*
Operating Temperature	Ambient air temperature: -20 to 85°C [-4 to 185°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 / 60947-7-3)					
Agency File #	UL E179129					

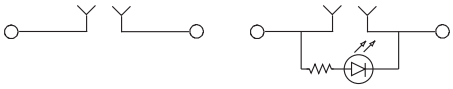
Accessories

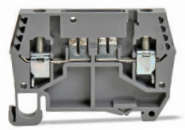
End Cover/Spacer**		DN-FESPA		50	$29.00	DN-FESPA	50	$29.00
		DN-FESPA-10		10	$6.00	DN-FESPA-10	10	$6.00
Separator		DN-FESEP		50	$29.00	DN-FESEP	50	$29.00
		DN-FESEP-10		10	$6.00	DN-FESEP-10	10	$6.00
35mm DIN Rail	7.5 mm high	DN-R35S1		10	$39.00	DN-R35S1	10	$39.00
		DN-R35S1-2		2	$11.00	DN-R35S1-2	2	$11.00
	15mm high	DN-R35HS1		10	$68.00	DN-R35HS1	10	$68.00
		DN-R35HS1-2		2	$16.50	DN-R35HS1-2	2	$16.50
End Brackets		DN-EB35		50	$74.00	DN-EB35	50	$74.00
		DN-EB35MN		20	$34.50	DN-EB35MN	20	$34.50
		DN-EB35-A		50	$52.50	DN-EB35-A	50	$52.50
		DN-EB35-A-10		10	$13.00	DN-EB35-A-10	10	$13.00
		DN-QEB35		50	$47.00	DN-QEB35	50	$47.00
		DN-QEB35-10		10	$12.50	DN-QEB35-10	10	$12.50
Angled Support Bracket		DN-ASB1		50	$107.00	DN-ASB1	50	$107.00
Disconnect Blade		DN-DIS-BLADE		50	$39.50	DN-DIS-BLADE	50	$39.50
		DN-DIS-BMN		10	$10.50	DN-DIS-BMN	10	$10.50
Marking Tags		DN-LA or DN-LT series		500/100	various	DN-L or DN-LT series	500/100	various

***For copper wire only**
****Use one End Cover / Spacer per DN-FEx Terminal Block Socket when using DN-SUPP-x supplementary protector**
Note: For more information on accessories, see the DIN*nector*s Accessories section of this chapter.

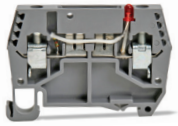
DINnectors® Terminal Block Sockets

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 and they are 35mm DIN rail mountable. The LED blocks are polarity-sensitive, with the LED side negative.





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



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

Ordering Information

	Part Number	Trip Indicator	Qty	Price	Part Number	Trip Indicator	Qty	Price
Socket Only	DN-FE2	–	50	$123.00	DN-FE4	–	50	$123.00
	DN-FE2-5	–	5	$14.00	DN-FE4-5	–	5	$14.00
	DN-FE2L12	12 VAC/DC LED	50	$165.00	DN-FE4L12	12 VAC/DC LED	50	$165.00
	DN-FE2L12-5	12 VAC/DC LED	5	$16.50	DN-FE4L12-5	12 VAC/DC LED	5	$16.50
	DN-FE2L24	24 VAC/DC LED	50	$165.00	DN-FE4L24	24 VAC/DC LED	50	$165.00
	DN-FE2L24-5	24 VAC/DC LED	5	$16.50	DN-FE4L24-5	24 VAC/DC LED	5	$16.50

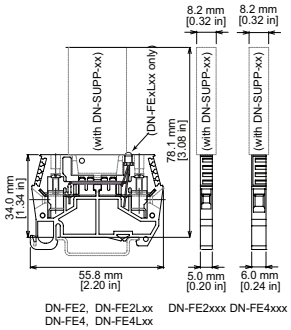
Technical Specifications

Stripping Length	5mm [0.20 in]			6mm [0.24 in]		
Tightening Torque	0.5 N·m [4.4 lb·in]			0.8 N·m [7 lb·in]		
UL Approval*	300V	10A with SUPP/20A with disconnect	24-12 AWG*	300V	10A with SUPP/25A with disconnect	24-10 AWG*
Operating Temperature	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	100kA					
CE Conformity	CE (EN 60947-1 / EN 60947-7-3)					
Agency File #	UL E179129					

Accessories

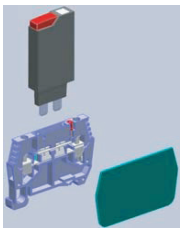
End Cover/ Spacer**		DN-FESPA	50	$29.00	DN-FESPA	50	$29.00
		DN-FESPA-10	10	$6.00	DN-FESPA-10	10	$6.00
Separator		DN-FESEP	50	$29.00	DN-FESEP	50	$29.00
		DN-FESEP-10	10	$6.00	DN-FESEP-10	10	$6.00
Jumper****	12-pole	DN-12JFE	10	$66.00	DN-12JFE	10	$66.00
Jumper Cutting Tool		DN-JFECUT	1	$101.00	DN-JFECUT	1	$101.00
35mm DIN Rail	7.5 mm high	DN-R35S1	10	$39.00	DN-R35S1	10	$39.00
		DN-R35S1-2	2	$11.00	DN-R35S1-2	2	$11.00
	15mm high	DN-R35HS1	10	$68.00	DN-R35HS1	10	$68.00
		DN-R35HS1-2	2	$16.50	DN-R35HS1-2	2	$16.50
End Brackets		DN-EB35	50	$74.00	DN-EB35	50	$74.00
		DN-EB35MN	20	$34.50	DN-EB35MN	20	$34.50
		DN-EB35-A	50	$52.50	DN-EB35-A	50	$52.50
		DN-EB35-A-10	10	$13.00	DN-EB35-A-10	10	$13.00
		DN-QEB35	50	$47.00	DN-QEB35	50	$47.00
		DN-QEB35-10	10	$12.50	DN-QEB35-10	10	$12.50
Angled Support Bracket		DN-ASB1	50	$107.00	DN-ASB1	50	$107.00
Disconnect Blade		DN-DIS-BLADE	50	$39.50	DN-DIS-BLADE	50	$39.50
		DN-DIS-BMN	10	$10.50	DN-DIS-BMN	10	$10.50
Supplementary Protector		DN-SUPP-x***	see next page		DN-SUPP-x***	see next page	
Marking Tags		DN-LA or DN-LT series	500/100	various	DN-L or DN-LT series	500/100	various

*For copper wire only
**When aligned along, use one End Covers/Spacers per DN-FEx. When aligned in a row, use two End Covers/Spacers per DN-FEx
***Trip ratings available from 0.25 A to 10A
****For jumper installation, use two End Covers/Spacers per DN-FEx
Note: For more information on accessories, see the DIN*nector*s Accessories section of this chapter.

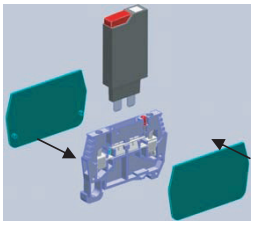


DN-DIS-xxx dimensions are the same as DN-FExxx dimensions.

DN-FEx with DN-SUPP-x Supplementary Protector



When aligned alone, use **DN-FESEP**



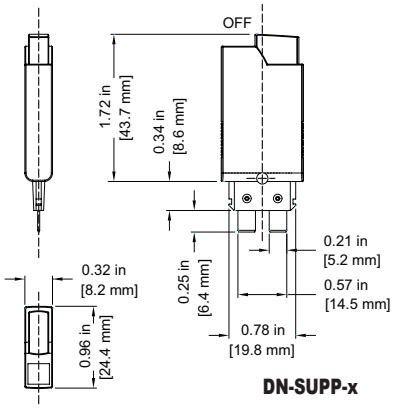
When aligned in a row, use
2pcs **DN-FESPA** for **DN-FE2**
2pcs **DN-FESEP** for **DN-FE4**

DINnectors® Supplementary Protectors for Terminal Block Sockets

Supplementary Protectors

Part Number	Reference	Rated Current	Internal Resistance	Type	Fits Socket	Qty	Price
DN-SUPP-P25	435T0025	0.25 A	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	$365.00
DN-SUPP-P25-1						1	$19.50
DN-SUPP-P5	435T0050	0.5 A	3.4 Ω			20	$365.00
DN-SUPP-P5-1						1	$19.50
DN-SUPP-1	435T0100	1A	0.9 Ω			20	$365.00
DN-SUPP-1-1						1	$19.50
DN-SUPP-2	435T0200	2A	0.25 Ω			20	$365.00
DN-SUPP-2-1						1	$19.50
DN-SUPP-3	435T0300	3A	0.11 Ω			20	$365.00
DN-SUPP-3-1						1	$19.50
DN-SUPP-4	435T0400	4A	0.07 Ω			20	$365.00
DN-SUPP-4-1						1	$19.50
DN-SUPP-6	435T0600	6A	≤0.05 Ω			20	$365.00
DN-SUPP-6-1						1	$19.50
DN-SUPP-8	435T0800	8A				20	$365.00
DN-SUPP-8-1						1	$19.50
DN-SUPP-10	435T1000	10A				20	$365.00
DN-SUPP-10-1						1	$19.50

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

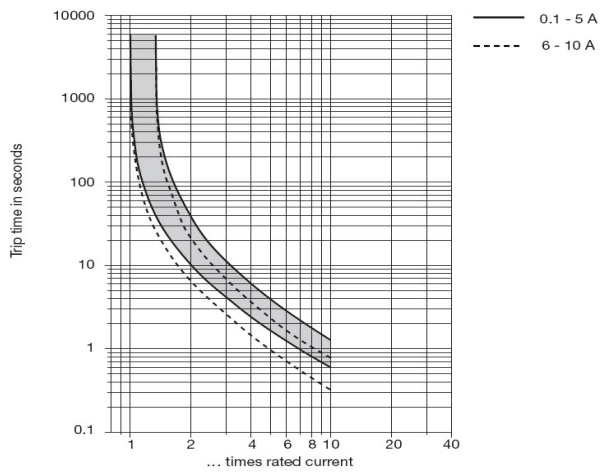


DN-SUPP-x

Supplementary Protector Specifications DN-SUPP-x Series

Voltage Rating (UL – U.S. & Canada)	250VAC / 72VDC
Voltage Rating (VDE)	250VAC / 65VDC
Typical Life Span	6,000 operations @ 1 x IN (low inductance) 3,000 operations @ 1 x IN (inductive) 500 operations @ 2 x IN (inductive)
Insulation Coordination (IEC 60664 & 60664A)	Rated impulse withstand voltage 2.5 kV; reinforced insulation in operating area; pollution degree 2
Dielectric Strength (IEC 60664 & 60664A)	Operating area: 3,000VAC Installation area: 1,500VAC
Insulation Resistance	>100MΩ @ 500VDC
Interrupting Capacity (UL 1077), SCCR	2,000A @ 250VAC; 200A @ 65VDC, SCCR = 2kA with series overcurrent protection
Interrupting Capacity ICN	0.1 to 5A: 6 x IN 6 to 10A: 8 x IN
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/axisand 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
Usage Temperature	-4 to 140°F (-20 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.

Marking Tags Cross Reference Charts - Screw-type

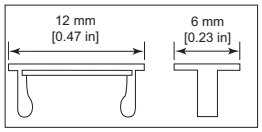
DIN*nector* Marking Tags Cross Reference - Screw-type					
Block Type	***DN-L***	***DN-LA***	***DN-LT***	***DN-LAT***	***DN-EMLBL***
DN-T12	–	X	X	–	–
DN-T10	X	–	X	–	–
DN-T8	X	–	X	–	–
DN-T6	X	–	X	–	–
DN-T4	X	–	X	–	–
DN-T1/0	X	–	X	–	–
DN-T3/0	X	–	X	–	–
DN-D10	X	–	X	–	–
DN-D10X	X	–	X	–	–
DN-D10LED	X	–	X	–	–
DN-D10DR	X	–	X	–	–
DN-TL14	–	–	–	X	–
DN-THERM	X	–	X	–	–
DN-EMXM1	–	X	X	–	X
DN-EMXDV	–	X	X	–	X
DN-M10	–	–	X	–	–
DN-MG10	–	–	X	–	–
DN-G10	X	–	X	–	–
DN-G8	X	–	X	–	–
DN-G6	X	–	X	–	–
DN-G4	X	–	X	–	–
DN-G1/0	X	–	X	–	–
DN-F6	X	–	X	–	–
DN-F10	X	–	X	–	–
DN-DIS2	–	X	X	–	–
DN-DIS4	X	–	X	–	–
DN-FE2	–	X	X	–	–
DN-FE4	X	–	X	–	–
DN-DIS10	X	–	X	–	–
DN-KBD12	–	X	X	–	–

Continued on next page

Marking Tags

Marking Tags DN-L Series			
Part Number	**Marking Sequence**	**Qty**	**Price**
DN-L50	1-50	500	$61.50
DN-L100	51-100	500	$61.50
DN-L150	101-150	500	$61.50
DN-L200	151-200	500	$61.50
DN-L250	201-250	500	$61.50
DN-L300	251-300	500	$61.50
DN-L350	301-350	500	$61.50
DN-L400	351-400	500	$61.50
DN-L450	401-450	500	$61.50
DN-LB	Blank	500	$42.00
DN-LS	L1, L2, L3, L, N, GND, +, -, COM,COM*	500	$61.50

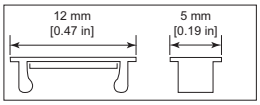
Dimensions



- 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	$61.50
DN-LA200	101-200	500	$61.50
DN-LA300	201-300	500	$61.50
DN-LA400	301-400	500	$61.50
DN-LAB	Blank Tags	500	$61.50
DN-LAS	L1, L2, L3, L, N, GND, +, -, COM,COM*	500	$61.50

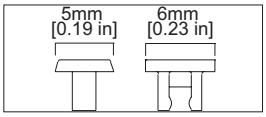
Dimensions



- 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	$54.00
DN-LAT200-A	101-200	500	$54.00
DN-LAT300-A	201-300	500	$54.00
DN-LAT400-A	301-400	500	$54.00
DN-LAT500-A	401-500	500	$54.00
DN-LAT600-A	501-600	500	$54.00
DN-LATB-A	Blank Tags	500	$39.00
DN-LATS-A	L1, L2, L3, L, N, +,-, COM,COM*	500	$54.00

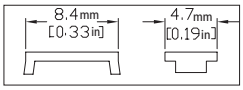
Dimensions



- 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	$47.00
DN-QL200	101-200	500	$47.00
DN-QL300	201-300	500	$47.00
DN-QL400	301.400	500	$47.00
DN-QL500	401-500	500	$47.00
DN-QLB	Blank Tags	500	$39.50
DN-QLS	L1, L2, L3, L, N, +,-, COM,COM*	500	$54.00

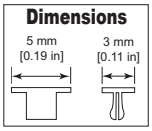
Dimensions



- 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.

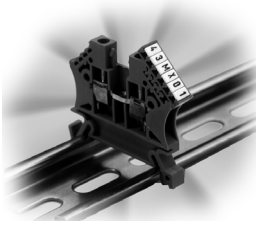
Marking Tags continued

Marking Tags DN-LT Series			
Part Number	**Marking Sequence**	**Qty**	**Price**
DN-LT15	1-5	100	$11.00
DN-LT60	6-0	100	$11.00
DN-LT1	1	100	$11.00
DN-LT2	2	100	$11.00
DN-LT3	3	100	$11.00
DN-LT4	4	100	$11.00
DN-LT5	5	100	$11.00
DN-LT6	6	100	$11.00
DN-LT7	7	100	$11.00
DN-LT8	8	100	$11.00
DN-LT9	9	100	$11.00
DN-LT0	0	100	$11.00
DN-LTBLNK	Unprinted	100	$11.00
DN-LTA	A	100	$11.00
DN-LTB	B	100	$11.00
DN-LTC	C	100	$11.00
DN-LTD	D	100	$11.00
DN-LTE	E	100	$11.00
DN-LTF	F	100	$11.00
DN-LTG	G	100	$11.00
DN-LTH	H	100	$11.00
DN-LTI	I	100	$11.00
DN-LTJ	J	100	$11.00
DN-LTK	K	100	$11.00
DN-LTL	L	100	$11.00
DN-LTM	M	100	$11.00
DN-LTN	N	100	$11.00
–	–	–	–
DN-LTP	P	100	$11.00
DN-LTQ	Q	100	$11.00
DN-LTR	R	100	$11.00
DN-LTS	S	100	$11.00
DN-LTT	T	100	$11.00
DN-LTU	U	100	$11.00
DN-LTV	V	100	$11.00
DN-LTW	W	100	$11.00
DN-LTX	X	100	$11.00
DN-LTY	Y	100	$11.00
DN-LTZ	Z	100	$11.00
DN-LTGND	⏚	100	$11.00
DN-LTPOS	+	100	$11.00
DN-LTNEG	-	100	$11.00
DN-LTAC	~	100	$11.00
DN-LTDC	=	100	$11.00

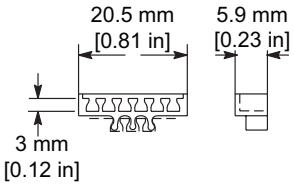


- These marking tags allow the flexibility of creating custom marking sequences on site.
- The DN-M series supports a maximum of three digits (tags), while other DIN*nectors* support up to four digits (tags).
- Material: Thermoplastic with heat embossed black print.

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	$16.00

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	$10.00
DN-EMLBL2	Labels printed 1 – 12		100	$14.50
DN-EMLBL3	Labels printed 13 – 24		100	$14.50

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	$66.00
DN-WM-1	Wire tag holder, clear, 12mm length, 0.051–0.118 in diameter; for 22–16 AWG wire	DN-WMTAG1	200	$14.00
DN-WM-2	Wire tag holder, clear, 12mm length, 0.098–0.196 in diameter; for 16-11 AWG wire		200	$14.00
DN-WM-3	Wire tag holder, clear, 12mm length, 0.157–0.393 in diameter; for 13–5 AWG wire		100	$9.00
DN-WM-4	Wire tag holder, clear, 12mm length, 0.314–0.629 in diameter; for 5AWG wire		100	$8.50