

Terminal Blocks

BN-W BNH-W Series



UL recognized, CSA certified, and TÜV compliant.

Screw-in and touch-down terminals available.



• See website for details on approvals and standards.

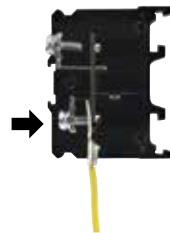
Touch-down terminal blocks reduce wiring time. (BNH-W/BNDH-W Series)

1. Insert the Crimping Terminal



Terminal screw is always in the open position. No need to loosen the screw.

2. Push the Screw Down



Push the screw down to temporarily hold the wire in place.

3. Tighten the Screw



The screws can be tightened easily with a pneumatic screwdriver.

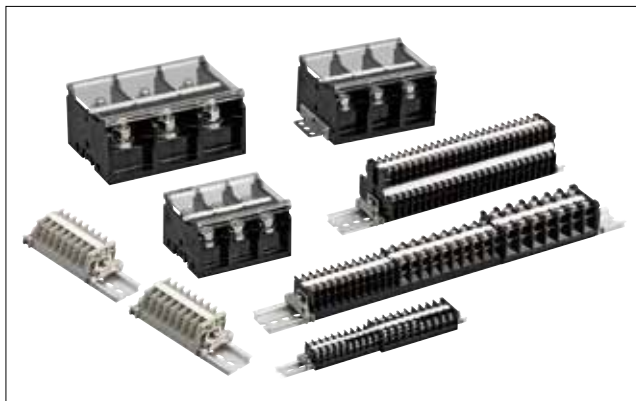
- Molded from UL94V-0 material with excellent flame and shock resistance.
- Terminal blocks can be mounted on a 35-mm-wide DIN rail and 30-mm-wide IEC type C rail.



- 9.5-mm-wide marking strips can be used on all models. 17-mm-wide sliding type marking strips also available. (BN10W to BN30W)
- Terminal blocks of different shapes and capacities can be installed without using an end plate. (BN/BNH10W to BN/BNH30W)
- Screw and stud terminals available for large capacity terminal blocks.
- Additional mounting and removal of terminals is easy. (BN□10W to BN□150W)
- Complies with JIS C 8201-7-1 and NECA C 2811.
- UL recognized, CSA certified, and EN compliant (TÜV approved). (Except common terminal)
- UL recognized for field wiring (FW2).

BN-W / BNH-W Series Terminal Blocks

UL recognized, CSA certified, and TÜV compliant.
Touch-down terminals reduce wiring time.



• Complies with JIS C 8201-7-1 and NECA C 2811.

General Ratings

Dielectric Strength	2500V AC, 1 minute
Insulation Resistance	100 MΩ minimum
Operating Temperature	-25 to +55°C (no freezing)
Storage Temperature	-25 to +70°C (no freezing)
Operating Humidity	45 to 85% RH (no condensation)

Material

Parts Name	Material
Housing	Modified PPE
Bus Bars	Brass (Nickel-plated)
Terminal Screw	Steel (Zinc chrome-plated)
Spring	Stainless steel (touch-down type only)

Ratings/Terminal Screw Tightening Torque

Style	Part No.		UL/CSA Ratings		EN Ratings (*1)		JIS Ratings		Terminal Screw	Tightening Torque (N·m)
	Screw-in	Touch-Down	Voltage/Current	Wire Size (AWG)	Voltage/Current	Wire Size [mm²/(AWG)]	Voltage/Current	Wire Size (mm²)		
Standard	BN10W ★	BNH10W ★	600V/15A	22-16	660V/16A	1.25/(22-16)	800V/16A	1.25	M3	0.6 to 1.0
	BN15MW ★	BNH15MW ★	600V/15A	22-14	660V/22A	2/(22-14)	800V/16A	1.25 (2) *2	M3	0.6 to 1.0
	BN15LW ★	BNH15LW ★	600V/20A	22-14	660V/22A	2/(22-14)	630V/21A	2	M3.5	1.0 to 1.3
	BN15MWT ★	BNH15MWT ★	600V/15A	22-14	660V/22A	2/(22-14)	800V/21A	2	M3.5	1.0 to 1.3
	BN15LWT ★	BNH15LWT ★	600V/30A	22-14	660V/22A	3.5/(22-14)	630V/30A	3.5	M4	1.4 to 2.0
	BN30W ★	BNH30W ★	600V/35A	18-10	660V/38A	5.5/(18-10)	630V/40A	5.5	M4	1.4 to 2.0
	BN50W	BNH50W	600V/60A	16-6	660V/67A	14/(16-6)	800V/70A	14	M5	2.6 to 3.7
Large Capacity	BN75W ★		600V/80A	16-4	660V/94A	22/(8-4)	1000V/94A	22	M6	3.9 to 5.4
	BN100W		600V/100A	16-2	660V/132A	38/(2)	1000V/132A	38	M8	10 to 13.5
	BN150W		600V/150A	16-1/0	660V/175A	60/(1/0)	1000V/175A	60	M8	
	BN150NW		600V/150A	16-1/0	660V/175A	60/(1/0)	630V/175A	60	M8	10 to 13.5
	BN200BW□, BN200NW□		600V/200A	4/0	660V/240A	100/(4/0)	800V/240A	100	M10	21 to 28
	BN300BW□, BN300NW□		600V/310A	300MCM	660V/310A	150/(300MCM)	800V/310A	150	M10	
	BN400BW□, BN400NW□		600V/350A	400MCM	660V/370A	200/(400MCM)	800V/370A	200	M12	38 to 49
	BN500BW□, BN500NW□		600V/500A	500MCM	660V/430A	240/(500MCM)	800V/430A	250	M16	83 to 116
	BN600NW□K		600V/600A	600MCM	660V/520A	300/(600MCM)	800V/520A	325	M16	
With Disconnecting Switch	BNT20	—	—	—	—	—	600V/20A	5.5	M4	1.4 to 2.0
With Fuse	BNF10S	—	—	—	—	—	600V/10A	5.5	M4	1.4 to 2.0
	BNF10N	—	—	—	—	—	600V/10A	5.5	M4	
Double-Deck	BND15W	BNDH15W	600V/10A	22-14	660V/22A	2/(22-14)	800V/16A	1.25 (2) *2	M3	0.6 to 1.0
	BND15LW	BNDH15LW	600V/15A	22-14	660V/22A	2/(22-14)	800V/21A	2	M3.5	1.0 to 1.3
	BND15WT	BNDH15WT	600V/15A	22-14	660V/22A	2/(22-14)	800V/21A	2	M3.5	1.0 to 1.3
Common Terminal	BN15MC□	—	—	—	—	—	600V/16A Common Current	1.25 (2) *2	M3	0.6 to 1.0

*1: Ratings approved by TÜV based on EN60947-7-1.

*2: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

*3: Part No. with ★ is UL recognized for field wiring (FW2).

Specify the number of poles in place of □.

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BN-W / BNH-W Series Terminal Blocks

Terminal Blocks

Terminal Style			Part No.	Applicable Wire (mm ²)	Terminal Screw	Width (mm)	Quantity	Page
Standard								
Screw-in	1-pole	16A	BN10W	1.25	M3	7	50	G-012
			BN15MW	1.25 (2) (Note)	M3	8	50	
		21A	BN15LW	2	M3.5	10.5	50	
			BN15MWT	2	M3.5	8	50	
		30A	BN15LWT	3.5	M4	10.5	50	G-014
		40A	BN30W	5.5	M4	12	50	
		70A	BN50W	14	M5	15.5	20	
Touch-Down	1-pole	16A	BNH10W	1.25	M3	7	50	G-012
			BNH15MW	1.25 (2) (Note)	M3	8	50	
		21A	BNH15LW	2	M3.5	10.5	50	
			BNH15MWT	2	M3.5	8	50	
		30A	BNH15LWT	3.5	M4	10.5	50	G-014
		40A	BNH30W	5.5	M4	12	50	
		70A	BNH50W	14	M5	15.5	20	
Large Capacity (Rail Mount)								
Screw	1-pole	94A	BN75W	22	M6	20	10	G-015
		132A	BN100W	38	M8	26	5	
		175A	BN150W	60	M8	26	5	G-016
			BN150NW	60	M8	26	5	
	2-pole	240A	BN200BW2	100	M10	37	1	G-017
	3-pole		BN200BW3					
	4-pole		BN200BW4					
	2-pole	310A	BN300BW2	150	M10	44	1	G-018
	3-pole		BN300BW3					
	4-pole		BN300BW4					
	2-pole	370A	BN400BW2	200	M12	57	1	G-019
	3-pole		BN400BW3					
	4-pole		BN400BW4					
Stud	2-pole	240A	BN200NW2	100	M10	37	1	G-017
	3-pole		BN200NW3					
	4-pole		BN200NW4					
	2-pole	310A	BN300NW2	150	M10	44	1	G-018
	3-pole		BN300NW3					
	4-pole		BN300NW4					
	2-pole	370A	BN400NW2	200	M12	57	1	G-019
	3-pole		BN400NW3					
4-pole	BN400NW4							

Note The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

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Terminal Blocks

Terminal Style			Part No.	Applicable Wire (mm ²)	Terminal Screw	Width (mm)	Quantity	Page
Large Capacity (Surface Mount)								
Screw	2-pole	240A	BN200BW2K	100	M10	37	1	G-017
	3-pole		BN200BW3K					
	4-pole		BN200BW4K					
	2-pole	310A	BN300BW2K	150	M10	44	1	G-018
	3-pole		BN300BW3K					
	4-pole		BN300BW4K					
	2-pole	370A	BN400BW2K	200	M12	57	1	G-019
	3-pole		BN400BW3K					
	4-pole		BN400BW4K					
	2-pole	430A	BN500BW2K	250	M16	57	1	G-020
	3-pole		BN500BW3K					
	4-pole		BN500BW4K					
Stud	2-pole	240A	BN200NW2K	100	M10	37	1	G-017
	3-pole		BN200NW3K					
	4-pole		BN200NW4K					
	2-pole	310A	BN300NW2K	150	M10	44	1	G-018
	3-pole		BN300NW3K					
	4-pole		BN300NW4K					
	2-pole	370A	BN400NW2K	200	M12	57	1	G-019
	3-pole		BN400NW3K					
	4-pole		BN400NW4K					
	2-pole	430A	BN500NW2K	250	M16	57	1	G-020
	3-pole		BN500NW3K					
	4-pole		BN500NW4K					
	2-pole	520A	BN600NW2K	325	M16	57		
	3-pole		BN600NW3K					
	4-pole		BN600NW4K					

Terminal Style			Part No.	Applicable Wire (mm ²)	Terminal Screw	Width (mm)	Quantity	Page
With Disconnecting Switch, Fuse								
Disconnecting Switch	20A	1-pole	BNT20	5.5	M4	15	20	G-021
With Fuse	10A	1-pole	BNF10S-□	5.5	M4	15	20	
			BNF10N-□					
Double-Deck Terminal Block								
Screw-in	16A	1-pole	BND15W	1.25 (2)*	M3	8	25	G-022
Touch-Down			BNDH15W					
Screw-in	21A	1-pole	BND15LW	2	M3.5	8	25	
Touch-Down			BNDH15LW					
Screw-in	21A	1-pole	BND15WT	2	M3.5	12	25	G-023
Touch-Down			BNDH15WT					
Common Terminal								
Screw-in 16A (Common Current)		4-pole	BN15MC4	1.25 (2)*	M3	8	10	G-024
		8-pole	BN15MC8					
		10-pole	BN15MC10					

* The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.
Specify the fuse rating in place of □. 1A: 1, 3A: 3, 5A: 5.

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Accessories

When ordering accessories, check if the accessories are necessary by referring to the table.

×: Necessary

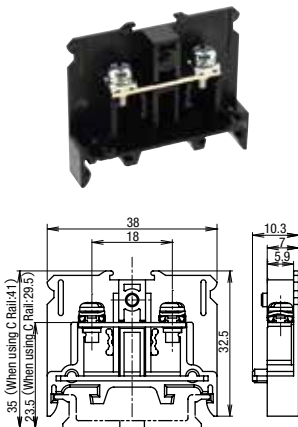
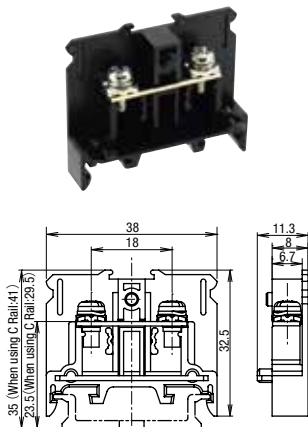
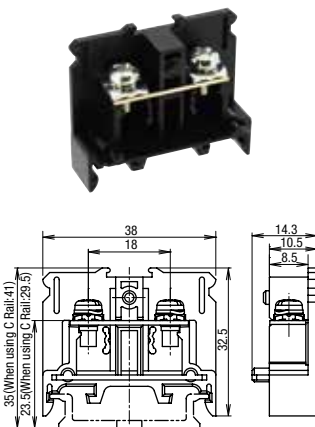
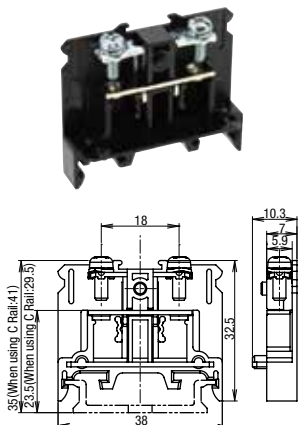
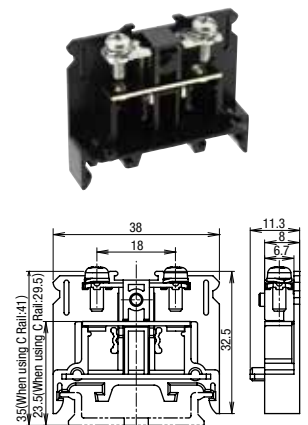
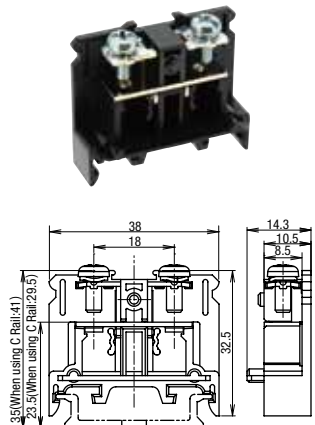
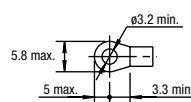
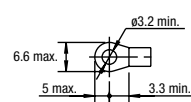
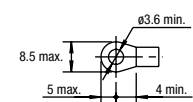
○: Optional

APEM	Terminal		Part No.	End	Rail	End	Rail	Dust	Mar	Mar	Slid	Jun	Rem	Surf	Con	Con	
Switches & Pilot Lights	Standard	16A to 40A Screw-in Touch-Down	BN10W, BN15MW, BN15LW, BN15MWT, BN15LWT, BN30W	×	×	×	○	○	○	○	○	○	○	—	—	—	
Control Boxes																	
Emergency Stop Switches		70A Screw-in Touch-Down	BNH10W, BNH15MW, BNH15LW, BNH15MWT, BNH15LWT, BNH30W	×	×	×	○	○	○	○	—	○	○	—	—	—	
Enabling Switches	Large Capacity																
Safety Products		Rail Mount 1-Pole 94A to 175A	BN75W, BN100W, BN150W, BN150NW	×	×	×	○	○	○	○	—	—	—	—	—	—	
Explosion Proof		Rail Mount 240A to 370A	BN200BW□, BN300BW□, BN400BW□ BN200NW□, BN300NW□, BN400NW□	—	×	×	—	Supplied	Supplied	—	—	—	—	—	—	—	
Terminal Blocks																	
Relays & Sockets		Surface Mount 240A to 520A	BN200BW□K, BN300BW□K, BN400BW□K BN200NW□K, BN300NW□K, BN400NW□K BN500BW□K, BN500NW□K, BN600NW□K	—	—	—	—			Supplied	Supplied	—	—	—	—	—	—
Circuit Protectors	With Disconnecting Switch		BNT20	×	×	×	○	○	○	○	—	—	—	—	—	—	
Power Supplies	With Fuse		BNF10S-□A, BNF10N-□A	×	×	×	○	—	○	○	—	—	—	—	—	—	
LED Illumination	Double-Deck		BND15W, BND15LW, BNDH15W, BNDH15LW, BND15WT, BNDH15WT	×	×	×	○	○	○	○	—	○	—	×	×	×	
Controllers	Common Terminal		BN15MC□	—	×	×	—	○	○	○	○	—	—	—	—	—	
Operator Interfaces	*1: Accessory not necessary for surface mounting.			G-025		G-026			G-027			G-028		G-029			
Sensors	*2: Accessory not necessary for rail mounting.			Page													
Specify the number of poles in place of □.																	
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*1: Accessory not necessary for surface mounting.

*2: Accessory not necessary for rail mounting.

Specify the number of poles in place of □.

Standard	Screw-in Terminal	Part No.	☆ BN10W	16A	M3	☆ BN15MW	16A	M3	☆ BN15LW	21A	M3.5
		Dimensions									
		Quantity	50			50			50		
		Weight (Approx.)	5.5g			6.5g			6.5g		
		Part No.	☆ BNH10W	16A	M3	☆ BNH15MW	16A	M3	☆ BNH15LW	21A	M3.5
	Touch-Down Terminal	Dimensions									
		Quantity	50			50			50		
		Weight (Approx.)	6.5g			7g			7.5g		
	Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS
	Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V	600V	660V	630V
Wire Size		22-16 AWG	1.25 mm ² (22-16 AWG)	1.25 mm ²	22-14 AWG	2 mm ² (22-14 AWG)	1.25 mm ² (*1) (2mm ² max)	22-14 AWG	2 mm ² (22-14 AWG)	2 mm ²	
Rated Current *2		15A	16A	16A	15A	22A	16A	20A	22A	21A	
Terminal screw		M3			M3			M3.5			
Crimping Terminal		1.25-3			1.25-3 (2-3)			2-3.5			
Max. No. of Crimping Terminals		2			2			2			
		Tightening Torque	0.6 to 1.0 N·m			0.6 to 1.0 N·m			1.0 to 1.3 N·m		
Crimping Terminal Dimensions (mm) *3											
Accessories *4	End Plate	BNE15W									
	Dust Cover	BNC230									
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725, BNM725-TK1700									
	Marking Strip Fastner	BNM3									
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BNL6									
	C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL7									
		DIN + C Rail/End Clip	Aluminum: BNJA1000, Steel: BNL6/BNL7								

*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

*2: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*4: See **G-025** for details on accessories.

• Part No. with ☆ is UL recognized for field wiring (FW2).

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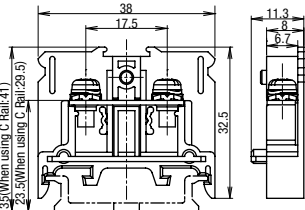
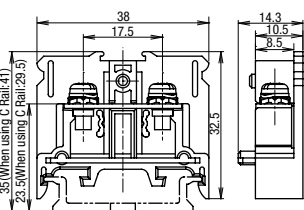
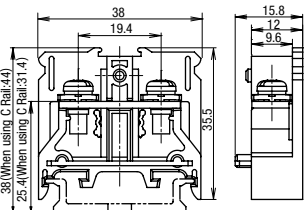
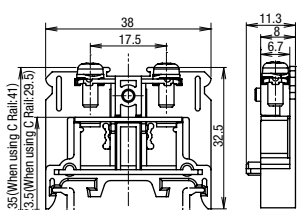
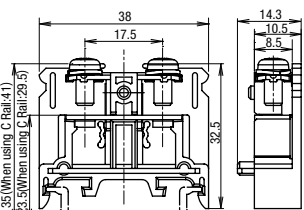
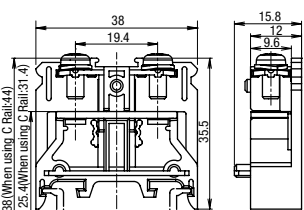
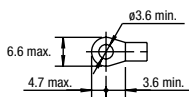
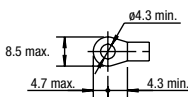
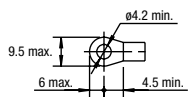
Operator
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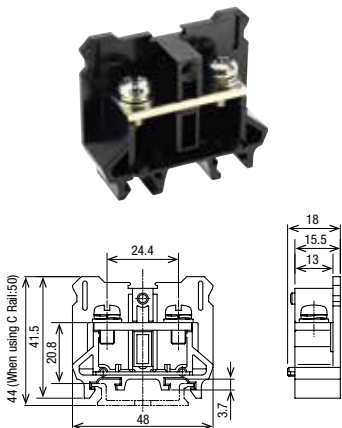
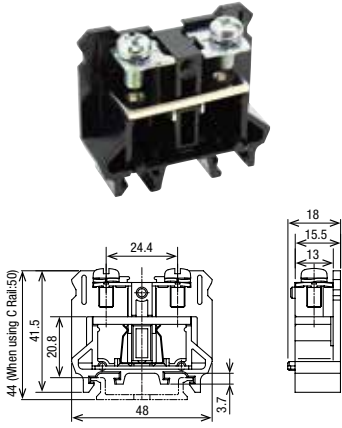
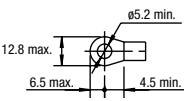
Standard	Screw-in Terminal		Touch-Down Terminal							
	Part No.	☆ BN15MWT 21A M3.5	☆ BN15LWT 30A M4	☆ BN30W 40A M4						
	Dimensions	 	 	 						
	Quantity	50	50	50						
	Weight (Approx.)	9g	9.5g	13g						
	Part No.	☆ BNH15MWT 21A M3.5	☆ BNH15LWT 30A M4	☆ BNH30W 40A M4						
	Dimensions	 	 	 						
	Quantity	50	50	50						
	Weight (Approx.)	10g	10g	14g						
	Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	630V	600V	660V	630V
	Wire Size	22-14 AWG	2 mm ² (22-14 AWG)	2 mm ²	22-14 AWG	3.5 mm ² (22-14 AWG)	3.5 mm ²	18-10 AWG	5.5 mm ² (18-10 AWG)	5.5 mm ²
	Rated Current *1	15A	22A	21A	30A	22A	30A	35A	38A	40A
	Terminal screw	M3.5			M4			M4		
	Crimping Terminal	1.25-3.5 to 2-3.5			1.25-4 to 3.5-4			1.25-4 to 5.5-4		
	Max. No. of Crimping Terminals	2			2			2		
Tightening Torque	1.0 to 1.3 N·m			1.4 to 2.0 N·m			1.4 to 2.0 N·m			
Crimping Terminal Dimensions (mm) *2										
Accessories *3	End Plate	BNE15W						BNE30W		
	Dust Cover	BNC230						BNC230		
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725, BNM725-TK1700								
	Marking Strip Fastner	BNM3								
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BNL6								
	C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL7								
DIN + C Rail/End Clip	Aluminum: BNJA1000, Steel: BNL6/BNL7									

*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

*2: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*3: See **G-025** for details on accessories.

• Part No. with ☆ is UL recognized for field wiring (FW2).

Standard	Screw-in Terminal	Part No.	☆ BN50W	70A	M5
		Dimensions			
		Quantity	20		
		Weight (Approx.)	25.4g		
		Part No.	☆ BNH50W	70A	M5
	Touch-Down Terminal	Dimensions			
		Quantity	20		
		Weight (Approx.)	29g		
		Standards	UL/CSA	EN	JIS
		Insulation Voltage	600V	660V	800V
Specification / Ratings	Wire Size		16-6 AWG	14 mm ² (16-6 AWG)	14 mm ²
	Rated Current *1		60A	67A	70A
	Terminal screw		M5		
	Crimping Terminal		1.25-5 to 14-5		
	Max. No. of Crimping Terminals		2		
	Tightening Torque		2.6 to 3.7 N · m		
	Crimping Terminal Dimensions (mm) *2				
Accessories *3	End Plate		BNE50W		
	Dust cover		BNC320		
	Marking Strip		PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725, BNM725-TK1700		
	Marking Strip Fastner		BNM3		
	DIN Rail/End Clip		Aluminum: BAA1000, Steel: BNL8		
	C Rail/End Clip		Aluminum: BNCA1000, Steel: BNL8		
	DIN + C Rail/End Clip		Aluminum: BNJA1000, Steel: BNL8		

*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.

*2: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*3: See G-025 for details on accessories.

• Part No. with ☆ is UL recognized for field wiring (FW2).

APEM

Switches &
Pilot Lights

Control Boxes

Emergency
Stop SwitchesEnabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

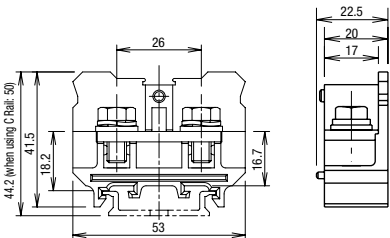
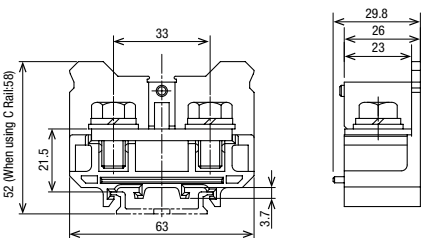
Operator
Interfaces

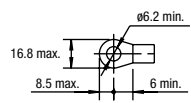
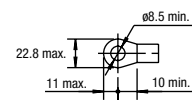
Sensors

AUTO-ID

BN

BN-W / BNH-W Series Terminal Blocks

Large Capacity Screw Terminal	Part No.	☆ BN75W 94A M6	BN100W 132A M8
	Dimensions	 	 
	Quantity	10	5
	Weight (Approx.)	45g	86g

Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	1000V	600V	660V	1000V
	Wire Size	16-4 AWG	22 mm ² (8-4 AWG)	22 mm ²	16-2 AWG	38 mm ² (2AWG)	38 mm ²
	Rated Current *1	80A	94A	94A	100A	132A	132A
	Terminal screw *2	M6			M8		
	Crimping Terminal	2-6 to 22-6			2-8 to 38-8		
	Max. No. of Crimping Terminals	2			2		
	Socket Wrench	12.7 mm square drive hexagonal socket 10 (*4)			12.7 mm square drive hexagonal socket 13 (*2)		
Tightening Torque		3.9 to 5.4 N・m			10 to 13.5 N・m		
Crimping Terminal Dimensions (mm) *3							
Accessories *5	End Plate	BNE75W			BNE100W		
	Dust Cover	BNC420			BNC520		
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725, BNM725-TK1700					
	Marking Strip Fastner	BNM3					
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BNL8					
	Type C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL8					
	DIN+Type C Rail/End Clip	Aluminum: BNJA1000, Steel: BNL8					

*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

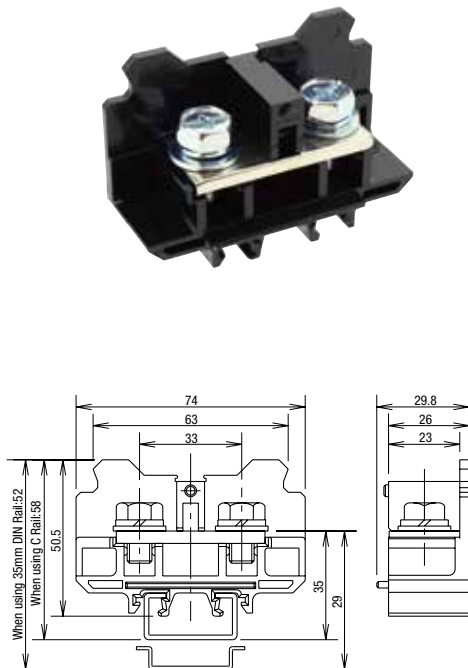
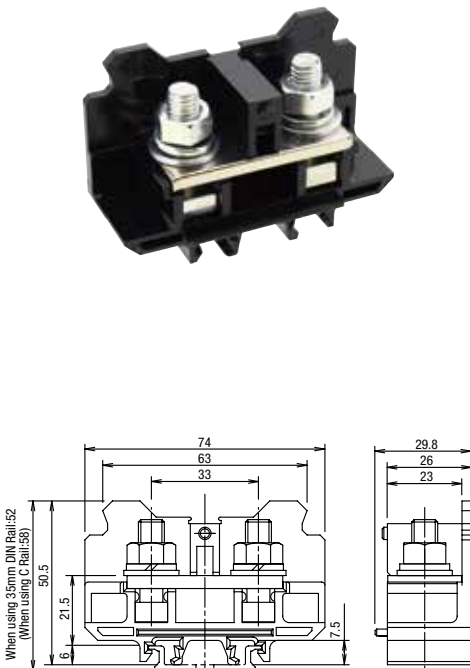
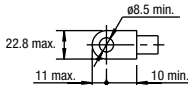
*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*4: Applicable wrench or screwdriver can be used to tighten screws.

*5: See **G-025** for details on accessories.

• Part No. with ☆ is UL recognized for field wiring (FW2).

Large Capacity Screw Terminal	Part No.	BN150W	175A	M8	BN150NW	175A	M8
	Dimensions						
	Quantity	5			5		
	Weight (Approx.)	88g			95g		
Standards	UL/CSA	EN	JIS	—	—	JIS	
Specification / Ratings	Insulation Voltage	600V	660V	1000V	—	—	630V
	Wire Size	16-1/0 AWG	60 mm ² (1/0 AWG)	60 mm ²	—	—	60 mm ²
	Rated Current *1	150A	175A	175A	—	—	175A
	Terminal screw *2	M8			M8		
	Crimping Terminal	2-8 to 60-8			2-8 to 60-8		
	Max. No. of Crimping Terminals	2			2		
	Socket Wrench	12.7 mm square drive hexagonal socket 13 (*4)			12.7 mm square drive hexagonal socket 13		
Tightening Torque	10 to 13.5 N·m			10 to 13.5 N·m			
Crimping Terminal Dimensions (mm) *3							
Accessories *5	End Plate	BNE150W					
	Dust Cover	BNC520					
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725, BNM725-TK1700			PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725, BNM625, BNM725-TK1700		
	Marking Strip Fastner	BNM3					
	DIN Rail/End Clip	Aluminum BAA1000, Steel: BNL8					
	Type C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL8					
	DIN+Type C Rail/End Clip	Aluminum: BNJA1000, Steel: BNL8					

*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*4: Applicable wrench or screwdriver can be used for tightening screws.

*5: See **G-025** for details on accessories.

Large Capacity	Screw Terminal	Part No.	BN200BW□ 240A M10			BN200BW□K 240A M10 Surface Mount		
		Dimensions	Hexagonal bolt M10×19 Dust Cover 90 (between terminal screws: 46) 66.5 (all rail types) 65 1.5 78 (2P), 115 (3P), 152 (4P) 37 33 4 34			Panel Cut-out 4-M6 Screw 30 100 (2P), 137 (3P), 174 (4P) 90 (between terminal screws: 46) Dust Cover 90 (between terminal screws: 46) 66.5 65 1.5 78 (2P), 115 (3P), 152 (4P) 37 33 4 3-ø8 Hole 34 8 100 (2P), 137 (3P), 174 (4P) 8		
		Quantity	1			1		
		Weight (Approx.)	2P: 430g, 3P: 650g, 4P: 870g			2P: 490g, 3P: 710g, 4P: 930g		
	Stud Terminal	Part No.	BN200NW□ 240A M10			BN200NW□K 240A M10 Surface Mount		
		Dimensions	Hexagonal bolt M10×19 Dust Cover 90 (between terminal screws: 46) 66.5 (all rail types) 65 1.5 78 (2P), 115 (3P), 152 (4P) 37 33 4 34			Panel Cut-out 4-M6 Screw 30 100 (2P), 137 (3P), 174 (4P) 90 (between terminal screws: 46) Dust Cover 90 (between terminal screws: 46) 66.5 65 1.5 78 (2P), 115 (3P), 152 (4P) 37 33 4 3-ø8 Hole 34 8 100 (2P), 137 (3P), 174 (4P) 8		
		Quantity	1			1		
		Weight (Approx.)	2P: 500g, 3P: 720g, 4P: 940g			2P: 560g, 3P: 780g, 4P: 1000g		
	Specification / Ratings	Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS
		Insulation Voltage	600V	660V	800V	600V	660V	800V
Wire Size		4/0 AWG	100 mm ² (4/0 AWG)	100 mm ²	4/0 AWG	100 mm ² (4/0 AWG)	100 mm ²	
Rated Current *1		200A	240A	240A	200A	240A	240A	
Terminal Screw *2		M10			M10			
Crimping Terminal		5.5-10 to 100-10			5.5-10 to 100-10			
Max. No. of Crimping Terminals		2			2			
Socket Wrench		12.7 mm square drive hexagonal socket 17 (*2)			12.7 mm square drive hexagonal socket 17 (*2)			
Tightening Torque		21 to 28 N·m			21 to 28 N·m			
Crimping Terminal Dimensions (mm) *3								
Accessories (Supplied)	End Plate, Dust Cover, Marking Strip are supplied. (Note) Marking Strip Fastener (BNM3) is not necessary.							
Accessories *4	DIN Rail	Aluminum: BAA1000			—			
	C Rail	Aluminum: BNCA1000			—			
	DIN+C Rail	Aluminum: BNJA1000			—			
	End Clip	Steel: BNL8			—			

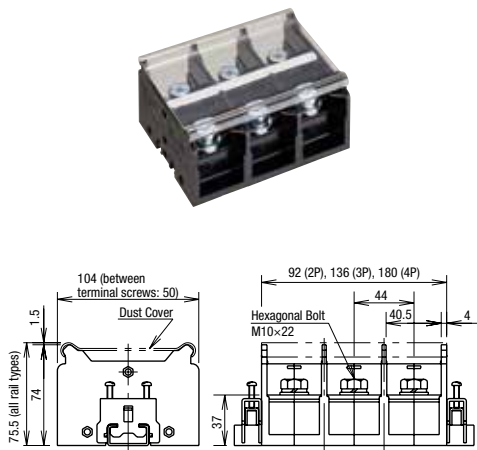
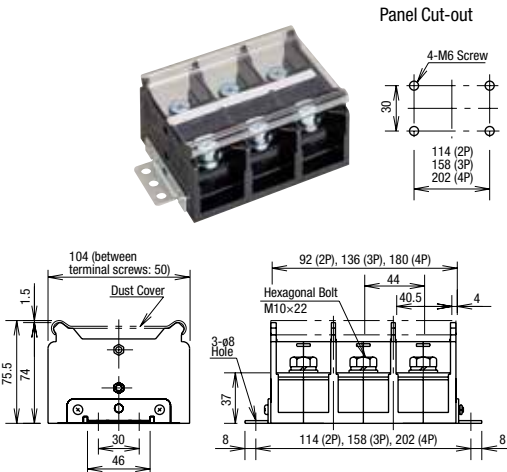
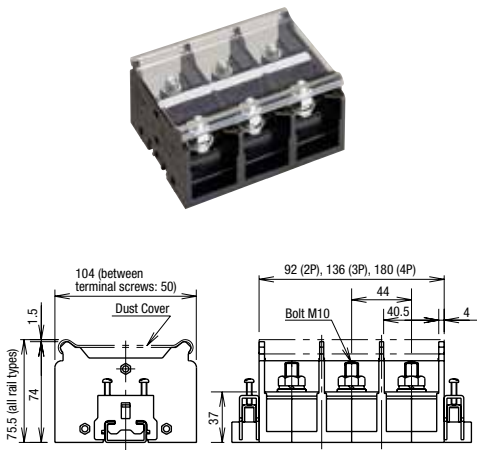
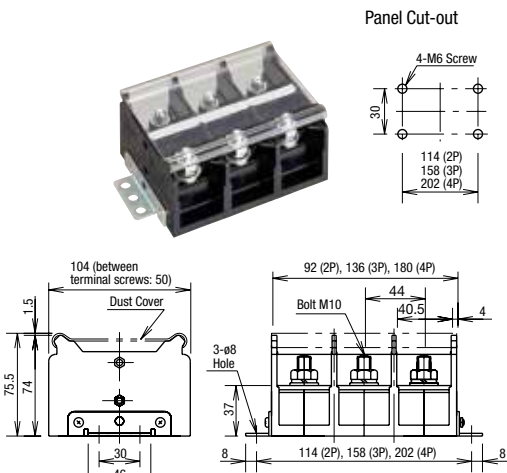
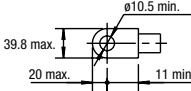
*1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.

*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*4: See **G-025** for details on accessories.

Specify the number of poles in place of $\square$. 2-pole: 2, 3-pole: 3, 4-pole: 4.

Large Capacity	Screw Terminal	Part no.	BN300BW□ 310A M10			BN300BW□K 310A M10 Surface Mount				
		Dimensions								
		Quantity	1			1				
		Weight (Approx.)	2P: 480g, 3P: 750g, 4P: 1020g			2P: 540g, 3P: 810g, 4P: 1080g				
	Stud Terminal	Part no.	BN300NW□ 310A M10			BN300NW□K 310A M10 Surface Mount				
		Dimensions								
		Quantity	1			1				
		Weight (Approx.)	2P: 540g, 3P: 810g, 4P: 1080g			2P: 600g, 3P: 870g, 4P: 1140g				
		Standards						UL/CSA	EN	JIS
		Specification / Ratings	Insulation Voltage		600V		660V		800V	
Wire Size			300 MCM		150 mm ² (300 MCM)		150 mm ²			
Rated Current *1			310A		310A		310A			
Terminal Screw *2			M10		M10					
Crimping Terminal			5.5-10 to 150-10		5.5-10 to 150-10					
Max. No. of Crimping Terminals			2		2					
Socket Wrench			12.7 mm square drive hexagonal socket 17 (*2)		12.7 mm square drive hexagonal socket 17 (*2)					
Tightening Torque		21 to 28 N·m		21 to 28 N·m						
Crimping Terminal Dimensions (mm) *3										
Accessories (Supplied)		End Plate, Dust Cover, Marking Strip are supplied. (Note) Marking Strip Fastener (BNM3) is not necessary.								
Accessories *4	DIN Rail		Aluminum: BAA1000				—			
	C Rail		Aluminum: BNCA1000				—			
	DIN+C Rail		Aluminum: BNJA1000				—			
	End Clip		Steel: BNL8				—			

*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.

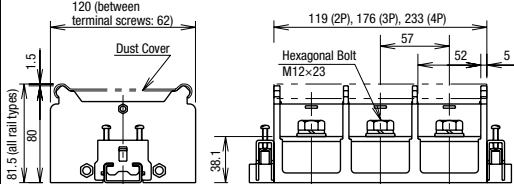
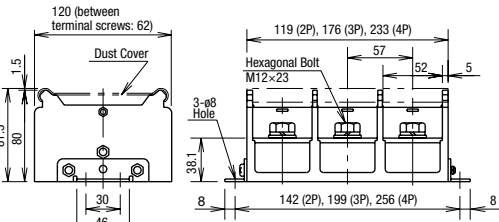
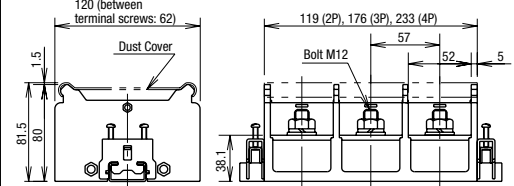
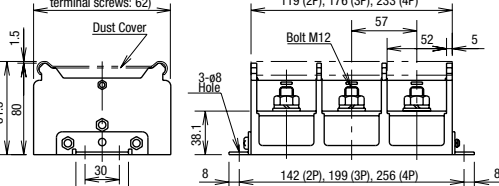
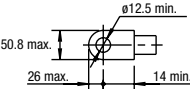
*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*4: See G-025 for details on accessories.

Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.

BN-W / BNH-W Series Terminal Blocks

Large Capacity	Screw Terminal	Part no.	BN400BW□		370A	M12	BN400BW□K		370A	M12	Surface Mount	
		Dimensions	 					 				
		Quantity	1					1				
		Weight (Approx.)	2P: 950g, 3P: 1400g, 4P: 1860g					2P: 1030g, 3P: 1480g, 4P: 1940g				
	Stud Terminal	Part No.	BN400NW□		370A	M12	BN400NW□K		370A	M12	Surface Mount	
		Dimensions	 					 				
		Quantity	1					1				
		Weight (Approx.)	2P: 980g, 3P: 1460g, 4P: 1930g					2P: 1060g, 3P: 1540g, 4P: 1990g				
		Standards		UL/CSA	EN	JIS	UL/CSA		EN	JIS		
		Specification / Ratings	Insulation Voltage	600V	660V	800V	600V		660V	800V		
Wire Size	400 MCM		200 mm ² (400 MCM)	200 mm ²	400 MCM		200 mm ² (400 MCM)	200 mm ²				
Rated Current *1	350A		370A	370A	350A		370A	370A				
Terminal Screw *2	M12			M12								
Crimping Terminal	14-12 to 200-12			14-12 to 200-12								
Max. No. of Crimping Terminals	2			2								
Socket Wrench	12.7 mm square drive hexagonal socket 19 (*2)			12.7 mm square drive hexagonal socket 19 (*2)								
Tightening Torque		38 to 49 N·m			38 to 49 N·m							
Crimping Terminal Dimensions (mm) *3												
Accessories (Supplied)		End Plate, Dust Cover, Marking Strip are supplied. (Note) Marking Strip Fastener (BNM3) is not necessary.										
Accessories *4	DIN Rail	Aluminum: BAA1000				—						
	C Rail	Aluminum: BNCA1000				—						
	DIN+C Rail	Aluminum: BNJA1000				—						
	End Clip	Steel: BNL8				—						

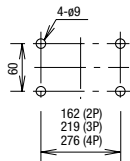
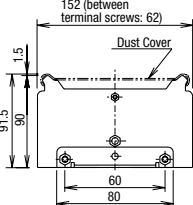
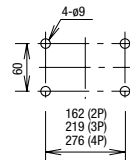
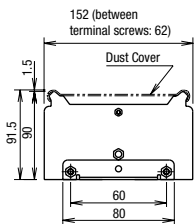
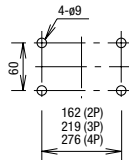
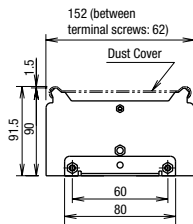
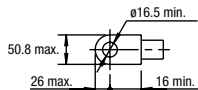
*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.

*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*4: See G-025 for details on accessories.

Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.

Large Capacity Surface Mount	Screw Terminal	Part No	BN500BW□K	430A	M16	Surface Mount	—		
		Dimensions	 Panel Cut-out  4-ø9 60 162 (2P) 219 (3P) 276 (4P)  152 (between terminal screws: 62) Dust Cover 91.5 90 1.5 60 80 42.5 4-ø9 Hole 8.5 119 (2P), 176 (3P), 233 (4P) Bolt M16×35 57 52 5 162 (2P), 219 (3P), 276 (4P) 8.5					—	
		Quantity	1					—	
		Weight (Approx.)	2P: 1550g, 3P: 2250g, 4P: 2950g					—	
		Part No.	BN500NW□K	430A	M16	Surface Mount	BN600NW□K	520A	M16
	Stud Terminal	Dimensions	 Panel Cut-out  4-ø9 60 162 (2P) 219 (3P) 276 (4P)  152 (between terminal screws: 62) Dust Cover 91.5 90 1.5 60 80 42.5 2-ø9 Hole 8.5 119 (2P), 176 (3P), 233 (4P) Bolt M16 57 52 5 162 (2P), 219 (3P), 276 (4P) 8.5					 Panel Cut-out  4-ø9 60 162 (2P) 219 (3P) 276 (4P)  152 (between terminal screws: 62) Dust Cover 91.5 90 1.5 60 80 43.5 2-ø9 Hole 8.5 119 (2P), 176 (3P), 233 (4P) Bolt M16 57 52 5 162 (2P), 219 (3P), 276 (4P) 8.5	
		Quantity	1					1	
		Weight (Approx.)	2P: 1600g, 3P: 2300g, 4P: 3000g					2P: 1650g, 3P: 2400g, 4P: 3150g	
		Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS	
		Insulation Voltage	600V	660V	800V	600V	660V	800V	
Wire Size	500 MCM	240 mm ² (500 MCM)	250 mm ²	600 MCM	300 mm ² (600 MCM)	325 mm ²			
Rated Current *1	500A	430A	430A	600A	520A	520A			
Terminal Screw *2	M16			M16					
Crimping Terminal	14-16 to 200-16		325-16	14-16 to 200-16		325-16			
Max. No. of Crimping Terminals	2		1	2		1			
Socket Wrench	12.7 mm square drive hexagonal socket 24 (*2)			12.7 mm square drive hexagonal socket 24 (*2)					
Tightening Torque	83 to 116 N·m			83 to 116 N·m					
Crimping Terminal Dimensions (mm) *3	 ø16.5 min. 50.8 max. 26 max. 16 min.								
Accessories (Supplied) *4	End Plate, Dust Cover, Marking Strip are supplied. (Note) Marking Strip Fastener (BNM3) is not necessary.								

*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

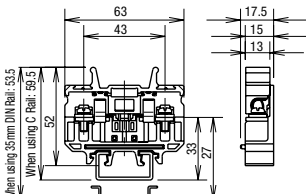
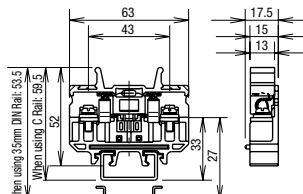
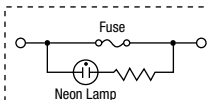
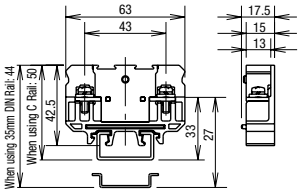
*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

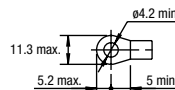
*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*4: See **G-025** for details on accessories.

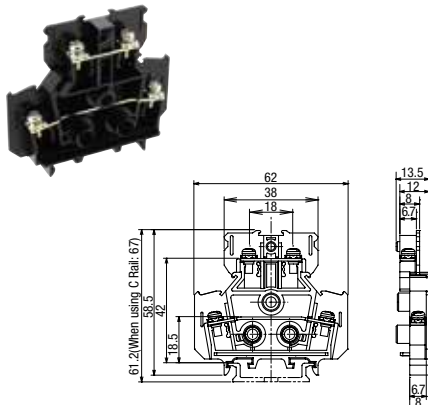
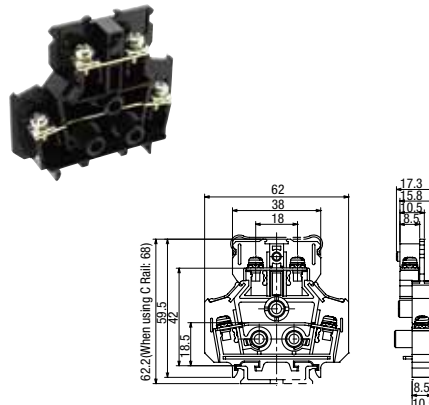
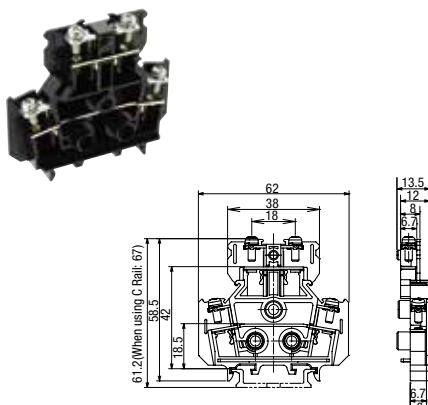
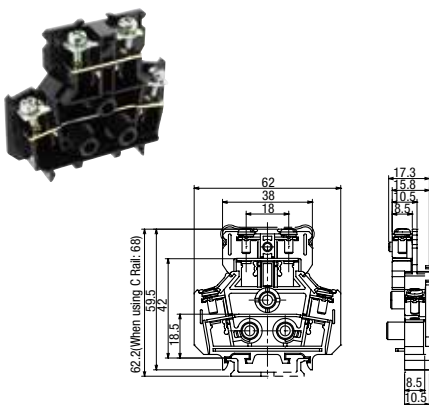
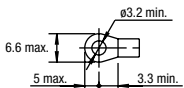
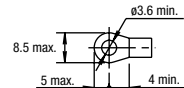
Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.

BN-W / BNH-W Series Terminal Blocks

Screw-in Terminal with Fuse	BNF10S-□A	10A	M4	BNF10N-□A (With Lamp)	10A	M4	BNT20	20A	M4	
	    Fuse Ratings - Rated Voltage: 250V - Rated Current: 1, 3, 5A - Cartridge Fuse: JIS C 6575-2 6.35×31.8 mm or 6.40×30.0 mm - Part No.: BNF10S-1A, BNF10S-3A, BNF10S-5A - Cartridge used: FGB1 by FUJI Terminal Industry Co., Ltd. Notes: UL/CSA approved products shown below are not supplied with fuses. When UL/CSA approval is required for fuse terminal blocks, use UL/CSA-rated fuses. - Part No.: BNF10SW - Rated Insulation Voltage: 600V - Rated Current: 10A - Applicable Wire: 18-10 AWG - UL File No.: E78117 - CSA File No.: LR64803			    • Internal Connection  Notes: Neon lamp turns on when the fuse blows. For the neon lamp to turn on, the volt-ages must be from 100 to 250V AC. Fuse Ratings - Rated Voltage: 250V - Rated Current: 1, 3, 5A - Cartridge Fuse: JIS C 6575-2 6.35×31.8mm or 6.40×30.0mm - Part No.: BNF10N-1A, BNF10N-3A, BNF10N-5A Note: 6.4×30.0mm fuse can also be used. Notes: UL/CSA approved products shown below are not supplied with fuses. When UL/CSA approval is required for fuse terminal blocks, use UL/CSA-rated fuses. - Part No.: BNF10NW - Rated Insulation Voltage: 300V - Rated Current: 10A - Applicable Wire: 18-10 AWG - UL File No.: E78117 - CSA File No.: LR64803			    Notes: - Rated Current: 20A - This terminal block cannot be used as a disconnect switch. - When switching on/off, make sure that voltage is not applied. ON OFF Terminal Screw Terminal Screw			
Quantity	20			20			Quantity	20		
Weight (Approx.)	34g			34g			Weight (Approx.)	36g		

Standards		JIS		JIS	
Specification / Ratings	Insulation Voltage	600V		600V	
	Wire Size	5.5 mm ²		5.5 mm ²	
	Rated Current	10A max. (depends on fuse rating)		20A	
	Terminal Screw	M4		M4	
	Crimping Terminal	1.25-4 to 5.5-4		1.25-4 to 5.5-4	
	Max. No. of Crimping Terminals	2		2	
Tightening Torque		1.4 to 2.0 N·m		1.4 to 2.0 N·m	
Crimping Terminal Dimensions (mm)					
Accessories *1	End Plate	BNE20			
	Dust Cover	—		BNC520	
	Marking Strip	—		PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725, BNM725-TK1700	
	DIN Rail/End Clip			Aluminum: BAA1000, Steel: BNL6	
	C Rail/End Clip			Aluminum: BNCA1000, Steel: BNL7	
	DIN+C Rail/End Clip			Aluminum: BNJA1000, Steel: BNL6/BNL7	

*1: See G-025 for details on accessories.

Double-Deck Terminal Block	Screw-in Terminal	Part No.	BND15W		16A	M3	BND15LW		21A	M3.5
		Dimensions								
		Quantity	25					25		
		Weight (Approx.)	16g					23g		
		Part No.	BNDH15W		16A	M3	BNDH15LW		21A	M3.5
	Touch-Down Terminal	Dimensions								
		Quantity	25					25		
		Weight (Approx.)	17g					26g		
		Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	
		Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V	
Wire Size	22-14 AWG		2 mm ² (22-14 AWG)	1.25 mm ² (*1) (2 mm ² max)	22-14 AWG	2 mm ² (22-14 AWG)	2 mm ²			
Rated Current *2	10A		22A	16A	15A	22A	21A			
Terminal Screw	M3			M3.5						
Crimping Terminal	1.25-3 (2-3)			2-3.5						
Max. No. of Crimping Terminals	2			2						
Tightening Torque		0.6 to 1 N·m			1 to 1.3 N·m					
Crimping Terminal (mm) *3										
Accessories *4	End Plate	BNDE15W/BNDE15W2			BNDE15LW/BNDE15LW2					
	Dust Cover	Upper Deck: BNC230, Lower Deck: BNC240								
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725, BNM725-TK1700								
	Marking Strip Fastener	BNM3								
	Surface Mounting Clip	BNDL2								
	Connecting Rod/ Connecting Nut	Connecting Rod: BNR1, BNR2, Connecting Nut: BNN1								
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BNL6								
C Rail/End Clip		Aluminum: BNCA1000, Steel: BNL7								
DIN+C Rail/End Clip		Aluminum: BNJA1000, Steel: BNL6/BNL7								

*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

*2: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*4: See **G-025** for details on accessories.

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

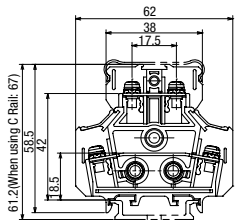
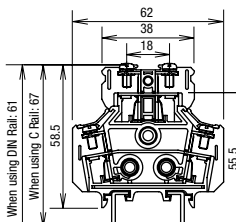
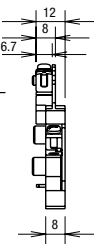
Controllers

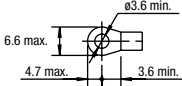
Operator Interfaces

Sensors

AUTO-ID

BN

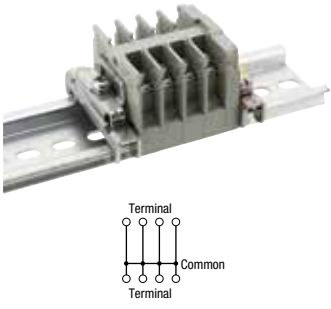
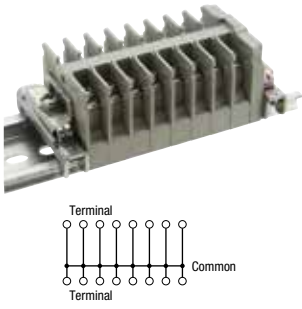
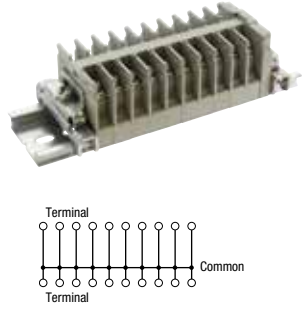
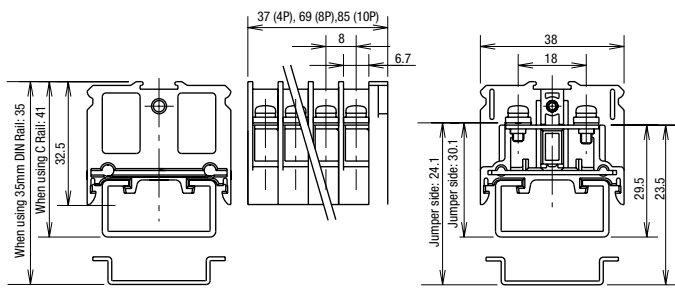
Double-Deck Terminal Block	Screw-in Terminal	Part No.	BND15WT		21A	M3.5
		Dimensions	  			
		Quantity	25			
		Weight (Approx.)	17g			
	Touch-Down Terminal	Part No.	BNDH15WT		21A	M3.5
		Dimensions	  			
		Quantity	25			
		Weight (Approx.)	17g			

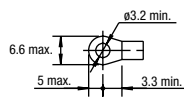
Standards		UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V
	Wire Size	22-14 AWG	2mm ² (22-14 AWG)	2 mm ²
	Rated Current *1	15A	22A	21A
	Terminal Screw	M3		
	Crimping Terminal	1.25-3.5 to 2-3.5		
	Max. No. of Crimping Terminals	2		
	Tightening Torque	1.0 to 1.3 N·m		
Crimping Terminal (mm) *2				
Accessories *3	End Plate	BNDE15W/BNDE15W2		
	Dust Cover	Upper Deck: BNC230, Lower Deck: BNC240		
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725, BNM725-TK1700		
	Marking Strip Fastener	BNM3		
	Surface Mounting Clip	BNDL2		
	Connecting Rod/ Connecting Nut	Connecting Rod: BNR1, BNR2, Connecting Nut: BNN		
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BNL6		
	C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL7		
DIN+C Rail/End Clip		Aluminum: BNJA1000, Steel: BNL6/BNL7		

*1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.

*2: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

*3: See **G-025** for details on accessories.

Common Terminal Screw-in Terminal	Part No.	BN15MC4 16A (common current) M3	BN15MC8 16A (common current) M3	BN15MC10 16A (common current) M3
	No. of Poles	4	8	10
	Shape			
	Dimensions			
	Quantity	10	10	10
	Weight (Approx.)	30g	57g	70g
	Color	Light Gray	Light Gray	Light Gray

Standards		JIS
Specification / Ratings	Insulation Voltage	600V
	Wire Size	1.25 mm ² (2 mm ² max.)
	Rated Current	16A/Common Current
	Terminal Screw	M3
	Crimping Terminal	1.25-3 (2-3)
	Max. No. of Crimping Terminals	2
	Tightening Torque	0.6-1.0 N·m
Crimping Terminal Dimensions (mm)		
Accessories *5	End Plate	Supplied
	Dust Cover	BNC230
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725, BNM725-TK1700
	Marking Strip Fastener	BNM3
	DIN Rail / End Clip	Aluminum: BAA1000, Steel: BNL6
	C Rail / End Clip	Aluminum: BNCA1000, Steel: BNL7
	DIN+C Rail / End Clip	Aluminum: BNJA1000, Steel: BNL6/BNL7

*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

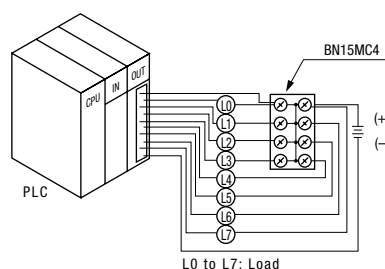
*2: Do not remove the built-in common jumper. Common terminal type terminal blocks cannot be disassembled.

*3: Make sure that all terminal screws are tightened to an appropriate tightening torque before power is applied.

*4: Specifications are in compliance with JIS C 8201-7-1.

*5: See **G-025** for details on accessories.

Application Example



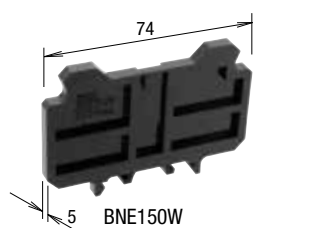
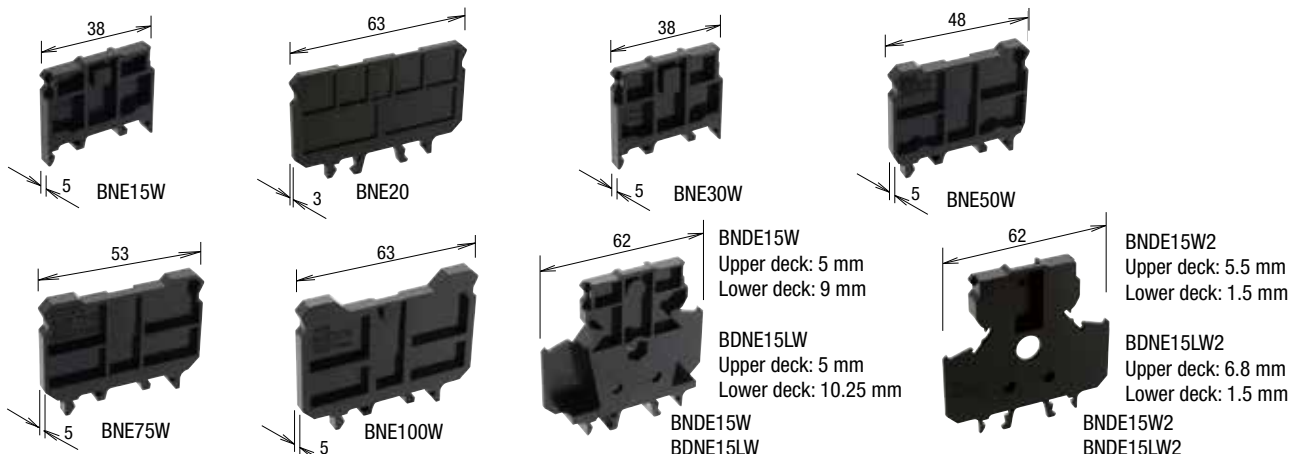
Features

- All terminals are short-circuited by a built-in common jumper. External jumpers are not required.
- Accessories (marking strip, cover, and rails) are compatible with standard types.
- Common terminal type terminal blocks can be combined with other standard types as they are identical in shape and in size as BN15MW.
- Color: Light Gray

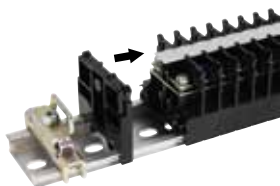
Accessories (End Plate / Rail)

End Plates

Used for ends of terminal blocks. Also used to hold the marking strips in place.



Securing a marking strip with the end plate

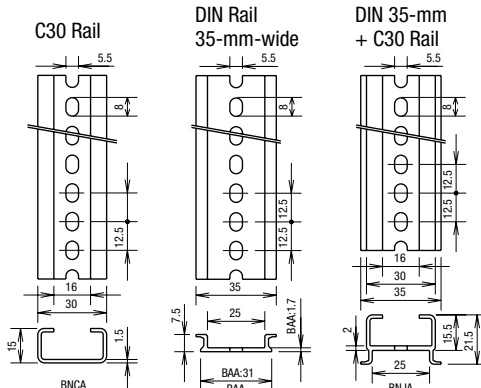
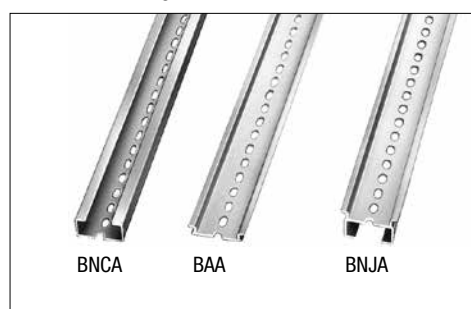


	Part No.	Applicable Terminal Blocks	Thickness (mm)	Weight (Approx.)	Quantity
End Plate	BNE15W	BN10W, BNH10W BN15MW, BNH15MW BN15LW, BNH15LW BN15MWT, BNH15MWT BN15LWT, BNH15LWT	5.0	4g	10
	BNE20	BNT20, BNF10S, BNF10N	3.0	8g	
	BNE30W	BN30W, BNH30W	5.0	4g	
	BNE50W	BN50W, BNH50W	5.0	6g	
	BNE75W	BN75W	5.0	6g	
	BNE100W	BN100W	5.0	9g	
	BNE150W	BN150W, BN150NW	5.0	10g	
	BNDE15W	BND15W, BND15WT, BNDH15W, BNDH15WT	Upper deck: 5.0 Lower deck: 9.0	5.5g	
	BNDE15LW	BND15LW, BNDH15LW	Upper deck: 5.0 Lower deck: 10.25	6g	
End Plate for Securing End Plate	BNDE15W2	BND15W, BND15WT, BNDH15W, BNDH15WT	Upper deck: 5.5 Lower deck: 1.5	5.5g	
	BNDE15LW2	BND15LW, BNDH15LW	Upper deck: 6.8 Lower deck: 1.5	6g	

Note: BNDE15W2 and BNDE15LW2 are end plates used for securing marking strips at the end of double deck terminal blocks.

Rails

Rails for mounting terminal blocks. Available in three styles.



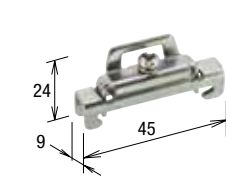
Approvals:
IEC60715
JIS C 2812

Length	Part No.	Material	Weight (Approx.)	Quantity
1000 mm	BNCA1000	Aluminum	260g	10
	BAA1000	Aluminum	200g	10
	BNJA1000	Aluminum	340g	10

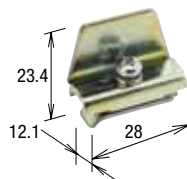
Accessories (End Clip / Rail Mounting Clip / Dust Cover)

End Clips

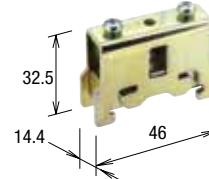
Used to secure the ends of the terminal blocks assembled on the rail.



BNL6 (M4 Screw)
Tightening torque: 1.1 N·m



BNL7 (M4 Screw)



BNL8 (M4 Screw) (*3)

- Material: Steel
- Plating: Trivalent zinc chromate

Part No.	Rails	For Terminal Blocks up to BND and BN□40	For BN□50 and BN□75	For Terminal Blocks BN□100 and larger	Weight (Approx.)	Quantity
BNL6	BAA	×	× (*2)	—	15.2g	10
BNL7	BNCA, BNCP, BNJA	×	× (*2)	—	16g	10
BNL8	BAA, BNCA, BNCP, BNJA	— (*1)	×	×	56g	10

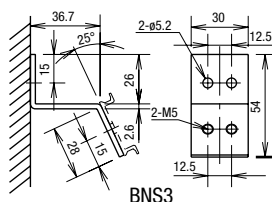
*1: Do not use BNL8 because the insulation distance will be insufficient if used.

*2: We recommend you to use BNL8 for secure hold.

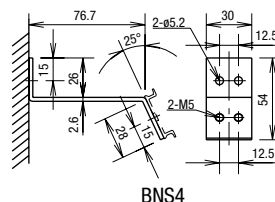
*3: Slide the end clip onto the DIN rail.

Rail Mounting Clips

Used to raise the DIN rail from the panel surface.



BNS3



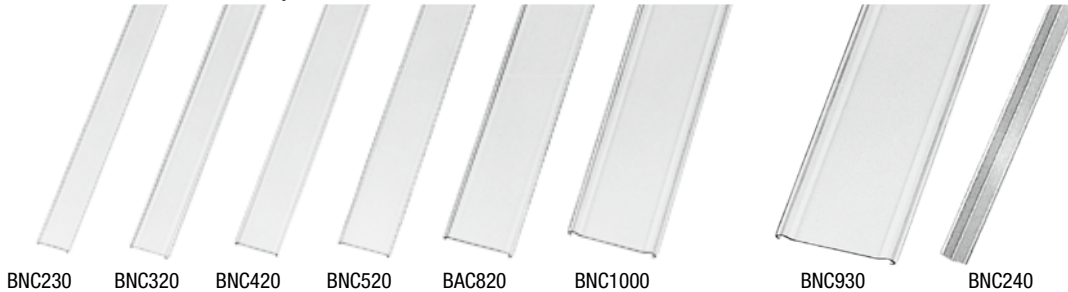
BNS4

Part No.	Weight (Approx.)	Quantity
BNS3	51.3g	10
BNS4	76.2g	10

- Material: Steel
- Plating: Trivalent zinc chromate

Dust Cover

Material: Polycarbonate



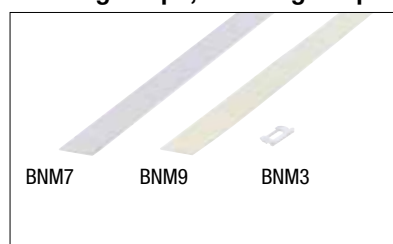
Length	Width (mm)	Part No.	Terminal Blocks (□: No. of Poles)	Weight (Approx.)	Quantity
1m	39.6	BNC230	BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W, BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT	56g	10
	49.6	BNC320	BN50W, BNH50W	64g	10
	54.6	BNC420	BN75W	72g	10
	65	BNC520	BN150W, BN150NW, BNT20, BN100W	96g	10
	82	BAC820	BN200BW□(K), BN200NW□(K)	204g	10
	96	BNC910	BN300BW□(K), BN300NW□(K)	222g	10
	110	BNC1000	BN400BW□(K), BN400NW□(K)	256g	10
	145	BNC930	BN500BW□(K), BN500NW□(K), BN600NW□(K)	310g	10

Dust Covers for Double Deck Terminal Blocks

Length	Part No.	Terminal Block	Weight (Approx.)	Quantity
1m	Upper Deck BNC230	BND15W, BNDH15W, BND15LW, BNDH15LW, BND15WT, BNDH15WT	56g	10
	Lower Deck BNC240		15g	10

Accessories (Marking Strips / Marking Strip Fastener / Slide Marking Strip)

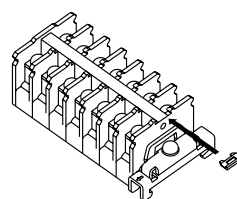
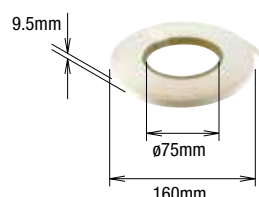
Marking Strips, Marking Strip Fastener



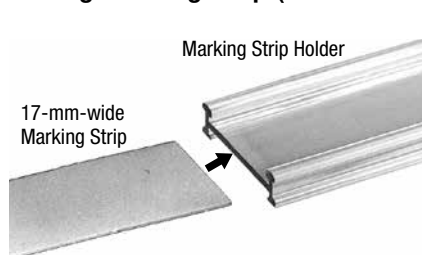
Item	Part No.	Weight (approx.)	Quantity	Specification
Marking Strip	BNM7	7.2g	10	PVC (glossy surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM9	6.4g	10	Fiber glass (matte surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM725-TK1700	—	1	PVC (glossy surface) 25 m × 9.5 mm × 0.5 mm
	BNM725	—	1	PVC (matte surface) 25 m × 9.5 mm × 0.5 mm
Marking Strip Fastener	BNM3	0.1g	50	

Note: BNM7, BNM725-TK1700 (slick surface) recommended when printing using printers.

- To install the marking strip fastener



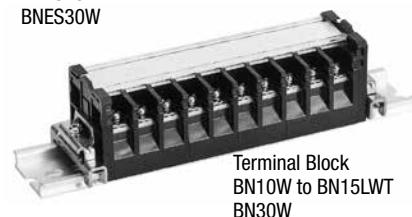
Sliding Marking Strip (BN10W to BN30W)



17-mm-wide marking strip

- Both top and bottom sides of the marking strip holder can be used.

End plate (Thickness 5 mm)
BNES15W
BNES30W



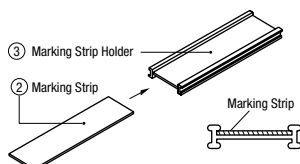
Terminal Block
BN10W to BN15LWT
BN30W

Item	Part No.	Terminal Blocks	Specification	Quantity
① End Plate	BNES15W	BN10W to BN15LWT	For sliding marking strip	10
	BNES30W	BN30W	For sliding marking strip	10
② Marking Strip	BNM5	BN10W to BN15LWT BN30W	PVC (Note)	10
③ Marking Strip Holder	BNMH1		1m	10
④ Dust Cover	BNCS230		1m	10

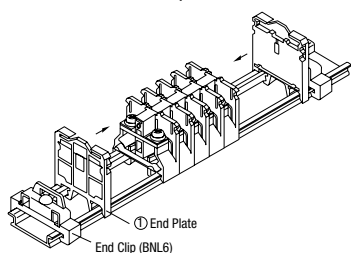
Note: Length 1000 mm × Width 9.5 mm × Thickness 0.5 mm

Installing the Sliding Marking Strip

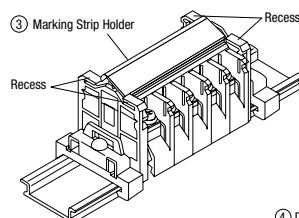
1. Insert the marking strip into the groove of the top of the marking strip holder.



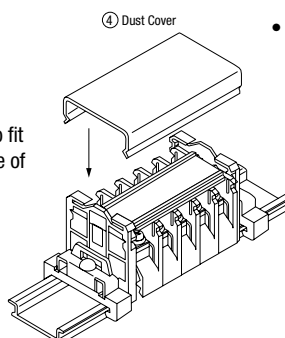
2. Installing the end plate
Attach the end plates to the terminal blocks and secure with end clips.



3. Insert the marking strip holder into the recess of the end plate.

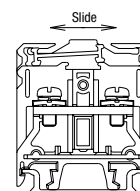


4. Press the dust cover to fit onto the bottom groove of the end plate.



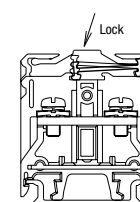
Movement

- Sliding movement of the marking strip holder



When sliding the marking strip holder, slide by holding both edges of the holder.

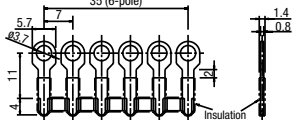
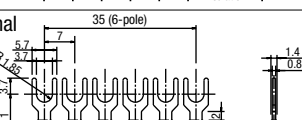
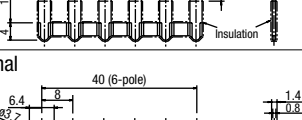
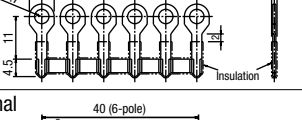
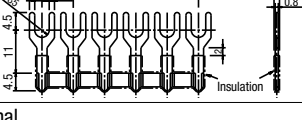
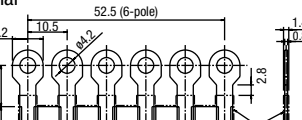
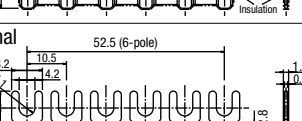
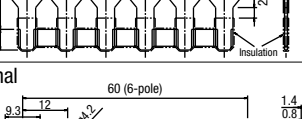
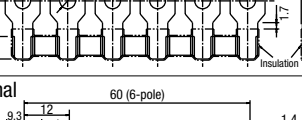
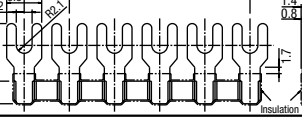
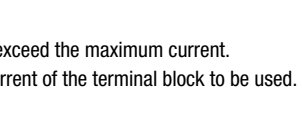
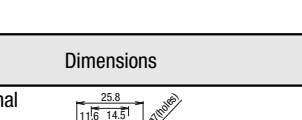
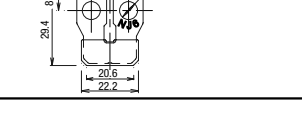
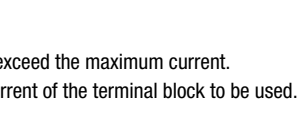
- To lock the marking strip holder



To lock the marking strip holder, lock by holding both edges of the holder.

Accessories (Jumper)

Jumpers for 6 Poles (Material: Brass, Plating: Nickel-plated, Insulation: PVC)

Part No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Weight (Approx.)	Quantity
BNJ16	7 mm	Without	Ring Terminal 	10A	BN10W BNH10W	2.8g	10
BNJ16B		With					10
BNJ16F		Without	Fork Terminal 				10
BNJ16FB		With					10
BNJ26W	8 mm	Without	Ring Terminal 	20A	BN15MW BNH15MW BN15MWT BNH15MWT BND15W BND15WT BNDH15WT	3.1g	10
BNJ26WB		With					10
BNJ26FW		Without	Fork Terminal 				10
BNJ26FWB		With					10
BNJ46	10.5 mm	Without	Ring Terminal 	20A	BN15LW BNH15LW BN15LWT BNH15LWT BND15LW BNDH15LW	4.6g	10
BNJ46B		With					10
BNJ46F		Without	Fork Terminal 				10
BNJ46FB		With					10
BNJ56	12 mm	Without	Ring Terminal 	30A	BN30W BNH30W	3.2g	10
BNJ56B		With					10
BNJ56F		Without	Fork Terminal 				10
BNJ56FB		With					10

- Insulation color: Black, Insulation material: PVC

Note 1: Ensure that the total current to the jumper does not exceed the maximum current.

Note 2: Ensure that the current does not exceed the rated current of the terminal block to be used.

Jumper for 2 poles

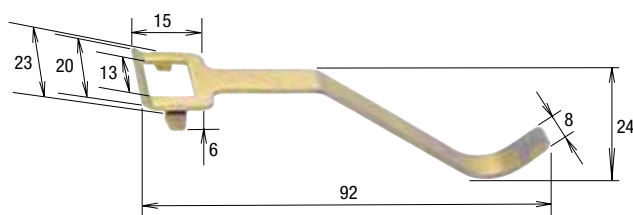
Part No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Quantity
BNJ62	14.5 mm	Without		80A	BN50W BNH50W	10
BNJ62B		With				

- Material: nickel-coated brass
- Sheath: PVC

Note 1: Ensure that the total current to the jumper does not exceed the maximum current.

Note 2: Ensure that the current does not exceed the rated current of the terminal block to be used.

Accessories (Removal Tool)



A tool for removing terminal blocks from the DIN rail.

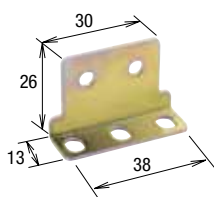
Part No.	Weight (Approx.)	Quantity
BND2	8.6g	1

- Material: Steel
- Plating: Zinc

Note: Cannot be used for terminal blocks other than BN10W, BNH10W, BN15MW, BNH15MWT, BN15LW, BNH15LW, BN15LWT, BNH15LWT, BN30W, and BNH30W.

Accessories for BND Double-Deck Terminal Blocks

Surface Mounting Clip



Part No.	Applicable Terminal Block	Weight (Approx.)	Quantity
BNDL2	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	14.3g	10

- Material: Steel
- Plating: Zinc

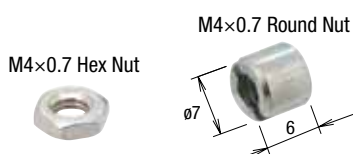
Connecting Rods



Part No.	Applicable Terminal Block	Weight (Approx.)	Dimensions (mm)	Quantity
BNR1	BND15W, BNDH15W BND15WT, BNDH15WT	21g	265 mm (M4x0.7)	10
BNR2	BND15LW, BNDH15LW	43g	500 mm (M4x0.7)	10

- Material: Steel
- Plating: Zinc

Connecting Nuts



Part No.	Applicable Terminal Block	Weight (Approx.)	Quantity
BNN1	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	14g	100 (pairs of both nuts)

- Material: Steel
- Plating: Zinc

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BN

Calculating Rail Lengths and Mounting Centers

• BNCA, BAA, and BNJA Rails

$$L_1 = 12.5 \times N$$

$$L_2 = L_1 - 25$$

Note: This formula is for calculating the maximum rail length including tolerance. Depending on the combination of terminal blocks, the required rail length may be shorter than the calculated value, particularly when many terminal blocks are combined.

N: Rounded up numerical number from the calculated value of M. (Example: N for 19.1 is 20)

$$M = \frac{(A + 0.1)n + B + C}{12.5}$$

A: Thickness of each terminal block

B: Thickness of end plate

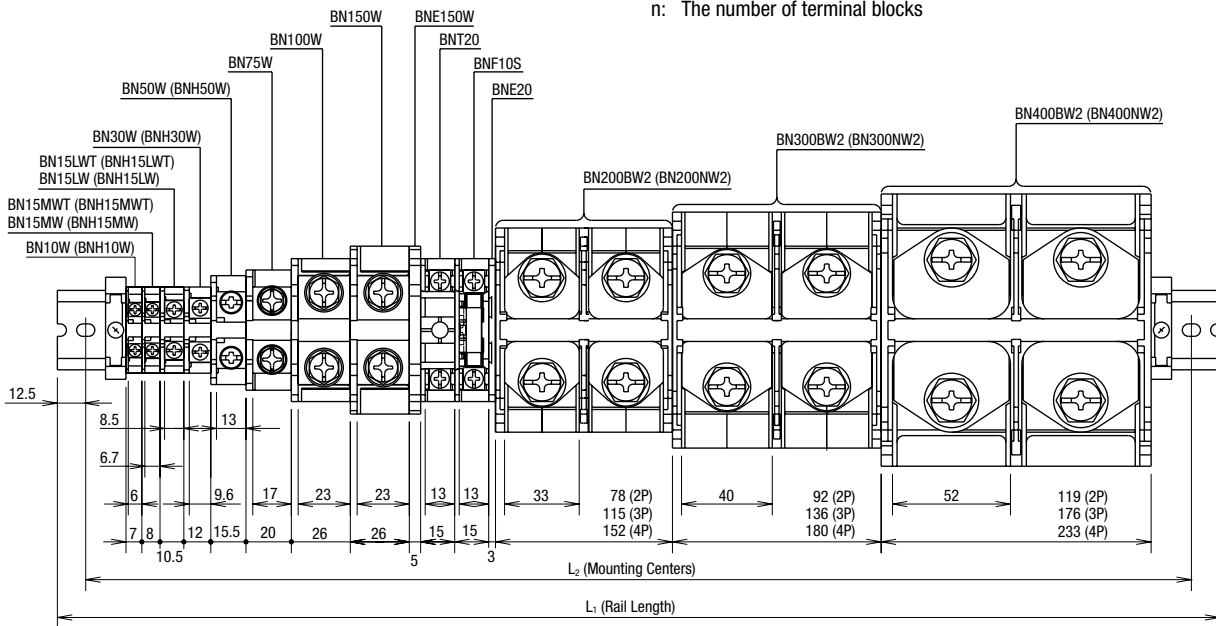
C: Thickness of end clip when using 2 pieces of:

BNL6 = 56.0 mm

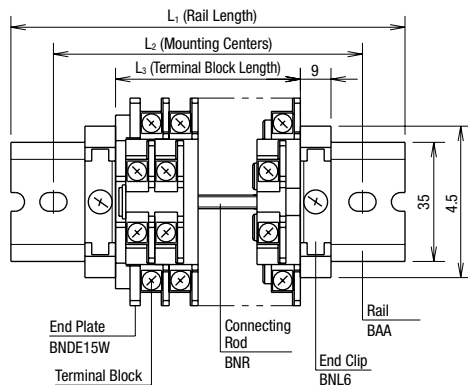
BNL7 = 62.5 mm

BNL8 = 67.0 mm

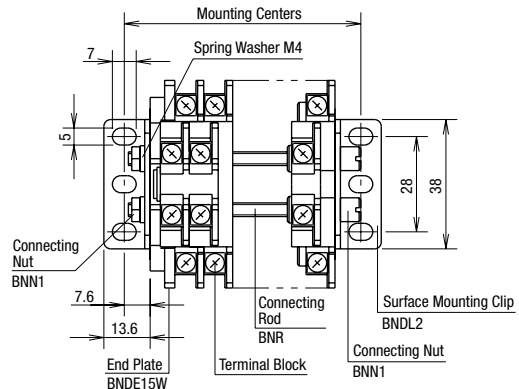
n: The number of terminal blocks



Rail Length (Double-Deck)



Mounting Centers (Double-Deck)



Calculating the length (mm)

Part No.	BND15W BNDH15W BND15WT	BND15LW BNDH15LW
L1 (*1)	$12.5 \times N$	
L2 (*1)	$L_1 - 25$	
L3 (*1, *2)	$8 \times n + 9$	$10.5 \times n + 10.3$
Connecting Rod Length (*1, *2)	$8 \times n + 8.7$	$10.5 \times n + 10$

N: Rounded up numerical number from the calculated value of M.
(Example: N for 19.1 is 20)

For BND15W, BNDH15W, BND15WT

For BND15LW, BNDH15LW

$$M = \frac{(8 \times n + 9 + 62.5)}{12.5}$$

$$M = \frac{10.5 \times n + 10.3 + 62.5}{12.5}$$

Calculating the length (mm)

Part No.	BND15W BNDH15W BND15WT	BND15LW BNDH15LW
Mounting Centers (*1, *2)	$8 \times n + 24.2$	$10.5 \times n + 25.5$
Connecting Rod Length (*1, *2)	$8 \times n + 20.2$	$10.5 \times n + 21.5$

n: The number of terminal blocks

*1: This formula is for calculating the maximum rail length including tolerance. Depending on the combination of terminal blocks, the required rail length may be shorter than the calculated value, particularly when many terminal blocks are combined.

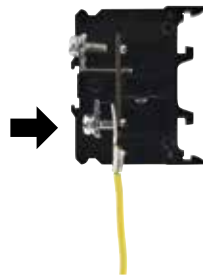
*2: The length will be 1.5 mm longer when end plates BNDE15W2 and BNDE15LW2 are used.

Instructions

How to Use Touch-Down Terminals



1. With the terminal screws in the up position, insert a ring crimping terminal.



2. Push down the head of the screw lightly to hold the crimping terminal.

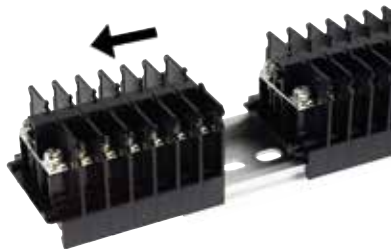


3. When the wiring is in position, tighten all the screws simultaneously.

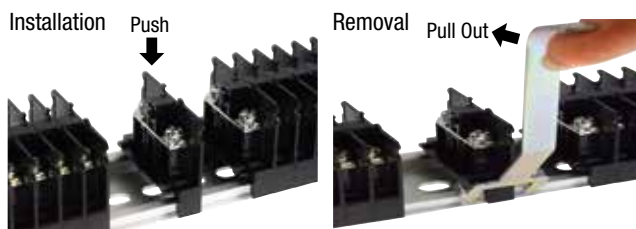


4. To remove the wiring, loosen the screw and lightly push up.

Installation and Removal on Rails



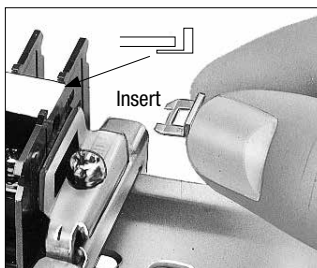
Additional Installation and Removal (on DIN Rail)



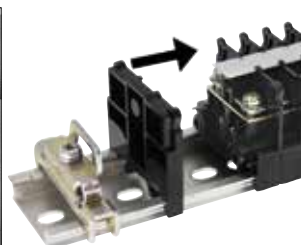
Notes: The following terminal blocks can be added or removed:
BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W,
BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT

Securing the Ends of the Marking Strip

The ends of the marking strip can be secured with a marking strip fastener (or end plate).



To Secure the Marking Strip

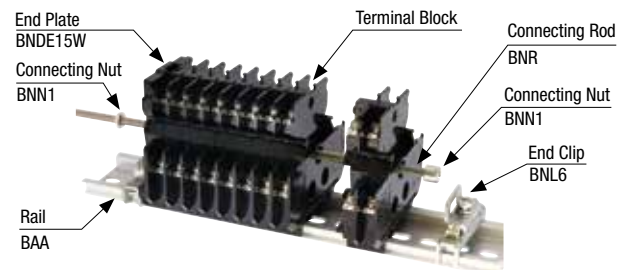


Installing End Plate

For double-deck, use an end plate to secure marking strips (BNDE15W2, BNDE15LW2).

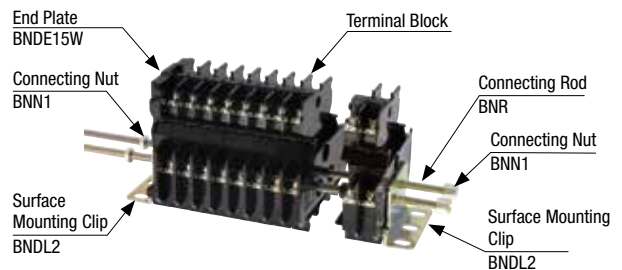
Installation of Double-Deck Terminal Blocks (BND)

Rail Mount (photo: when using BND15W, BNDH15W, BNDE15W)



1. Install end plate. Then mount the terminal blocks onto the DIN rail.
2. Insert connecting rod (BNR) through each hole of the terminal blocks.
3. Secure the ends of the connecting rods with connecting nuts (BNN1).
4. To prevent side-to-side movement on the DIN rail, use the BNL6 end clips at both ends of the rail.

Surface Mount (photo: when using BND15W, BNDH15W, BNDE15W)



1. Assemble a row of terminal blocks with end plates on exposed ends.
2. Use BNDL2 mounting clips at both ends of a row.
3. With the two holes of the mounting clip (BNDL2) aligned with the terminal block holes, insert a connecting rod (BNR) through each hole.
4. Secure the ends of the connecting rods with the connecting nuts (BNN1).

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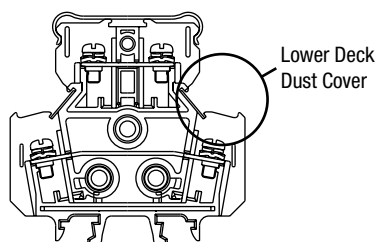
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Instructions

Dust Covers on the Lower Deck Terminal of Double-Deck Terminal Blocks

Installing Dust Covers on Lower Deck Terminals

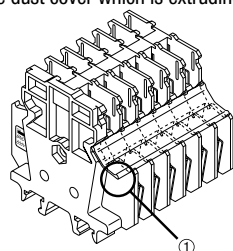


1. Press the lower end of the dust cover into the groove.
2. With the lower end of the dust cover pressed into the groove, push in the top end in the direction of the arrow.

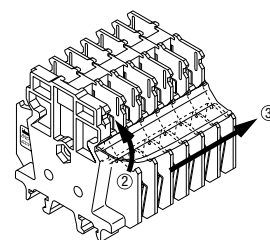
Removing Dust Covers from Lower Deck Terminals

Turn the power off before removing the dust cover.

1. Hold the end of the dust cover which is extruding from the end plate.

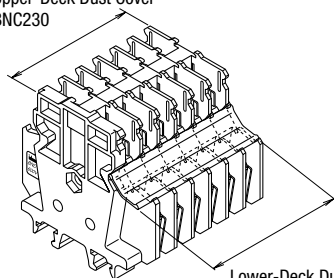


2. Lift up in the direction of the arrow.
3. If the dust cover cannot be removed all at once, place fingers between the terminal block and dust cover, and slowly remove the dust cover.



Length of Double-Deck Dust Covers

Upper-Deck Dust Cover
BNC230



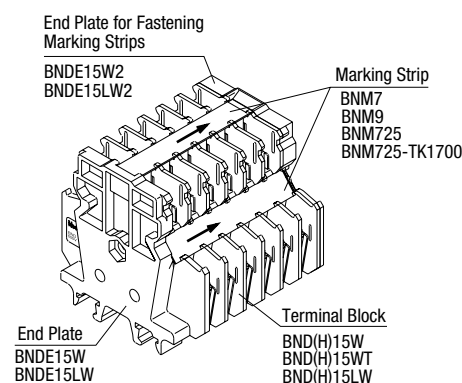
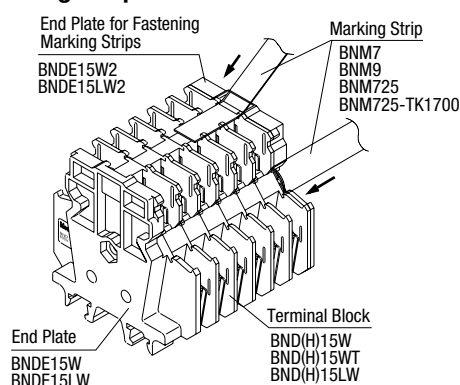
Lower-Deck Dust Cover
BNC240

Cut required length depending on the number of terminal blocks used. (Length in mm)

Terminal Block	Dust Cover	1-pole	2-pole	3-pole	4-pole	5-pole	6-pole	7-pole	8-pole	n-pole
BND(H)15W BND(H)15WT	Upper Deck	12	20	28	36	44	52	60	68	8 (n+1) - 4
	Lower Deck	16	24	32	32	48	56	64	72	8 (n+1)
BND(H)15LW	Upper Deck	16	26.5	37	47.5	58	68.5	79	89.5	10.5 (n+1) - 5
	Lower Deck	21	31.5	42	52.5	63	73.5	84	94.5	10.5 (n+1)

Securing Marking Strip with Marking Strip Fasteners for Double-Deck Terminal Blocks

Because marking strips can be secured without using marking strip fasteners, installation time can be shortened. Also, marking strips can be inserted and removed after installation.



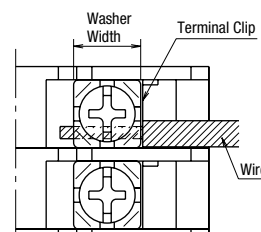
Notes on Wiring

Crimping Terminals

- When using crimping terminals, be sure to use insulated terminals to prevent electric shocks.

Without Crimping Terminals

- Insert the wire until the insulation comes into contact with the terminal metal part.
- Strip the insulation so that the wire is longer than the width of the wire clamp.
- When connecting two wires, use wires of the same size.



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Thank you for using IDEC Products.

By purchasing products listed in our catalogs, datasheets, and the like (hereinafter referred to as "Catalogs") you agree to be bound by these terms and conditions. Please read and agree to the terms and conditions before placing your order.

1. Notes on contents of Catalogs

- (1) Rated values, performance values, and specification values of IDEC products listed in this Catalog are values acquired under respective conditions in independent testing, and do not guarantee values gained in combined conditions.
Also, durability varies depending on the usage environment and usage conditions.
- (2) Reference data and reference values listed in Catalogs are for reference purposes only, and do not guarantee that the product will always operate appropriately in that range.
- (3) The specifications / appearance and accessories of IDEC products listed in Catalogs are subject to change or termination of sales without notice, for improvement or other reasons.
- (4) The content of Catalogs is subject to change without notice.

2. Note on applications

- (1) If using IDEC products in combination with other products, confirm the applicable laws / regulations and standards.
Also, confirm that IDEC products are compatible with your systems, machines, devices, and the like by using under the actual conditions. IDEC shall bear no liability whatsoever regarding the compatibility with IDEC products.
- (2) The usage examples and application examples listed in Catalogs are for reference purposes only. Therefore, when introducing a product, confirm the performance and safety of the instruments, devices, and the like before use. Furthermore, regarding these examples, IDEC does not grant license to use IDEC products to you, and IDEC offers no warranties regarding the ownership of intellectual property rights or non-infringement upon the intellectual property rights of third parties.
- (3) When using IDEC products, be cautious when implementing the following.
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 - ii. Safety design, including redundant design and malfunction prevention design that prevents other danger and damage even in the event that an IDEC product fails
 - iii. Wiring and installation that ensures the IDEC product used in your system, machine, device, or the like can perform and function according to its specifications
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 - ii. Use in applications that require a high degree of reliability, such as provision systems for gas / waterworks / electricity, etc., systems that operate continuously for 24 hours, and settlement systems
 - iii. Use in applications where the product may be handled or used deviating from the specifications or conditions / environment listed in the Catalogs, such as equipment used outdoors or applications in environments subject to chemical pollution or electromagnetic interference
If you would like to use IDEC products in the above applications, be sure to consult with an IDEC sales representative.

3. Inspections

We ask that you implement inspections for IDEC products you purchase without delay, as well as thoroughly keep in mind management/maintenance regarding handling of the product before and during the inspection.

4. Warranty

(1) Warranty period

The warranty period for IDEC products shall be one (1) year after purchase or delivery to the specified location. However, this shall not apply in cases where there is a different specification in the Catalogs or there is another agreement in place between you and IDEC.

(2) Warranty scope

Should a failure occur in an IDEC product during the above warranty period for reasons attributable to IDEC, then IDEC shall replace or repair that product, free of charge, at the purchase location / delivery location of the product, or an IDEC service base. However, failures caused by the following reasons shall be deemed outside the scope of this warranty.

- i. The product was handled or used deviating from the conditions / environment listed in the Catalogs
- ii. The failure was caused by reasons other than an IDEC product
- iii. Modification or repair was performed by a party other than IDEC
- iv. The failure was caused by a software program of a party other than IDEC
- v. The product was used outside of its original purpose
- vi. Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and Catalogs
- vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from IDEC
- viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters)

Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

- (1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
- (2) Maintenance inspections, adjustments, and repairs
- (3) Technical instructions and technical training
- (4) Product tests or inspections specified by you

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