Aluminum Clear/Black Pre-Insulated Power Bars Double-Sided Conductor Entry

Type IPB-D/Type IPBB-D

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 194°F

Wide conductor range: 750 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Multiple conductor conÿgurations: 2 through 14 position

- Choose the right connector for the application

Double sided conÿguration allows conductors to be installed from either side of connector

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RoHS COMPLIANT

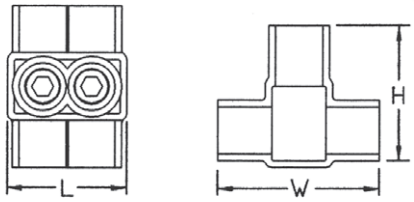
Suitable for use in panelboards, cable trays, raceways, ducts and troughs

Pre-ÿlled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with high dielectric strength plastisol

- Black insulation is UV resistant
- Clear insulation allows for visual confirmation that conductor is properly inserted
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



DOUBLE SIDED ENTRY

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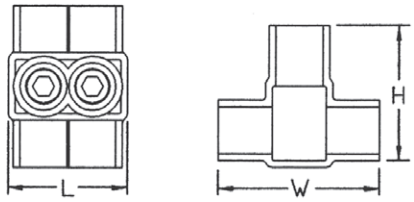
RoHS COMPLIANT

CLEAR PART NO.	BLACK PART NO.	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
				L	W	H	
IPB-NA4-2D	IPBB-NA4-2D	2	4 Str - 14 Sol.	1.39	1.5	1.25	1/8
IPB-NA4-3D	IPBB-NA4-3D	3		1.99	1.5	1.25	
IPB-NA4-4D	IPBB-NA4-4D	4		2.59	1.5	1.25	
IPB-NA4-5D	IPBB-NA4-5D	5		3.19	1.5	1.25	
IPB-NA4-6D	IPBB-NA4-6D	6		3.79	1.5	1.25	
IPB-NA4-8D	IPBB-NA4-8D	8		4.99	1.5	1.25	
IPB-NA4-10D	IPBB-NA4-10D	10		6.19	1.5	1.25	
IPB-NA4-12D	IPBB-NA4-12D	12		7.39	1.5	1.25	
IPB-NA4-14D	IPBB-NA4-14D	14		8.59	1.5	1.25	
IPB-NA2/0-2D	IPBB-NA2/0-2D	2	2/0 Str - 14 Sol.	1.64	1.56	1.38	3/16
IPB-NA2/0-3D	IPBB-NA2/0-3D	3		2.37	1.56	1.38	
IPB-NA2/0-4D	IPBB-NA2/0-4D	4		3.09	1.56	1.38	
IPB-NA2/0-5D	IPBB-NA2/0-5D	5		3.82	1.56	1.38	
IPB-NA2/0-6D	IPBB-NA2/0-6D	6		4.54	1.56	1.38	
IPB-NA2/0-8D	IPBB-NA2/0-8D	8		5.99	1.56	1.38	
IPB-NA2/0-10D	IPBB-NA2/0-10D	10		7.44	1.56	1.38	
IPB-NA2/0-12D	IPBB-NA2/0-12D	12		8.89	1.56	1.38	
IPB-NA2/0-14D	IPBB-NA2/0-14D	14		10.34	1.56	1.38	



DOUBLE SIDED ENTRY

Type IPB-D/Type IPBB-D (continued)

CLEAR PART NO.	BLACK PART NO.	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
				L	W	H	
IPB-NA250-2D	IPBB-NA250-2D	2	250 kcmil - 10 Sol.	2.15	2.63	2.13	5/16
IPB-NA250-3D	IPBB-NA250-3D	3		3.15	2.63	2.13	
IPB-NA250-4D	IPBB-NA250-4D	4		4.15	2.63	2.13	
IPB-NA250-5D	IPBB-NA250-5D	5		5.15	2.63	2.13	
IPB-NA250-6D	IPBB-NA250-6D	6		6.15	2.63	2.13	
IPB-NA250-8D	IPBB-NA250-8D	8		8.15	2.63	2.13	
IPB-NA250-10D	IPBB-NA250-10D	10		10.15	2.63	2.13	
IPB-NA250-12D	IPBB-NA250-12D	12		12.15	2.63	2.13	
IPB-NA250-14D	IPBB-NA250-14D	14		14.15	2.63	2.13	
IPB-NA350-2D	IPBB-NA350-2D	2	350 kcmil - 10 Sol.	2.4	3	2.5	5/16
IPB-NA350-3D	IPBB-NA350-3D	3		3.53	3	2.5	
IPB-NA350-4D	IPBB-NA350-4D	4		4.65	3	2.5	
IPB-NA350-5D	IPBB-NA350-5D	5		5.78	3	2.5	
IPB-NA350-6D	IPBB-NA350-6D	6		6.9	3	2.5	
IPB-NA350-8D	IPBB-NA350-8D	8		9.15	3	2.5	
IPB-NA350-10D	IPBB-NA350-10D	10		11.4	3	2.5	
IPB-NA350-12D	IPBB-NA350-12D	12		13.65	3	2.5	
IPB-NA350-14D	IPBB-NA350-14D	14		15.9	3	2.5	
IPB-NA600-2D	IPBB-NA600-2D	2	600 kcmil - 4 Str.	2.8	3	2.75	3/8
IPB-NA600-3D	IPBB-NA600-3D	3		4.13	3	2.75	
IPB-NA600-4D	IPBB-NA600-4D	4		5.45	3	2.75	
IPB-NA600-5D	IPBB-NA600-5D	5		6.78	3	2.75	
IPB-NA600-6D	IPBB-NA600-6D	6		8.1	3	2.75	
IPB-NA600-8D	IPBB-NA600-8D	8		10.75	3	2.75	
IPB-NA600-10D	IPBB-NA600-10D	10		13.4	3	2.75	
IPB-NA600-12D	IPBB-NA600-12D	12		16.05	3	2.75	
IPB-NA600-14D	IPBB-NA600-14D	14		18.7	3	2.75	
IPB-NA750-2D	IPBB-NA750-2D	2	750 kcmil - 2 Str.	3.02	3.38	3	3/8
IPB-NA750-3D	IPBB-NA750-3D	3		4.46	3.38	3	
IPB-NA750-4D	IPBB-NA750-4D	4		5.89	3.38	3	
IPB-NA750-5D	IPBB-NA750-5D	5		7.33	3.38	3	
IPB-NA750-6D	IPBB-NA750-6D	6		8.76	3.38	3	
IPB-NA750-8D	IPBB-NA750-8D	8		11.63	3.38	3	
IPB-NA750-10D	IPBB-NA750-10D	10		14.5	3.38	3	
IPB-NA750-12D	IPBB-NA750-12D	12		17.37	3.38	3	
IPB-NA750-14D	IPBB-NA750-14D	14		20.24	3.38	3	

WARNING: Failure to achieve proper torque will result in connector and conductor overheating.

LISTED
c UL us
WIRE CONNECTOR

TIGHTENING TORQUE VALUES FOR PENN-UNION INSULATED POWER BAR CONNECTORS

CATALOG FAMILY	INTERNAL SOCKET SIZE ACROSS FLATS (INCHES)	TIGHTENING TORQUE IN INCH POUNDS	CONDUCTOR INSULATION STRIP LENGTHS (INCHES)
IPB, IPBM-NA4 IPBB, IPBBM-NA4	1/8	45 (10-14 AWG) 50 (4-8 AWG)	9/16 (±1/16)
IPB, IPBM-NA2/0 IPBB, IPBBM-NA2/0	7/32	180	3/4 (±1/16)
IPB, IPBM-NA250 IPBB, IPBBM-NA250	5/16	275	1 1/16 (±1/16)
IPB, IPBM-NA350 IPBB, IPBBM-NA350	5/16	275	1 1/4 (±1/8)
IPB, IPBM-NA600 IPBB, IPBBM-NA600	3/8	400	1 3/8 (±1/8)
IPB, IPBM-NA750 IPBB, IPBBM-NA750	3/8	550	1 3/4 (±1/8)
IPB, IPBM-NA1000 IPBB, IPBBM-NA1000	1/2	600	2 5/8 (±1/8)

PROPER FUNCTIONING OF PENN-UNION CORP. "IPB", "IPBM, "IPBB", & "IPBBM" SERIES INSULATED POWER BARS IS CONTINGENT UPON INSTALLATION OF THIS PRODUCT IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND THE ABOVE INSTRUCTIONS. ANY APPLICATION THAT IS NOT IN ACCORD IS CONSIDERED A MISUSE OF THE PRODUCT. READ INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ASSEMBLIES.

PENNUNION
229 WATERFORD STREET
EDINBORO, PA 16412 USA

REV.	ECN	DATE
4	ADD IPB-1000 FAMILY	1/19/17
3	11678	12/22/16
2	11633	2/17/16
1	11512	10/15/14

9Y81-97543-01

WARNING: FAILURE TO FOLLOW THE INSTALLATION INSTRUCTIONS SHOWN BELOW CAN CAUSE A CONDITION OF SEVERE CONNECTOR OVERHEATING AND RELATED HAZARDS.

INSTALLATION INSTRUCTIONS
INSULATED ALUMINUM POWER BARS
CLEAR & BLACK

"IPB" & "IPBB" TYPE POWER BARS ACCOMMODATE FROM TWO TO FOURTEEN CONDUCTORS. TYPES "IPBM" & "IPBBM" ACCOMMODATE FROM TWO TO TWELVE CONDUCTORS IN THE FOLLOWING COMBINATIONS:

ALUMINUM TO ALUMINUM
ALUMINUM TO COPPER
COPPER TO COPPER

INSTALLATION PROCEDURE

(1) SELECT PROPER IPB, IPBM, IPBB OR IPBBM CONNECTOR SIZE AND CONFIGURATION FOR THE CONDUCTOR RANGE TO BE USED.

(2) STRIP THE INSULATION TO A SUFFICIENT LENGTH FOR FULL INSERTION INTO THE CONNECTOR AND TO OBTAIN PROPER SCREW CONTACT.

WHEN STRIPPING INSULATION, BE CAREFUL NOT TO NICK THE CONDUCTOR STRANDS. A proper insulation stripping tool or use of a pencil shaving method is recommended.

WARNING: Nicking of strands will cause a reduction in current carrying capacity of the conductors.

WARNING: Conductor must be stripped immediately prior to installation.

(3) Conductor surface should be thoroughly cleaned by use of a stiff wire brush or abrasive cloth to abrade surface.

(4) After conductors are properly prepared for installation, insert conductors into connector body to a sufficient depth to allow full contact with set screw. The IPB clear insulation will allow the installer to visually verify that full insertion depth has been achieved.

(5) Set screws shall be tightened to final torque value shown in table below.