

Distribution Boxes and Busbars Without screws for anti-theft systems

AMP Distribution Boxes have busbars with spring concept contacts and they are used for multiple energy tapping on low voltage distribution networks. The boxes could be assembled on the pole using metal tapes or bolts and they are fed from secondary line in order to meet to the following:

Main Characteristics:

- It minimizes not authorized access or fraud by the consumers in the connection point and improves visual contamination of the customer entrances, as well as service quality.
- It makes easier to organize and balance tapping of the branches connections, specially with coaxial or anti-theft cables.
- It makes easier to both cut energy services of customers in debt and reconnect them.
- It organizes electrical and phone nets.
- It makes easier the connections, allowing more reliability and eliminating hot points, consequently minimizing technical energy losses.

Its modular system permits to set the boxes with number and type of busbars according the desired consumer concentration required.

Technical Documents:

Large Distribution Box:

- SPEC: 108-37047.

Small Distribution Box:

- SPEC: 108-37062.

Busbar:

- SPEC: 108-37044.



Characteristics:

Distribution Boxes:

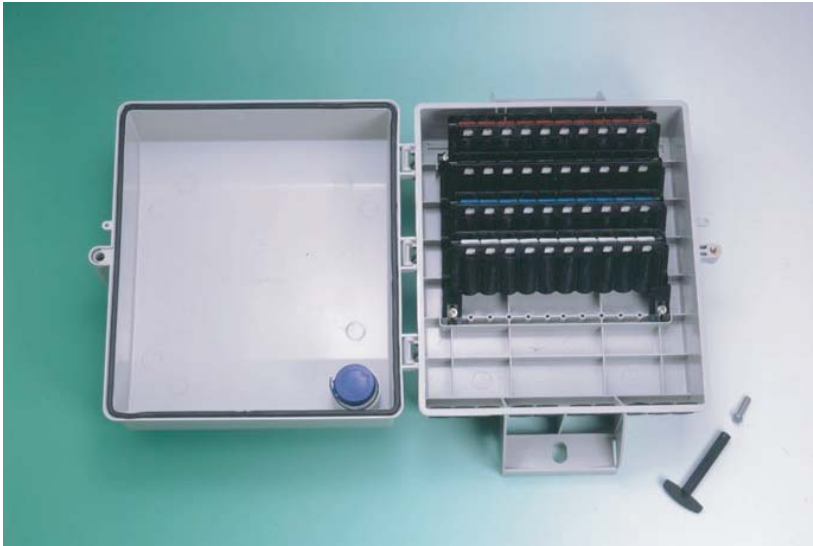
- Impact Resistance UL 746 C – 1995 600V.
- UV Resistant.
- Working Temperature: 80 °C.
- Insulation Protection: IP 44.
- Material: ASA (Acrylonitrile Styrene Acrylate) with excellent UV resistance characteristic.
- Color: Gray

Characteristics:

Busbars:

- Max. Voltage: 600V
- Max. Current: 140 A.
- Working Temperature: 80 °C.
- Max. operating temperature: 100 °C.
- Insulation Material: Polyamide.
- Cables up to #2 AWG.

Available Models:



Large:
Capacity of up to 4 busbars.
External Dimensions: 320 x 440 x 190 mm.



Small:
Capacity of up to 2 busbars.
External Dimensions: 290 x 245 x 130 mm

Distribution Boxes Product Application:

- Insulated distribution networks (ABC or similar)
- Taps using insulated or anti-theft cables.
- Areas with a high level of energy losses.

Before



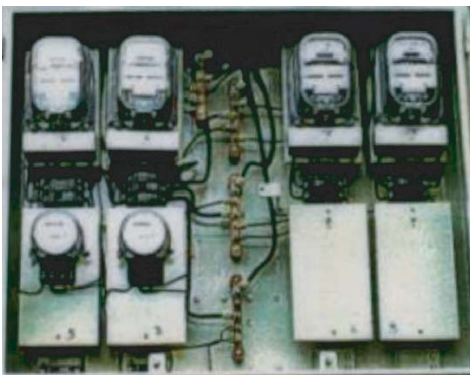
After



Busbar Product Application

- AMP Busbars are an ideal solution for energy metering boxes, mainly on condominiums.
- Industrial panels, as neutral or grounding bars, avoiding predictive maintenance.

Old Connection System



Using AMP Busbars



Product Selection:

Distribution Box:

PN	Type	Number of busbars	Busbar PNs included	Key Shape	Cable in/outs
1480806-1	Small	1	493803-1	Triangular	16
1480807-1		2	493286-1 493803-1	Triangular	
1480808-1		2	493802-1 493803-1	Triangular	
1480949-1		2	493286-1 493286-3	Triangular	
493741-3		4	493286-4 493286-2 493286-1 493286-3	Triangular	
493490-4	Large	3	493286-2 493286-1 493286-3	Triangular	20
493490-5			3	493286-2 493286-1 493286-3	
493983-1		3	493286-2 493286-1 493286-3	"Flower"	10

For other product configurations please contact Tyco Electronics sales representative or your distributor.

Busbars:

Busbars are available with a continuous contact bar, for one 10-position electrical phase per bar, or with a split contact bar, capable of two 5-position electrical phases in the same busbar.

PN	Positions	Color
493286-1	10	Black
493286-2	10	Red
493286-3	10	Blue
493286-4	10	White
493802-1	2x5	Blue Black
493803-1	2x5	Red White



Accessories:

Keys	Triangular	PN: 493 496-1
	Flower (Plastic)	PN: 493 691-1
	Flower (Metal)	PN: 493 467-2
Screw	Triangular	PN: 493 819-1
	Flower	PN: 493 692-1



Installation Procedure:

Step 1: remove 30 mm of cable insulation and group the strands together (Fig. 1a)
For 12 AWG or smaller cables, wrap up as shown (Fig. 1b).



Fig. 1a



Fig. 1b

Step 2: Put corrosion inhibitor on cable end.



Step 3 : After cable ends are prepared, by using a screwdriver on a crowbar movement, insert each cable end inside both metal and housing windows.



Installation Completed



Other products for ABC and anti-theft aerial networks: Insulation Piercing Connectors, AMPACT & UDC wedge connectors, anti-theft shrinkable products.

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