

# Open Style PDBs 62000-69000

## Versatile Power Distribution Blocks for cable terminations

Mersen Power Distribution Blocks afford a safe, convenient way of splicing cables, splitting primary power into a variety of secondary circuits or providing a fixed junction tap-off point. Power block options include single or dual primary connections with up to 30 secondary connections.

### Features/Benefits:

- **Adder Poles**

All series have optional adder poles which snap onto the 1, 2 or 3- pole blocks and lock together to form as many poles as required. Adder poles with a variety of terminations can be combined to match special wire size combinations.

- **Wire Connectors**

Standard aluminum box connectors accommodate aluminum or copper wire, 1 conductor per opening. Standard copper box connections are for copper wire only, 1 conductor per opening. Connectors are all 1 piece and tin plated.

- **Insulators**

Insulators are virtually unbreakable, glass-filled polycarbonate on all series. "See-through" safety covers are available, which give greater safety and provide service entrance ratings for large and intermediate series blocks.

### Highlights:

- **Mini** - 62000 and 63000 Series
- **Intermediate** - 66000 and 67000 Series
- **Large** - 68000 and 69000 Series

### Applications:

- Box, stud and quick-connect terminations for copper and/or aluminum cables



### Ratings:

**Volts** : 600V

**Amps** : 90 to 2660A

**SCCR** : 100kA with proper fuse.

Contact technical services for sizing table.

### Approvals:

- Most sizes are UL Recognized Component -Guide XCFR2, File E73571
- Most sizes are CSA Certified:
  - Series 62, 63, 66, 68 - Class 6228, File 69363
  - Series 67, 69 - Class 3211, File 15469



# Intermediate 66000-67000 Series

## Catalog Numbers

Ampere rating based on NEC Table 310-16 for 75°C copper wire.

Primary		Secondary		Ampere Rating (A)	Aluminum				Copper				Short Circuit Current Rating
Wire Range AWG/kcmil or Stud Size	Openings or Studs per Pole	Wire Range AWG/kcmil or Stud Size	Openings or Studs per Pole		Adder	1-Pole	2-Pole	3-Pole	Adder	1-Pole	2-Pole	3-Pole	
2/0-#14	1	2/0-#14	1	175	67050	67051	67052	67053	66050	66051	66052	66053	100kA
		#2-14	4		67570	67571	67572	67573	66570	66571	66572	66573	100kA
		#2-14	6		67560	67561	67562	67563	66560	66561	66562	66563	100kA
		#2-14	8		67580	67581	67582	67583	66580	66581	66582	66583	100kA
		#6-14	10		67590	67591	67592	67593	66590	66591	66592	66593	100kA
		#10-14*	12		67110	67111	67112	67113	66110	66111	66112	66113	100kA
350-#6	1	350-#6	1	310	67000	67001	67002	67003	66000	66001	66002	66003	100kA
		2/0-#14	2		67010	67011	67012	67013	66010	66011	66012	66013	100kA
		#2-14	4		67670	67671	67672	67673	66670	66671	66672	66673	100kA
		#2-14	6		67660	67661	67662	67663	66660	66661	66662	66663	100kA
		#2-14	8		67630	67631	67632	67633	66630	66631	66632	66633	100kA
		#6-14	10		67650	67651	67652	67653	66650	66651	66652	66653	100kA
500-#4	1	#10-14*	15	380	67620	67621	67622	67623	66620	66621	66622	66623	100kA
		500-#4	1		67400	67401	67402	67403	66400	66401	66402	66403	100kA
		4/0-#6	2		67420	67421	67422	67423	-	-	-	-	100kA
		4/0-#10	2		-	-	-	-	66420	66421	66422	66423	100kA
		2/0-#14	4		67410	67411	67412	67413	66410	66411	66412	66413	100kA
		#2-14	6		67460	67461	67462	67463	66460	66461	66462	66463	100kA
		#2-14	8		67430	67431	67432	67433	66430	66431	66432	66433	100kA
		#6-14	10		67480	67481	67482	67483	66480	66481	66482	66483	100kA
		#10-14*	18		67490	67491	67492	67493	66490	66491	66492	66493	100kA
		#350-#6 & #2-14	3		67450	67451	67452	67453	66450	66451	66452	66453	100kA
#2/0-#14	2	#2/0-#14	2	350	67020	67021	67022	67023	66020	66021	66022	66023	100kA
		#2-14	6		67510	67511	67512	67513	66510	66511	66512	66513	100kA
		#2-14	8		67610	67611	67612	67613	66610	66611	66612	66613	100kA
		#6-14	10		67530	67531	67532	67533	66530	66531	66532	66533	100kA
		#10-14*	15		67550	67551	67552	67553	66550	66551	66552	66553	100kA
4/0-#10	2	4/0-#10	2	460	-	-	-	-	66520	66521	66522	66523	100kA
4/0-#6	2	4/0-#6	2	460	67520	67521	67522	67523	-	-	-	-	100kA
		#2-14	6	460	67540	67541	67542	67543	66540	66541	66542	66543	100kA
<b>Box to Stud</b>													
350-36	1	3/8-16 x 1	1	310	67250	67251	67252	67253	66250	66251	66252	66253	
500-#4	1	3/8-16 x 1-1/16	1	380	67220	67221	67222	67223	66220	66221	66222	66223	
		1/4-20 x 1-1/16	2	380	67240	67241	67242	67243	66240	66241	66242	66243	
<b>Stud to Stud</b>													
1/4-20 x 1-5/16	1	1/4-20 x 1-5/16	1	155	-	-	-	-	66270	66271	66272	66273	
1/4-20 x 1-5/16	1	1/4-20 x 1-5/16	1	155	-	-	-	-	66210	66211	66212	66213	
		3/8-16 x 1-5/16	1	155	-	-	-	-	66200	66201	66202	66203	
3/8-16 x 1-1/8	1	3/8-16 x 1-1/8	1	400	-	-	-	-	66260	66261	66262	66263	
		1/4-20 x 1-1/8	2	400	-	-	-	-	66230	66231	66232	66233	

\*Copper wire only

Stud type connectors are furnished with nuts and washers. Recommended stud torque: (1/4-20) - 72 in.-lbs; (3/8-16) - 228 in.-lbs.

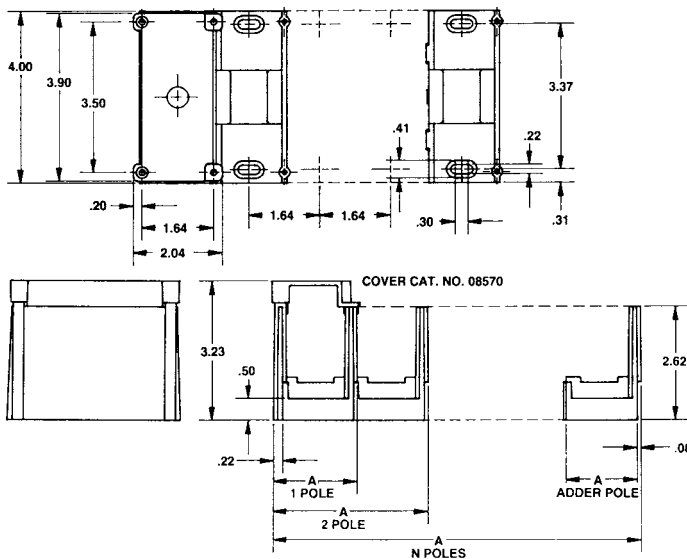
\*Short circuit current rating with correctly sized fuse 100kA. Contact Mersen technical services for fuse type and maximum ampere required.

# Aluminum connectors are rated for 90° C Cu/AL wire, copper connectors are rated for 75° C Cu wire.



# Intermediate 66000-67000 Series

## Dimensions



Number of Poles	Dimension A (Inches)
Adder	1.64
1	1.94
2	3.57
3	5.20
N	$(1.635 \times N) + .3$

Example for 10 poles:  
 $A = (1.635 \times 10) + .30 = 16.65$  inches

## Safety Cover - Catalog No. 08570

Polycarbonate safety covers provide dead-front protection for 66000 and 67000 series power distribution blocks. One cover is needed for each pole (1-pole block requires 1 cover, 3-pole requires 3 covers, etc.) Each cover has a test probe hole in the center for circuit checking and each is marked with the reminder "REPLACE AFTER SERVICING EQUIPMENT." Mounting screws are supplied with cover. To order, simply determine the total number of poles to be protected and specify the same number of 08570 safety covers. Recommended mounting screws for all 66000-67000 series: #10 (.190 diameter).

## End Barrier - Catalog No. U09705

Polycarbonate end barriers snap on to PDB Adder blocks to form 1-pole blocks. Use one barrier per block.

## Properties of Materials Used in Power Distribution Blocks

Property	Units	ASTM Test	Glass Filled Polycarbonate
Specific Gravity		D792	1.21
IZOD	ft-lb/in	D256	4-6
Flexural Strength	psi	D790	13,200
Flexural Modulus	psi	D790	325,000
Tensile Strength	psi	D638	9,000
Compressive Strength	psi	D695	12,500
Water Absorption	24 hrs-%	D570	.15
Hardness	Rockwell	D785	M-85
Dielectric Strength			
• 60Hz, 25°C, s/t	vpm	D149	425
• 60Hz, 25°C, s/s	vpm	D149	425
Dielectric constant			
• 60Hz-dry		D150	3.01
• 1Hz-dry		D150	2.96
Volume resistivity	ohm-cm	D257	$>10^{15}$
Heat deflecting (°F@264 psi)	°F	D648	270
Flammability (UL 94)			94 V-0

Note: Above data represents approximate values and are for reference only.