

62000-69000 SERIES

POWER DISTRIBUTION BLOCKS



VERSATILE POWER DISTRIBUTION BLOCKS FOR CABLE TERMINATIONS

Ferraz Shawmut 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.

Ratings

- Ampere ratings from 90 to 2660
- 600V rated
- Short Circuit current rating 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

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

INTERMEDIATE 66000-67000 SERIES/POWER DIST. BLOCKS

Sizes, Ratings, Catalog Numbers – Intermediate Series 66000 and 67000

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



PRIMARY		SECONDARY		AMPERE RATING	CATALOG NUMBER								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		ALUMINUM (90° C Cu/Al wire)				COPPER (75° C Cu wire only)				
					ADDER	1 POLE	2 POLE	3 POLE	ADDER	1 POLE	2 POLE	3 POLE	
Box to Box													
2/0-#14	1	2/0-#14	1	175	67050	67051	67052	67053	66050	66051	66052	66053	•
		#2-14	4		67570	67571	67572	67573	66570	66571	66572	66573	•
		#2-14	6		67560	67561	67562	67563	66560	66561	66562	66563	•
		#2-14	8		67580	67581	67582	67583	66580	66581	66582	66583	•
		#6-14	10		67590	67591	67592	67593	66590	66591	66592	66593	•
		#10-14*	12		67110	67111	67112	67113	66110	66111	66112	66113	•
		350-#6	1		350-#6	1	310	67000	67001	67002	67003	66000	66001
2/0-#14	2			67010	67011	67012		67013	66010	66011	66012	66013	•
#2-14	4			67670	67671	67672		67673	66670	66671	66672	66673	•
#2-14	6			67660	67661	67662		67663	66660	66661	66662	66663	•
#2-14	8			67630	67631	67632		67633	66630	66631	66632	66633	•
#6-14	10			67650	67651	67652		67653	66650	66651	66652	66653	•
#10-14*	15			67620	67621	67622		67623	66620	66621	66622	66623	•
500-#4	1	500-#4	1	380	67400	67401	67402	67403	66400	66401	66402	66403	•
		4/0-#6	2		67420	67421	67422	67423	-	-	-	-	•
		4/0-#10	2		-	-	-	-	66420	66421	66422	66423	•
		2/0-#14	4		67410	67411	67412	67413	66410	66411	66412	66413	•
		#2-14	6		67460	67461	67462	67463	66460	66461	66462	66463	•
		#2-14	8		67430	67431	67432	67433	66430	66431	66432	66433	•
		#6-14	10		67480	67481	67482	67483	66480	66481	66482	66483	•
		#10-14*	18		67490	67491	67492	67493	66490	66491	66492	66493	•
		350-#6	1		-	-	-	-	-	-	-	-	•
		& #2-14	3		67450	67451	67452	67453	66450	66451	66452	66453	•
2/0-#14	2	2/0-#14	2	350	67020	67021	67022	67023	66020	66021	66022	66023	•
		#2-14	6		67510	67511	67512	67513	66510	66511	66512	66513	•
		#2-14	8		67610	67611	67612	67613	66610	66611	66612	66613	•
		#6-14	10		67530	67531	67532	67533	66530	66531	66532	66533	•
		#10-14*	15		67550	67551	67552	67553	66550	66551	66552	66553	•
4/0-#10	2	4/0-#10	2	460	-	-	-	-	66520	66521	66522	66523	•
4/0-#6	2	4/0-#6 #2-14	2 6	460 460	67520 67540	67521 67541	67522 67542	67523 67543	- 66540	- 66541	- 66542	- 66543	•

Box to Stud

350-#6	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

Stud to Stud

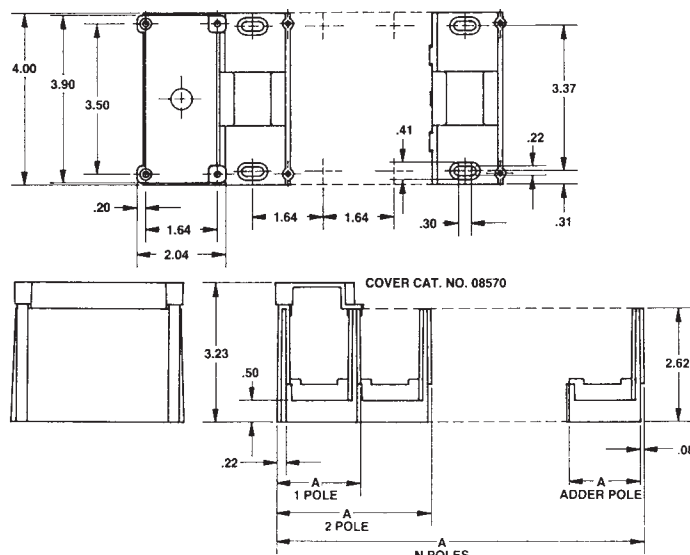
1/4-20 x 1-5/16	1	1/4-20 x 1-5/16	1	155	-	-	-	-	66270	66271	66272	66273
3/8-16 x 1-5/16	1	1/4-20 x 1-5/16	1	155	-	-	-	-	66210	66211	66212	66213
		3/8-16 x 1-5/16	1	155	-	-	-	-	66200	66201	66202	66203
3/8-16 x 1-1/8	1	3/8-16 x 1-1/8	1	400	-	-	-	-	66260	66261	66262	66263
		1/4-20 x 1-1/8	2	400	-	-	-	-	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 except adder block. Contact Ferraz technical services for fuse type and maximum ampere required.

INTERMEDIATE 66000-67000 SERIES/POWER DIST. BLOCKS



Dimensions – 66000 and 67000 Series Power Distribution Blocks

NUMBER OF POLES	DIMENSION A (Inches)
ADDER	1.64
1	1.94
2	3.57
3	5.20
N	$(1.635 \times N) + .30$

Example for 10 poles:

$$A = (1.635 \times 10) + .30 = 16.65 \text{ inches}$$

SAFETY COVER - CATALOG NUMBER 08570

Polycarbonate safety cover provides 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 prod 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 number 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		D149	
60 hertz, 25°C, s/t	vpm		425
60 hertz, 25°C, s/s	vpm		425
Dielectric constant		D150	
60Hz-dry			3.01
1 Mhz-dry			2.96
Volume resistivity	ohm-cm	D257	$> 10^{16}$
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.