Installation Instructions

Original Instructions

PowerFlex 755T Products EMC Gland Plate and Cable Clamp Kits

Catalog Numbers 20-750-MEMCPLT-400WB, 20-750-MEMCPLT-800WB, 20-750-MEMCPLT-IB1000, 20-750-MEMCPLT-IBF8, 20-750-MEMCPLT-IBF9, 20-750-MEMCPLT-PB600, 20-750-MEMCPLT-PB800, 20-750-MEMCPLT-PBF8, 20-750-MGROMMT-EMC, 20-750-MEMCCLP-250, 20-750-MEMCCLP-205, 20-750-MEMCCLP-175, 20-750-MEMCCLP-135, 20-750-MEMCCLP-125, 20-750-MGROMMT-EMC

The electromagnetic compatibility (EMC) gland plate and cable clamp kits are used for applications of PowerFlex® 755T product installations that require EMC compliance according to IEC 61800-3. Properly installed EMC gland plate kits provide an IP54 rating. To meet the requirements of this rating, all components in the EMC gland plate kits must be used and no part of the kit can be substituted.

IMPORTANT The EMC gland plate kits are not suitable for use in installations requiring UL or cUL certification.

Product Advisories

ATTENTION: Only qualified personnel, which are trained and approved to install PowerFlex 755T products and familiar with associated machinery, should plan or implement the installation, startup, and subsequent maintenance of the system. Failure to comply can result in personal injury and/or equipment damage.

ATTENTION: The information that is contained in this publication is merely a guide for proper installation. Rockwell Automation, Inc. cannot assume responsibility for the compliance or the noncompliance to any code, national, local or otherwise for the proper installation of this drive or associated equipment. A hazard of personal injury and/or equipment damage exists if codes are ignored during installation.

Before You Begin

Complete these requirements before you begin installation of your kits:

- Obtain a copy of the PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication 750-IN100, to review and complete these requirements:
  - To install the EMC gland plate kits in power bays where output power cables are installed, you must remove the LCL filter and power modules from the enclosure. For instructions on how to remove LCL filter and power modules, see Chapter 4 - Mechanical and Electrical Installation in publication 750-IN100.
  - Three-conductor shielded cable, sized for your application, is required for this installation to provide proper cable grounding and EMC compliance. See Chapter 5 - Power Wiring in publication 750-IN100.
  - You must purchase the appropriately sized barrel lugs for installation on your power cables. See Chapter 5 - Power Wiring in publication 750-IN100.
- Read the installation instructions contained in this document.

EMC Gland Plate Kit Selection Verification

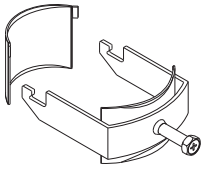
Use this table to verify your EMC gland plate kit selections.

PowerFlex 755T Product	Frame Size	Enclosure Type	Enclosure Width mm (in.)	EMC Gland Plate Kit Cat. No.
Drive	8…10	Optional Entry/Exit Wire Bay(1)	400 (16)	20-750-MEMCPLT-400WB
	11, 12		800 (32)	20-750-MEMCPLT-800WB
	8	Input Bay	400 (16)	20-750-MEMCPLT-IBF8
	9		600 (24)	20-750-MEMCPLT-IBF9
	10…12		1000 (39)	20-750-MEMCPLT-IB1000
	8	Power Bay	800 (32)	20-750-MEMCPLT-PB800
Bus Supply	10	Optional Entry Wire Bay	400 (16)	20-750-MEMCPLT-400WB
	11, 12		800 (32)	20-750-MEMCPLT-800WB
	8	Input Bay	400 (16)	20-750-MEMCPLT-IBF8
	9		600 (24)	20-750-MEMCPLT-IBF9
	10…12		1000 (39)	20-750-MEMCPLT-IB1000
Common Bus Inverter	8…10	Optional Exit Wire Bay	400 (16)	20-750-MEMCPLT-400WB
	11, 12		800 (32)	20-750-MEMCPLT-800WB
	8	Power Bay	400 (16)	20-750-MEMCPLT-PBF8
	9, 11, 12		600 (24)	20-750-MEMCPLT-PB600
	10, 12		800 (32)	20-750-MEMCPLT-PB800

(1) Frame 8 and 9 drives use optional exit wire bays only.

Cable Clamp Kit Selection Verification

The power cable clamps are used to secure the power cables to the gland plate assembly. The cable shield must be exposed and in contact with the clamp. Therefore, the cable clamps must be sized to fit the maximum diameter of the power cable with the shield exposed. Use this table to verify your cable clamp kit selection.

Power Cable Diameter - Shield Exposed		Cable Clamp Kit Cat. No.	Clamp Quantity	Cable Clamp Example
Millimeters	Inches			
22…27	0.7…1.1	20-750-MEMCCLP-125	5	
26…36	1.0…1.4	20-750-MEMCCLP-135		
34…44	1.3…1.7	20-750-MEMCCLP-175		
42…52	1.7…2.0	20-750-MEMCCLP-205		
54…64	2.1…2.5	20-750-MEMCCLP-250		

Elastic Grommet Kit

The elastic grommet kit, catalog number 20-750-MGROMMT-EMC, includes three grommets. Purchase and use this kit to replace damaged grommets.

EMC Gland Plate Kits Contents

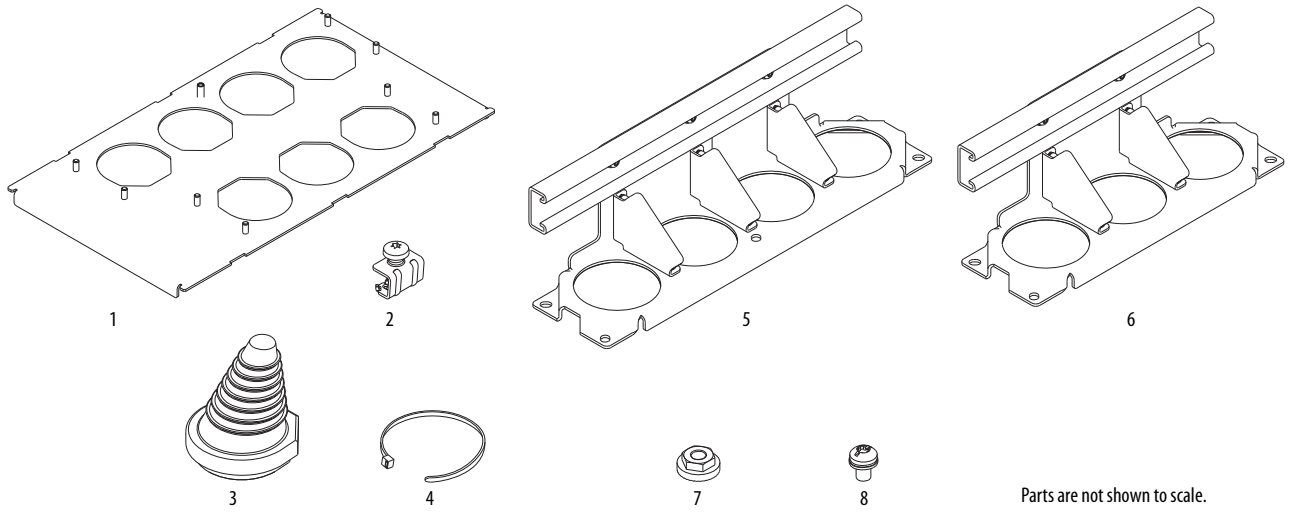
Use this table to identify your gland plate kit and find the page on which you can verify the contents of your kit.

Gland Plate Kit Cat. No.	Description	Page
20-750-MEMCPLT-400WB	400 mm (16 in.) Wide Wire Bay Gland Plate Kit	3
20-750-MEMCPLT-800WB	800 mm (32 in.) Wide Wire Bay Gland Plate Kit	4
20-750-MEMCPLT-IBF8	400 mm (16 in.) Wide Input Bay Gland Plate Kit	4
20-750-MEMCPLT-IBF9	600 mm (23.6 in.) Wide Input Bay Gland Plate Kit	5

Gland Plate Kit Cat. No.	Description	Page
20-750-MEMCPLT-IB1000	1000 mm (39 in.) Wide Input Bay Gland Plate Kit	5
20-750-MEMCPLT-PBF8	400 mm (16 in.) Wide Power Bay Gland Plate Kit	6
20-750-MEMCPLT-PB600	600 mm (23.6 in.) Wide Power Bay Gland Plate Kit	6
20-750-MEMCPLT-PB800	800 mm (32 in.) Wide Power Bay Gland Plate Kit	7

400 mm (16 in.) Wide Wire Bay EMC Gland Plate Kit Contents (Cat. No. 20-750-MEMCPLT-400WB)

The 400 mm (16 in.) wide wire bay EMC gland plate kit contains these components.



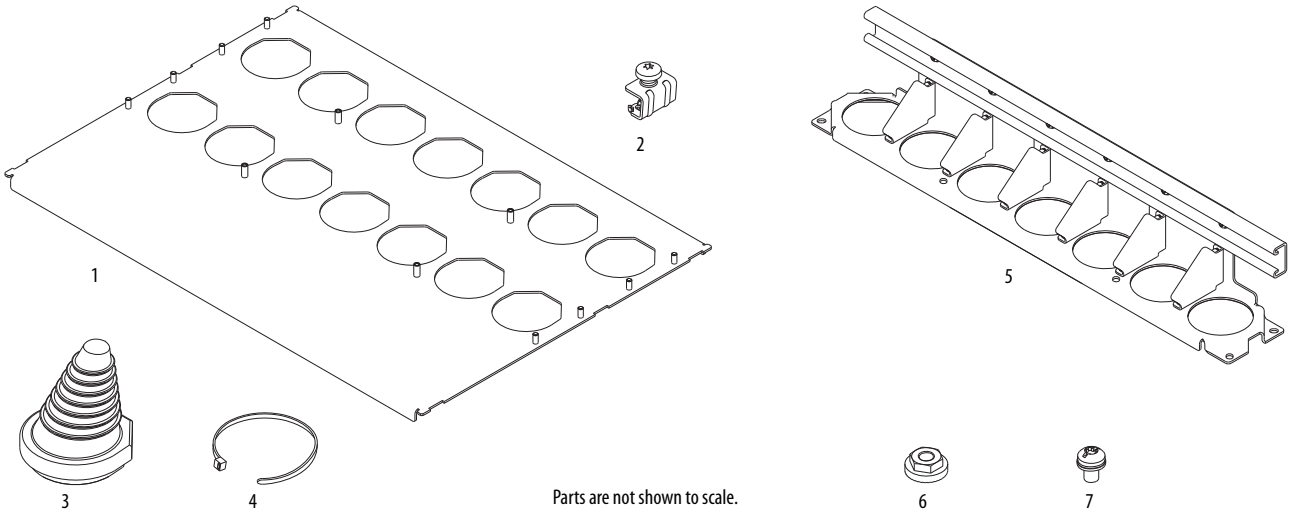
Parts are not shown to scale.

Item	Quantity	Description
1	1	400 mm (16 in.) Wide Gland Plate (Seven Holes)
2	6	Gland Plate Mounting Clip with Screw
3	7	Elastic Grommet
4	9	Cable Tie (The kit contains more cable ties than are required.)

Item	Quantity	Description
5	1	Mounting Bracket Assembly (Four Holes)
6	1	Mounting Bracket Assembly (Three Holes)
7	12	M6 Serrated Hex Nut
8	1	M5 x 8 mm Torx Screw

800 mm (32 in.) Wide Wire Bay EMC Gland Plate Kit Contents (Cat. No. 20-750-MEMCPLT-800WB)

The 800 mm (32 in.) wide wire bay EMC gland plate kit contains these components.



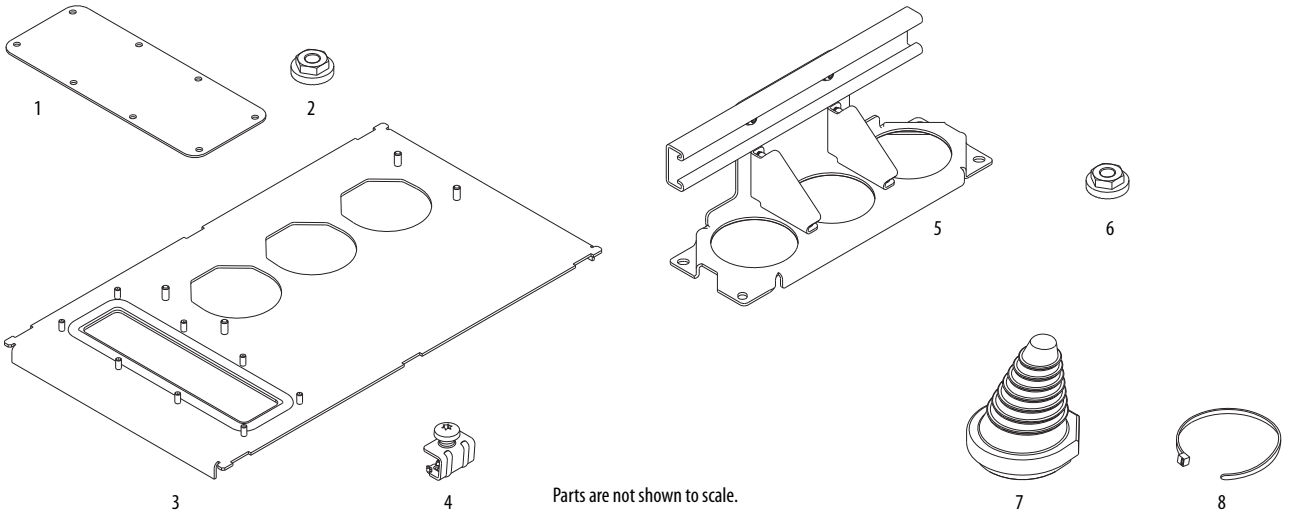
Parts are not shown to scale.

Item	Quantity	Description
1	1	800 mm (32 in.) Wide Gland Plate (14 Holes)
2	6	Gland Plate Mounting Clip with Screw
3	14	Elastic Grommet
4	17	Cable Tie (The kit contains more cable ties than are required.)

Item	Quantity	Description
5	2	Mounting Bracket Assembly (Seven Holes)
6	8	M6 Serrated Hex Nut
7	4	M5 x 8 mm Torx Screw

400 mm (16 in.) Wide Input Bay EMC Gland Plate Kit Contents (Cat. No. 20-750-MEMCPLT-IBF8)

The 400 mm (16 in.) wide input bay EMC gland plate kit contains these components.



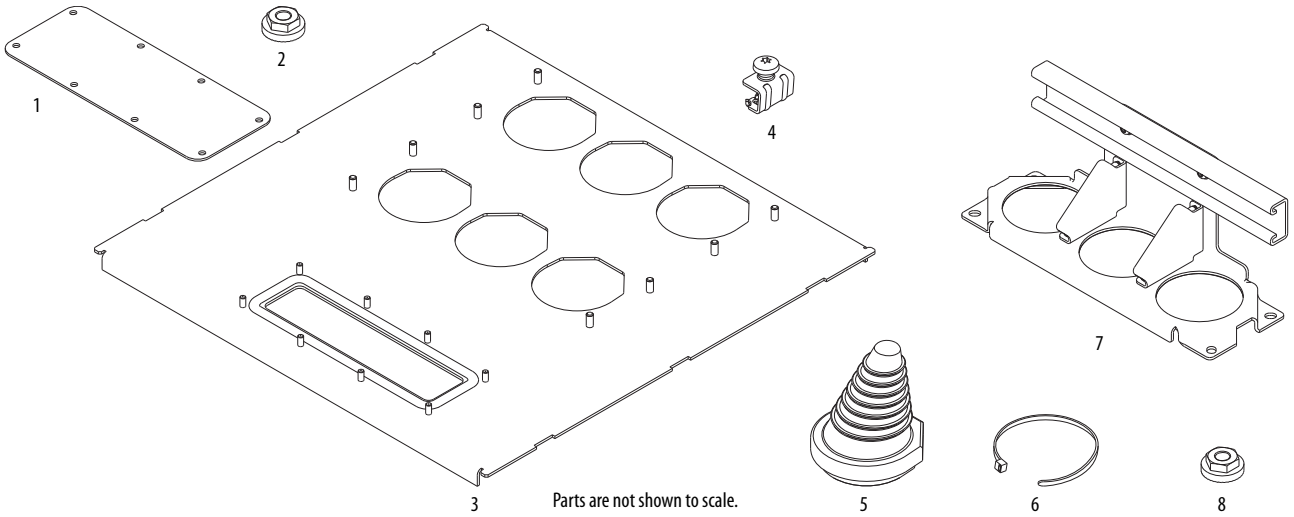
Parts are not shown to scale.

Item	Quantity	Description
1	1	Gland Plate Cover
2	8	M5 Serrated Hex Nut (for Gland Plate Cover)
3	1	400 mm (16 in.) Wide Gland Plate (Three Holes)
4	6	Gland Plate Mounting Clip with Screw

Item	Quantity	Description
5	1	Mounting Bracket Assembly (Three Holes)
6	4	M6 Serrated Hex Nut (for Mounting Bracket Assembly)
7	3	Elastic Grommet
8	4	Cable Tie (The kit contains more cable ties than are required.)

600 mm (23.6 in.) Wide Input Bay EMC Gland Plate Kit Contents (Cat. No. 20-750-MEMCPLT-IBF9)

The 600 mm (23.6 in.) wide input bay EMC gland plate kit contains these components.

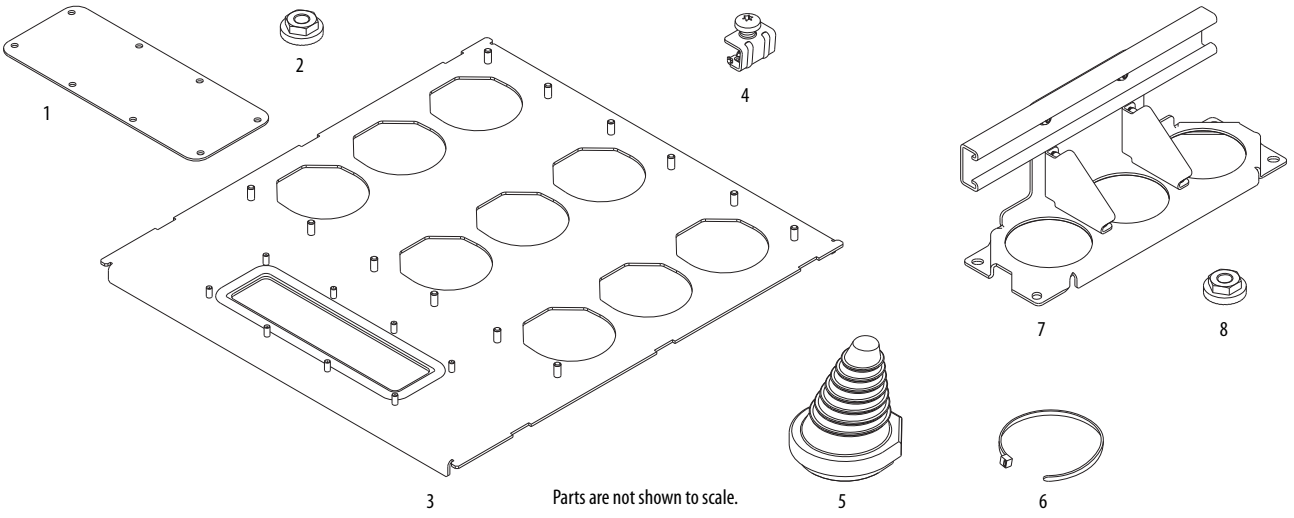


Item	Quantity	Description
1	1	Gland Plate Cover
2	8	M5 Serrated Hex Nut (for Gland Plate Cover)
3	1	600 mm (23.6 in.) Wide Gland Plate (Six Holes)
4	6	Gland Plate Mounting Clip with Screw

Item	Quantity	Description
5	6	Elastic Grommet
6	8	Cable Tie (The kit contains more cable ties than are required.)
7	2	Mounting Bracket Assembly (Three Holes)
8	8	M6 Serrated Hex Nut (for Mounting Bracket Assembly)

1000 mm (39 in.) Wide Input Bay EMC Gland Plate Kit Contents (Cat. No. 20-750-MEMCPLT-IB1000)

The 1000 mm (39 in.) wide input bay EMC gland plate kit contains these components.

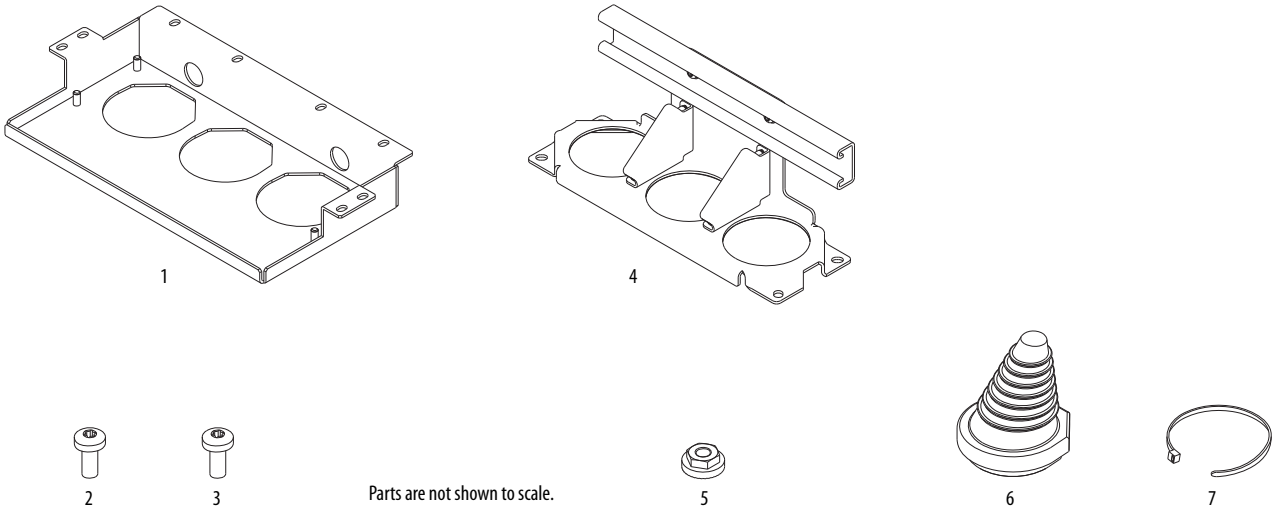


Item	Quantity	Description
1	2	Gland Plate Cover
2	16	M5 Serrated Hex Nut (for Gland Plate Cover)
3	2	1000 mm (39 in.) Wide Gland Plate (Nine Holes)
4	12	Gland Plate Mounting Clip with Screw

Item	Quantity	Description
5	18	Elastic Grommet
6	22	Cable Tie (The kit contains more cable ties than are required.)
7	6	Mounting Bracket Assembly (Three Holes)
8	24	M6 Serrated Hex Nut (for Mounting Bracket Assembly)

400 mm (16 in.) Wide Power Bay EMC Gland Plate Kit Contents (Cat. No. 20-750-MEMCPLT-PBF8)

The 400 mm (16 in.) wide power bay EMC gland plate kit contains these components.



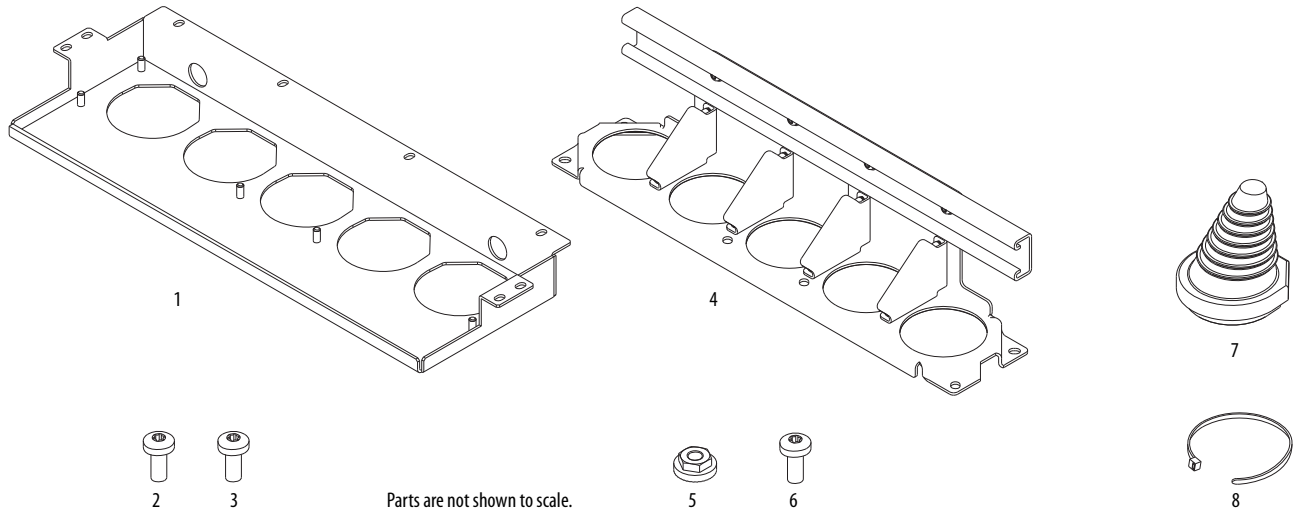
Item	Quantity	Description
1	1	400 mm (16 in.) Wide Gland Plate (Three Holes)
2	8	M5.5 x 13 mm Torx Screw (for Gland Plate)
3	8	M6 x 12 mm Torx Screw (for Gland Plate)(1)
4	1	Mounting Bracket Assembly (Three Holes)

Item	Quantity	Description
5	4	M6 Serrated Hex Nut (for Mounting Bracket Assembly)
6	3	Elastic Grommet
7	4	Cable Tie (The kit contains more cable ties than are required.)

(1) Theses screws are only used if necessary. See Install a Power Bay EMC Gland Plate and Cable Clamp Kit on page 16 for details.

600 mm (23.6 in.) Wide Power Bay EMC Gland Plate Kit Contents (Cat. No. 20-750-MEMCPLT-PB600)

The 600 mm (23.6 in.) wide power bay EMC gland plate kit contains these components.



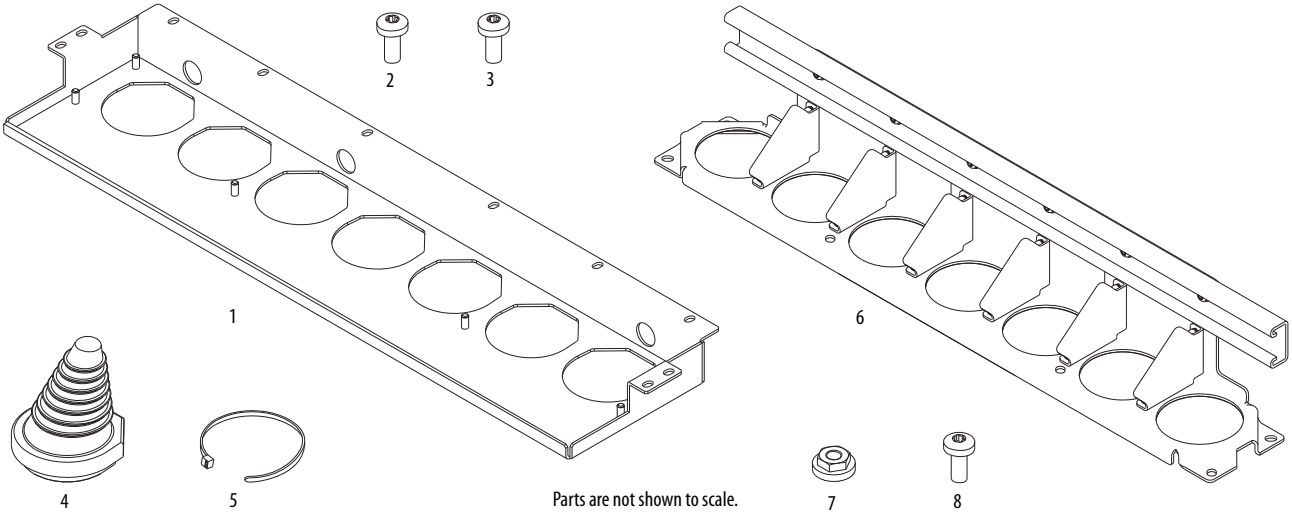
Item	Quantity	Description
1	1	600 mm (23.6 in.) Wide Gland Plate (Five Holes)
2	8	M5.5 x 13 mm Torx Screw (for Gland Plate)
3	8	M6 x 12 mm Torx Screw (for Gland Plate)(1)
4	1	Mounting Bracket Assembly (Five Holes)

Item	Quantity	Description
5	4	M6 Serrated Hex Nut (for Mounting Bracket Assembly)
6	2	M5 x 8 mm Torx Screw (for Mounting Bracket Assembly)
7	5	Elastic Grommet
8	6	Cable Tie (The kit contains more cable ties than are required.)

(1) Theses screws are only used if necessary. See Install a Power Bay EMC Gland Plate and Cable Clamp Kit on page 16 for details.

800 mm (32 in.) Wide Power Bay EMC Gland Plate Kit Contents (Cat. No. 20-750-MEMCPLT-PB800)

The 800 mm (32 in.) wide power bay EMC gland plate kit contains these components.



Item	Quantity	Description
1	1	800 mm (32 in.) Wide Gland Plate (Seven Holes)
2	10	M5.5 x 13 mm Torx Screw (for Gland Plate)
3	10	M6 x 12 mm Torx Screw (for Gland Plate)(1)
4	7	Elastic Grommet

Item	Quantity	Description
5	9	Cable Tie (The kit contains more cable ties than are required.)
6	1	Mounting Bracket Assembly (Seven Holes)
7	8	M6 Serrated Hex Nut (for Mounting Bracket)
8	2	M5 x 8 mm Torx Screw (for Mounting Bracket Assembly)

(1) Theses screws are only used if necessary. See Install a Power Bay EMC Gland Plate and Cable Clamp Kit on page 16 for details.

Required Tools

The tools that are listed in this table are required for installation.

Tool Description	Details
Cloth/Paper towel	To remove lubricant from power cable and lugs.
Crimp tool	Sized for lugs and power cable.
Cutting tool	Box knife, hand knife, scissors.
DCPC module lift	Used together with the module service cart to remove DC precharge modules.
Hexagonal socket wrench	8 mm, 10 mm, 17 mm, 19 mm
Lubricant	Silicone gel or talcum powder to apply to cables for grommet installation.
Module service cart	The optional module service cart (20-750-MCART1) is recommended to handle and transport power modules. **Important:** The service cart is required to handle and transport LCL filter modules.
Module storage hardware	Module storage hardware (20-750-MINV-ATIP) helps to stabilize power and filter modules during temporary storage after removal.
Nose Pliers	—
Permanent Marker or Pen	—
Phillips screwdriver/bit	#1, #2
Torque wrench	1...12 N•m (8.8…106 lb•in)
Torque wrench	6...50 N•m (53…443 lb•in)
Hexalobular (Torx or star) screw driver/bit	#25, #30
Wire cutter	—

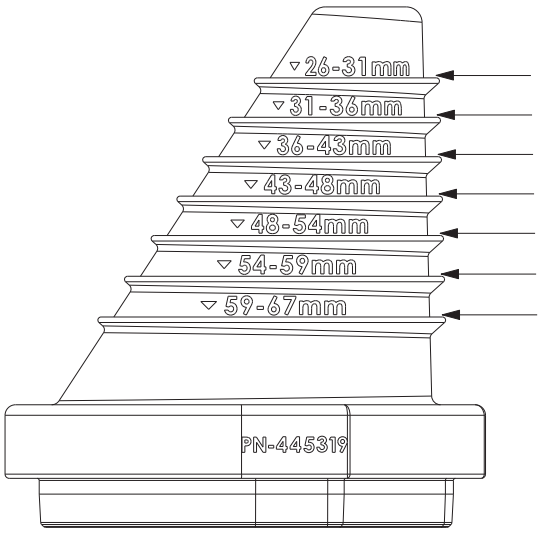
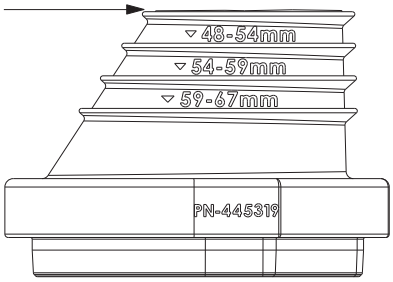
Prepare the Elastic Grommets for Installation

The elastic grommets that are provided with the kits must be cut to fit the maximum outside diameter of the power cables. Follow these steps to prepare the grommets before installation.

IMPORTANT The elastic grommets must be cut to fit the exact outside diameter of the power cables. Verify the diameter of your power cables before you cut the grommets. Do not use a grommet that was cut improperly and does not exactly fit the power cable diameter. Kit catalog number 20-750-MGROMMT-EMC is available for purchase and contains three elastic grommets that are used with these gland plate and cable clamp kits.

1. Use this table to determine where you must cut the grommets to fit your power cable diameter.
2. Mark each grommet to identify where it must be cut.
3. Cut and remove the excess material above the marked location.

IMPORTANT A grommet must be installed in all bracket assembly openings. Retain all uncut grommets for installation.

Elastic Grommet	Power Cable Outside Diameter		Cut Grommet Example
	Millimeters	Inches	Grommet cut to fit a 45 mm (1.8 in.) diameter cable.
	26…31	1.0…1.2	
	31…36	1.2…1.4	
	36…43	1.4…1.7	
	43…48	1.7…1.9	
	48…54	1.9…2.1	
	54…59	2.1…2.3	
	59…67	2.3…2.6	
	—	—	

Install the EMC Gland Plate and Cable Clamp Kits

Choose the appropriate steps to install your EMC gland plate and cable clamp kits:

- Install a Wire or Input Bay EMC Gland Plate and Cable Clamp Kit on page 9.
- Install a Power Bay EMC Gland Plate and Cable Clamp Kit on page 16.

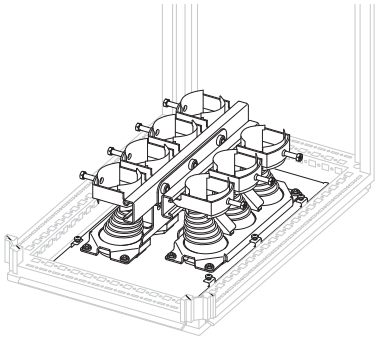
Install a Wire or Input Bay EMC Gland Plate and Cable Clamp Kit

Follow these steps to install the following EMC gland plate and cable clamp kit catalog numbers: 20-750-MEMCPLT-400WB, 20-750-MEMCPLT-800WB, 20-750-MEMCPLT-IBF8, 20-750-MEMCPLT-IBF9, 20-750-MEMCPLT-IB1000

IMPORTANT Barrel lugs must be installed on the power cables before you complete this installation. See the PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication 750-IN100, for details on power wiring terminations.

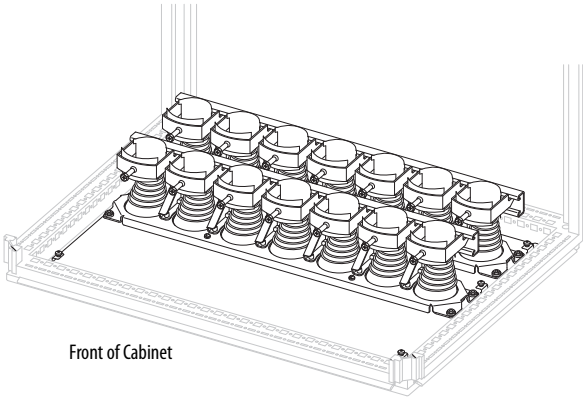
1. Cut the elastic grommets to the appropriate size for your power cables. See Prepare the Elastic Grommets for Installation on page 8.
2. Remove the existing conduit plate from the bottom of the enclosure. Do not reuse the hardware from this plate.
3. Insert the EMC gland plate into the bottom of the enclosure. Final gland plate kit orientation is shown here for reference.

400 mm (16 in.) Wide Wire Bay Gland Plate Kit (Cat. No. 20-750-MEMCPLT-400WB)



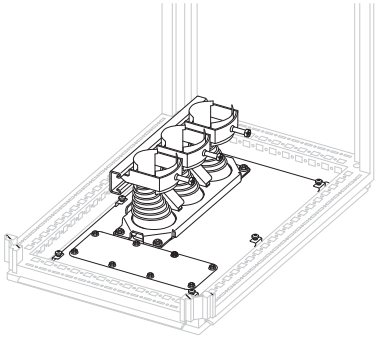
Front of Cabinet

800 mm (32 in.) Wide Wire Bay Gland Plate Kit (Cat. No. 20-750-MEMCPLT-800WB)



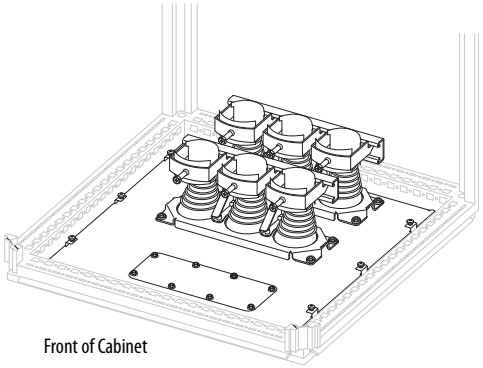
Front of Cabinet

400 mm (16 in.) Wide Input Bay Gland Plate Kit (Cat. No. 20-750-MEMCPLT-IBF8)



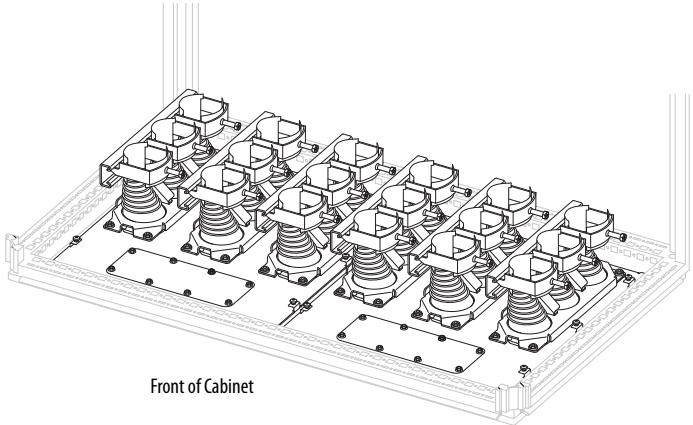
Front of Cabinet

600 mm (23.6 in.) Wide Input Bay Gland Plate Kit (Cat. No. 20-750-MEMCPLT-IBF9)



Front of Cabinet

1000 mm (39 in.) Wide Input Bay Gland Plate Kit (Cat. No. 20-750-MEMCPLT-IB1000)

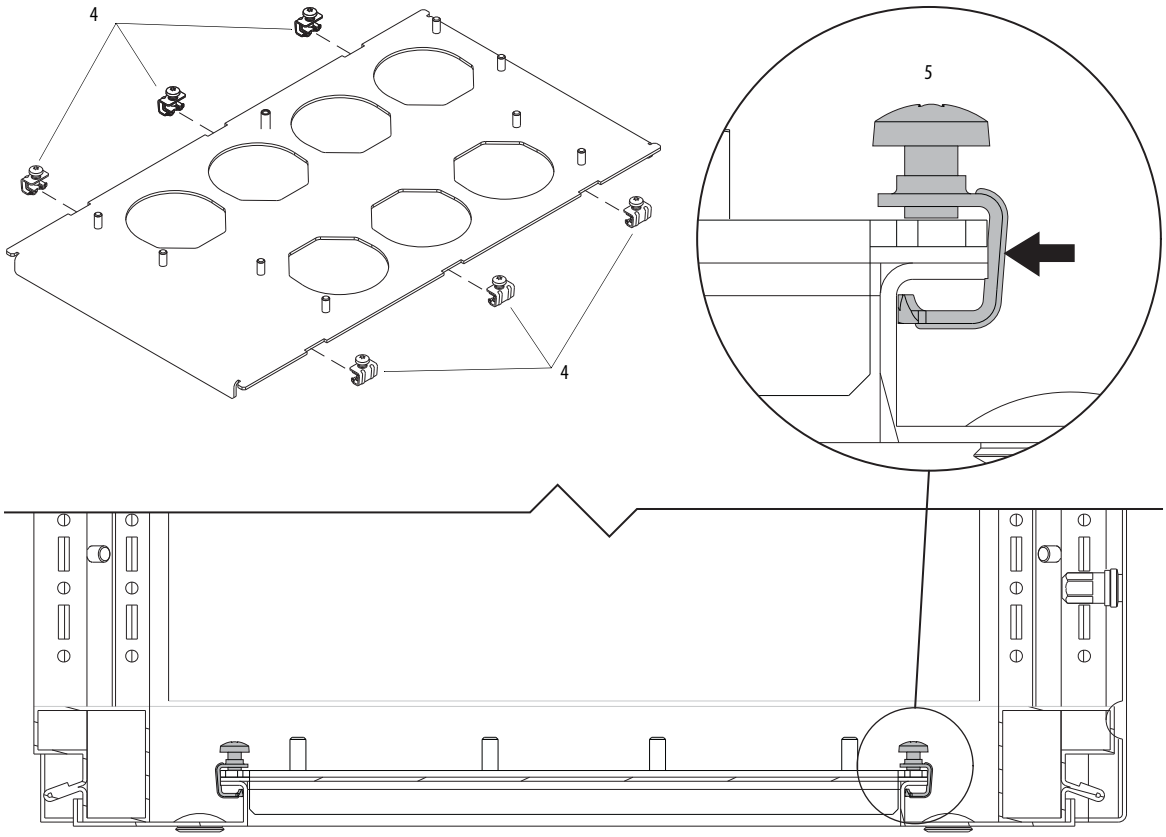


Front of Cabinet

4. Place the mounting clip (as shown), over the edges of the base plate flange and gland plate.
5. With the mounting clips fully seated against the edges of the plates, tighten the captive M5 torx screws.

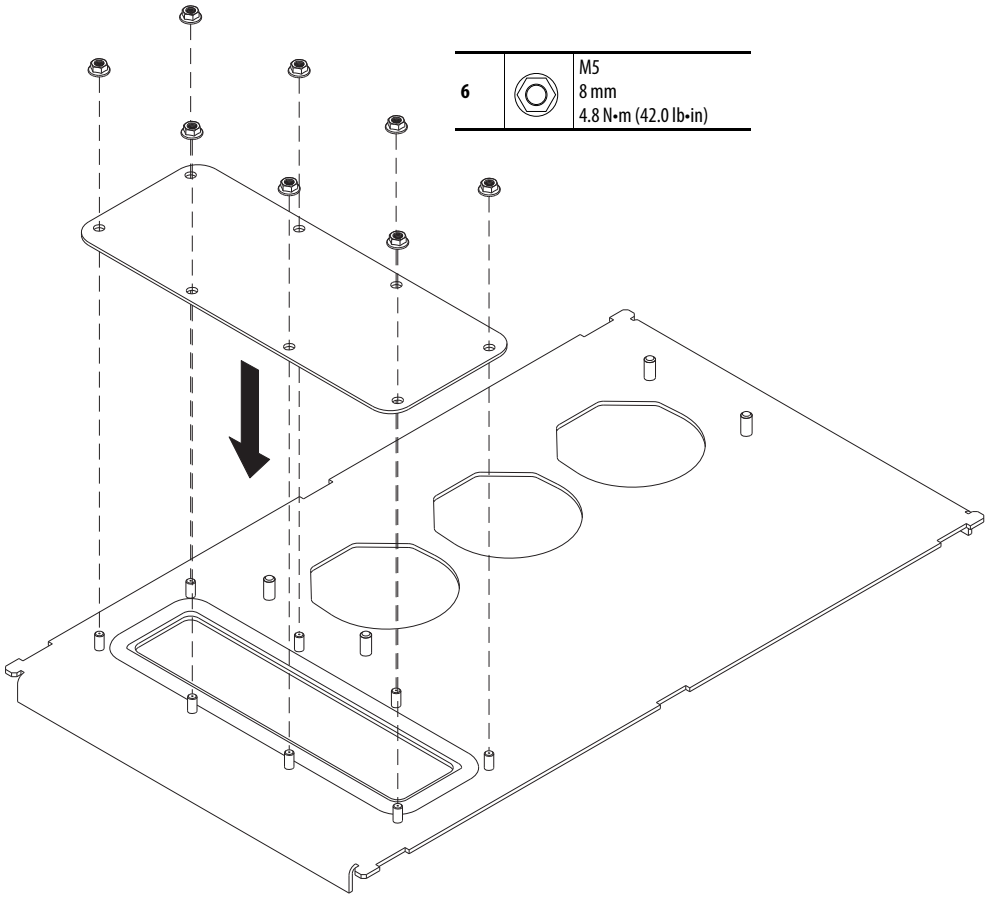
400 mm (16 in.) Wide Wire Bay and Gland Plate Kit Shown.

5		M5 T25 4.5 N•m (40.0 lb•in)



6. For the input bay gland plates only, place the cover plate over the opening on the gland plate and secure the cover with the eight M5 hex nuts.

400 mm (16 in.) Wide Input Bay Gland Plate Shown

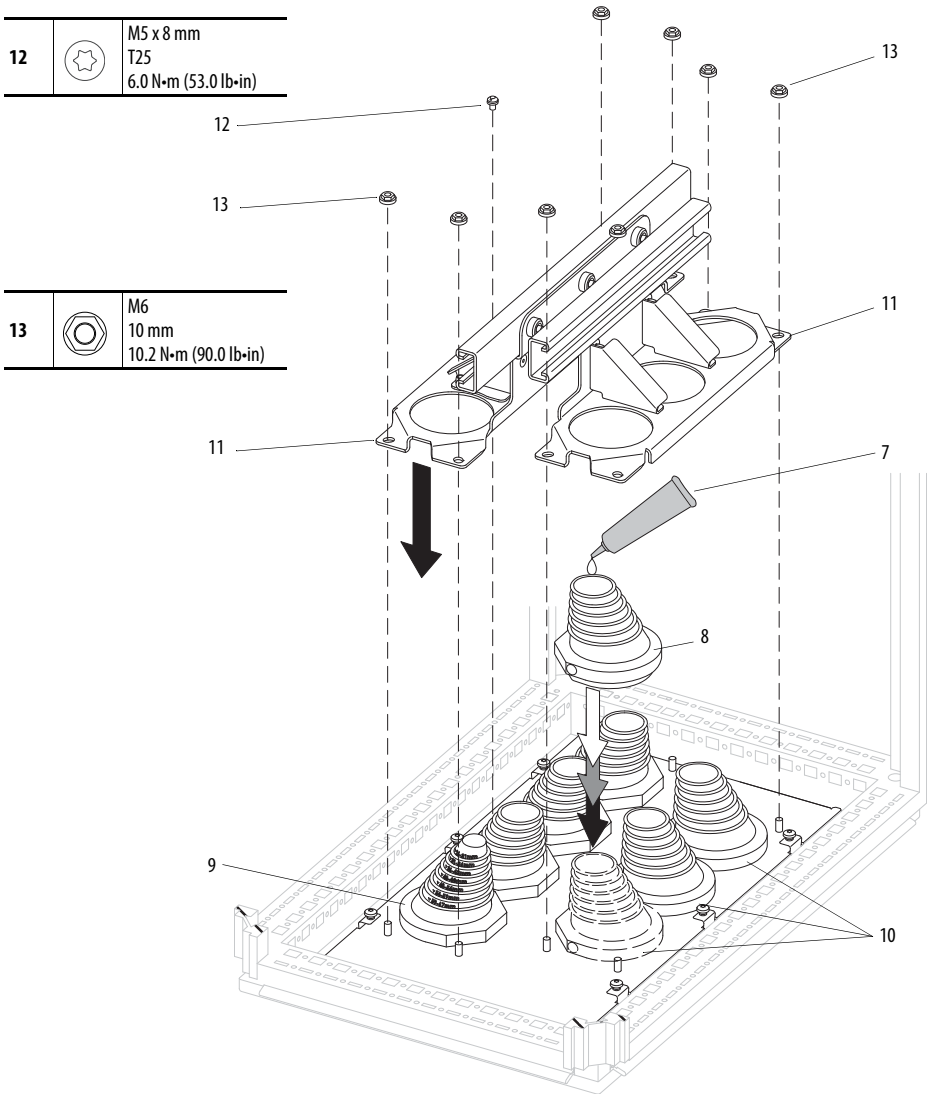


7. Apply a lubricant or talcum powder to the inside of each cut elastic grommet.
8. Insert the cut grommets into the appropriate holes in the gland plate.
9. Insert an uncut elastic grommet into any hole that will not contain a power cable.

IMPORTANT To maintain the IP54 rating obtained with the installation of these kits, a grommet must be installed in each opening of a bracket assembly. Openings in a bracket assembly that are not used for cable entry must contain an uncut grommet.

10. Verify that each grommet is seated properly in a hole on the gland plate.
11. Place each mounting bracket assembly over the grommets and onto the mounting studs on the gland plate.
12. For the wire bays kits, insert and tighten the M5 x 8 mm Torx screw in the hole mounting bracket.
    - The 400 mm (16 in.) wide wire bay four-hole mounting bracket requires one M5 x 8 mm Torx screw.
    - The 800 mm (32 in.) wide wire bay seven hole mounting bracket requires two M5 x 8 mm Torx screws.
13. Secure the corners of the mounting bracket assembly to the gland plate by using the M6 serrated nuts.

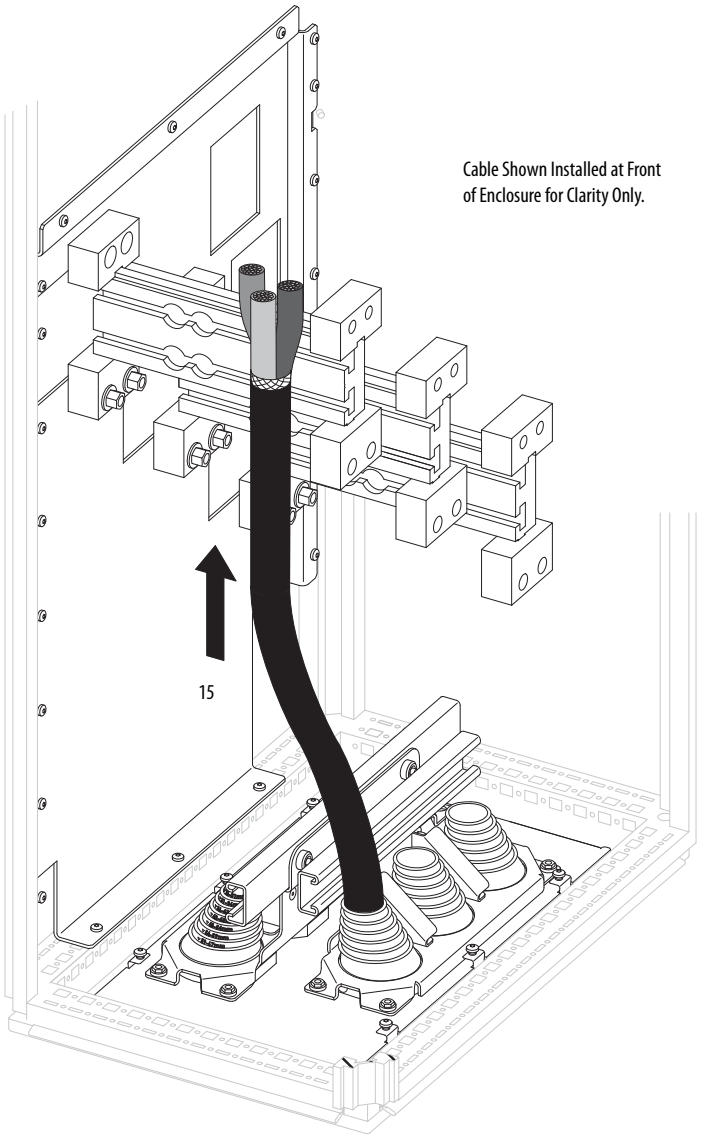
400 mm (16 in.) Wide Wire Bay Gland Plate Kit Shown.



14. Apply a lubricant or talcum powder to the exterior insulation of a three-conductor power cable where the cable will pass through the grommet.
15. Start at the back of the enclosure and carefully insert a power cable through the bottom of the enclosure, gland plate, and grommet.

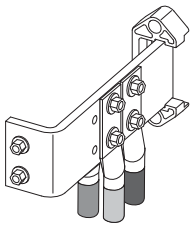
    Allow enough excess cable length to reach above the point where termination lugs will be installed on the terminal, slotted bus bar, or L-bracket.

400 mm (16 in.) Wide Wire Bay Gland Plate Kit Shown.

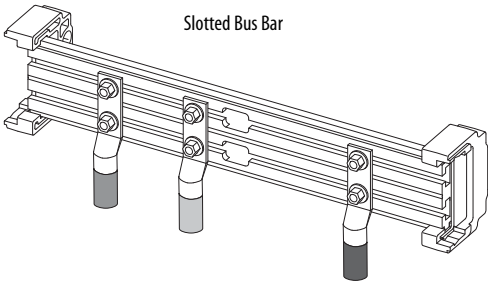


Possible Final Power Cable and Lug Installation Locations.

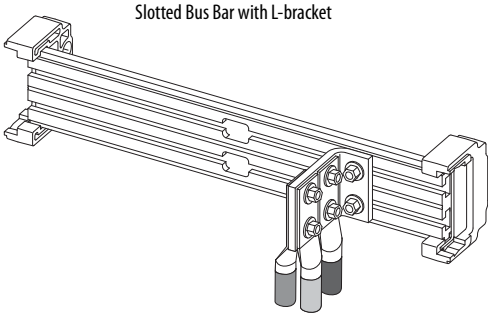
Bus Bar Terminal



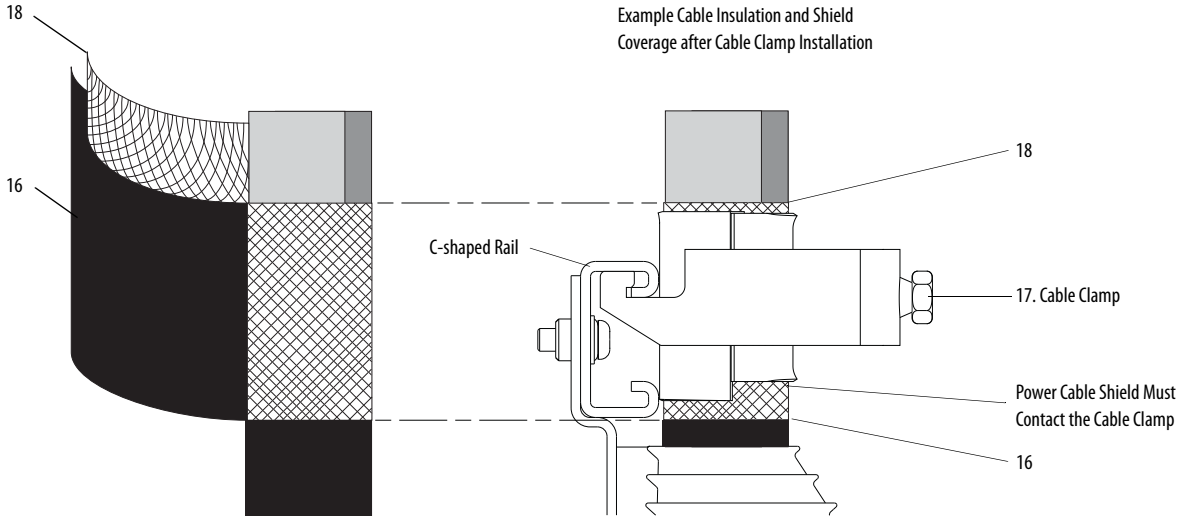
Slotted Bus Bar



Slotted Bus Bar with L-bracket

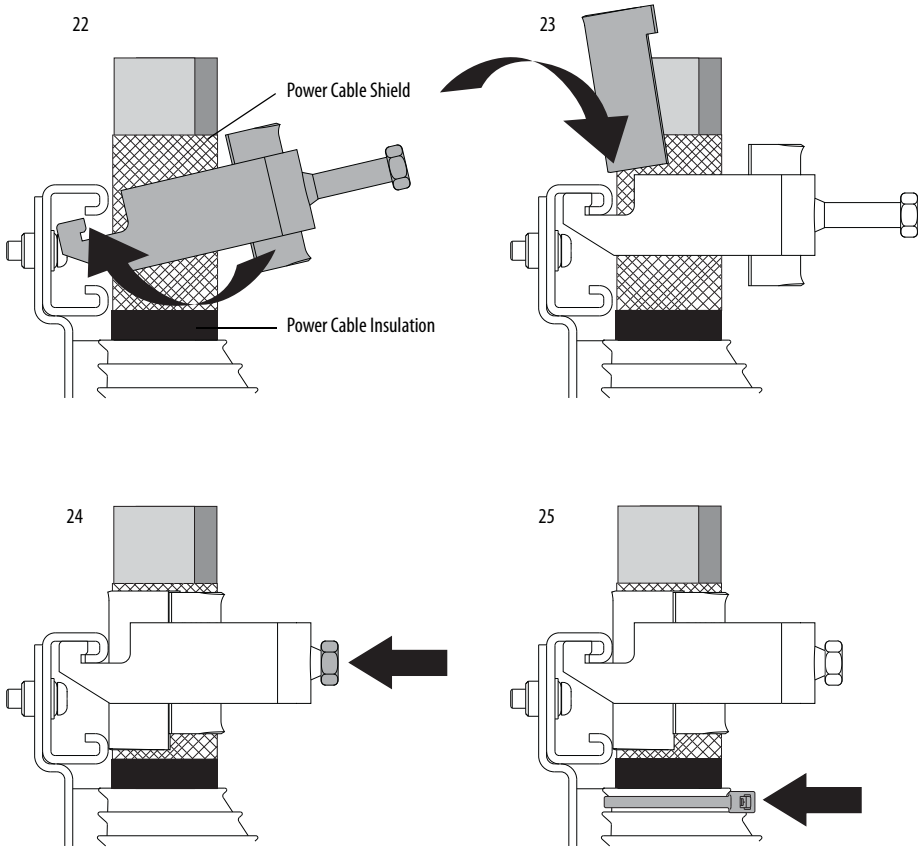


16. Cut and strip the exterior insulation from the power cable to a point just below the C-shaped rail on the mounting bracket.
17. Temporarily insert and hold a cable clamp over the power cable and mark the cable shield at the point just above the top edge of the clamp.
18. Cut and strip the cable shield to the marked point just above the cable clamp.

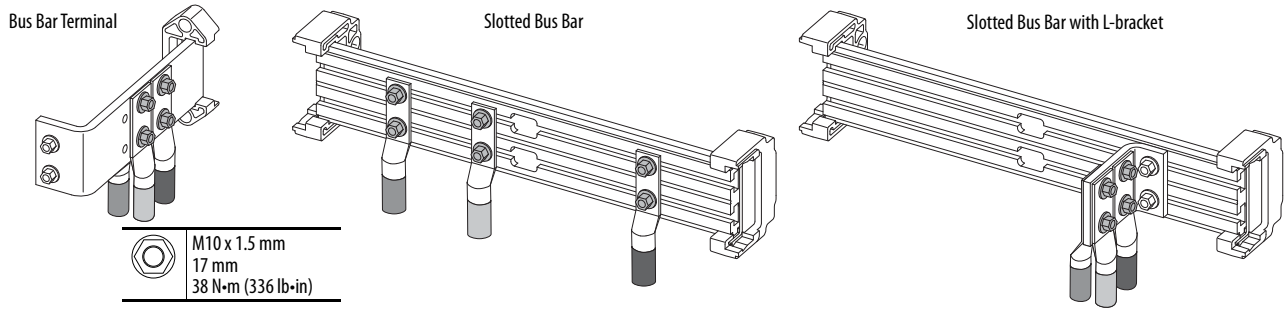


19. Mark the power cable to identify the terminal or bus bar installation location. For example: R/L1, S/L2, T/L3, or U/T1, V/T2, W/T3.
20. Repeat steps 14...19 for each additional power cable.
21. Thoroughly clean any lubricant or talcum powder off the power cables.

22. Place a cable clamp over a power cable and insert the ends of the clamp into the rail on the mounting bracket.
23. Place a counter-bed behind a power cable and above the cable clamp.
24. Verify that the cable clamp is securely locked into the rail and tighten the set screw.
25. Place a cable tie under the ridge of material below the cut on the grommet and tighten the cable tie.



26. Secure the PE ground cable (if used) to the ground bus bar.
27. Cut the power cables to the appropriate length.
28. Install a lug on the end of the power cable according to the lug manufacturer's instructions.
29. Install the fastening hardware and apply final torque to the lug connections.



30. Repeat steps 22...29 for each power cable and cable clamp.

See the PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication 750-IN100, for final ground and power cable installation instructions.

Make these periodic inspections of the EMC gland plate components and assemblies:

- Check the elastic grommets to verify they are not cracked or damaged. If a grommet is damaged, it must be replaced to maintain the IP54 rating.
- Check the gland plate hardware connections to verify that they are secured to the proper torque specifications.

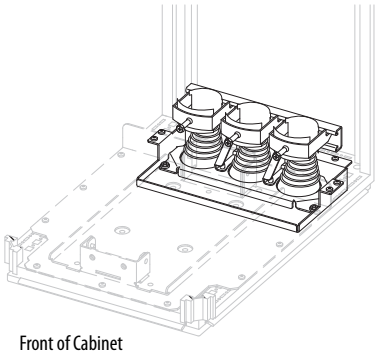
Install a Power Bay EMC Gland Plate and Cable Clamp Kit

Follow these steps to install the following EMC gland plate and cable clamp kit catalog numbers: 20-750-MEMCPLT-PBF8, 20-750-MEMCPLT-PB600, 20-750-MEMCPLT-PB800

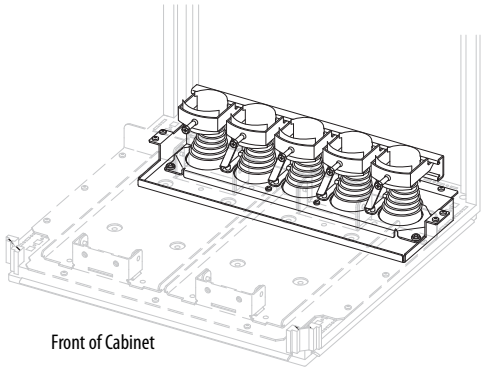
IMPORTANT Barrel lugs must be installed on the power cables before completing this installation. See the PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication 750-IN100, for details on power wiring terminations.

1. Remove all LCL filter and/or power modules from the enclosure. For instructions on how to remove the LCL filter and power modules, see Chapter 4 - Mechanical and Electrical Installation in publication 750-IN100.
2. Cut the elastic grommets to the appropriate size for your power cables. See Prepare the Elastic Grommets for Installation on page 8.
3. Remove the existing conduit plate from the bottom of the enclosure. Do not reuse the hardware from this plate.
4. Insert the EMC gland plate into the bottom of the enclosure. Final gland plate kit orientation is shown here for reference.

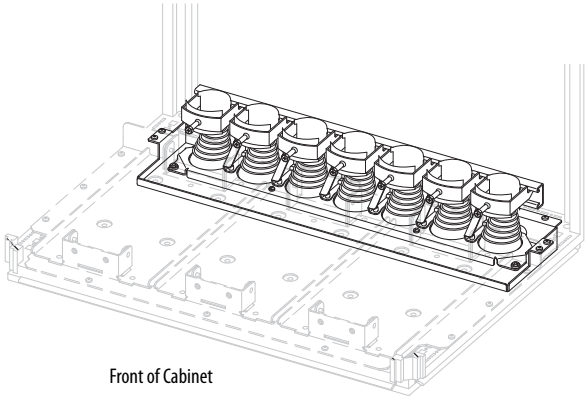
400 mm (16 in.) Wide Power Bay Gland Plate Kit (Cat. No. 20-750-MEMCPLT-PBF8)



600 mm (23.6 in.) Wide Power Bay Gland Plate Kit (Cat. No. 20-750-MEMCPLT-PB600)



800 mm (33 in.) Wide Power Bay Gland Plate Kit (Cat. No. 20-750-MEMCPLT-PB800)



5. Secure the gland plate to the bottom rails of the enclosure by using the 8 or 10 M5.5 x 13 mm self-tapping screws.

IMPORTANT If any of the mounting holes in the bottom rails of the enclosure were stripped when the existing conduit plate was removed, secure the new EMC gland plate to the bottom rails of the enclosure by using the M6 x 12 mm Torx screws provided with the kit. Final torque: 4.75 N•m (42 lb•in).

800 mm (32 in.) Wide Power Bay Gland Plate Kit Shown.

5		M5.5 x 13 T25 4.75 N•m (42.0 lb•in)

6. Apply a lubricant or talcum powder to the inside of each cut elastic grommet.
7. Remove the two or four M6 x 16 mm Torx screws that secure the C-shaped rail to the mounting bracket and remove the C-shaped rail. Retain the screws for reuse.

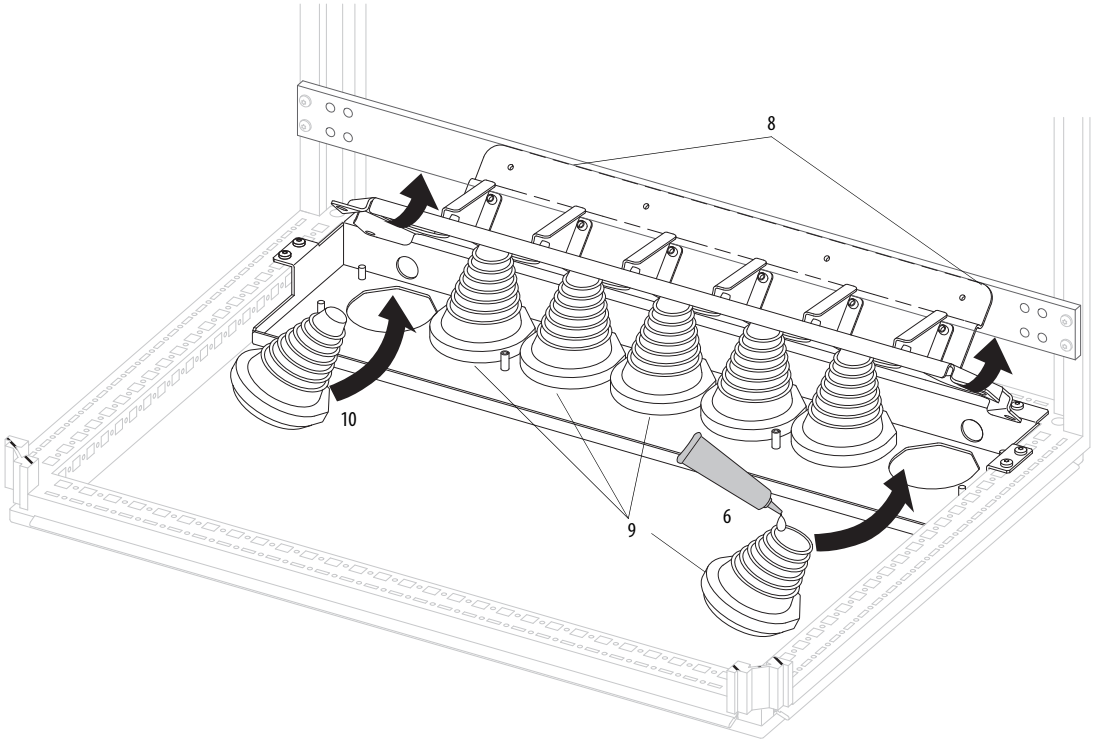
7		M6 x 16 mm T30

800 mm (32 in.) Wide Power Bay Gland Plate Kit Shown.

8. Insert the top, back edge of the mounting bracket assembly under the PE ground bus bar.
9. While holding the front of the bracket assembly up, insert the cut grommets into the appropriate holes in the gland plate.
10. While holding the front of the bracket assembly up, insert an uncut elastic grommet into any hole that will not contain a power cable.

IMPORTANT To maintain the IP54 rating obtained with the installation of these kits, a grommet must be installed in each opening of a bracket assembly. Openings in a bracket assembly that are not used for cable entry must contain an uncut grommet.

800 mm (32 in.) Wide Power Bay Gland Plate Kit Shown.



11. Verify that each grommet is seated properly in a hole on the gland plate.
12. Lower the bracket assembly from behind the ground bus bar, over the grommets and onto the mounting studs on the gland plate.
13. For 600 mm and 800 mm power bays, insert and tighten the two M5 slotted-torx screws in the top of the mounting bracket.
14. Secure the corner of the mounting bracket assembly to the gland plate by using the M6 serrated nuts.

13		M6 x 16 T30 10.2 N•m (90.3 lb•in)
14		M6 10 mm 10.2 N•m (90.0 lb•in)

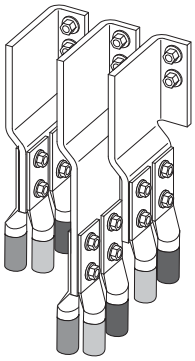
15. Secure the C-shaped rail to the mounting bracket assembly by using the two or four M6 x 16 mm Torx screws that were removed in step 7.

15		M6 x 16 mm T30 10.2 N•m (90.3 lb•in)

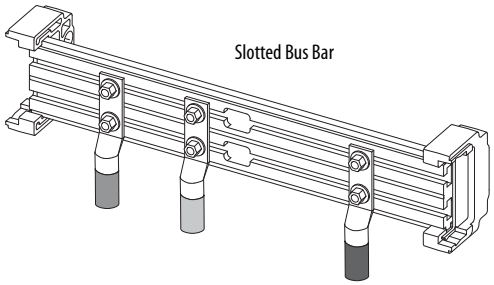
16. Apply a lubricant or talcum powder to the exterior insulation of a three-conductor power cable where the cable will pass through the grommet.
17. Carefully insert a power cable through the bottom of the enclosure, gland plate, and a grommet.

    Allow enough excess cable length to reach above the point where termination lugs will be installed on the terminal or slotted bus bar.

Possible Final Power Cable and Lug Installation Locations.

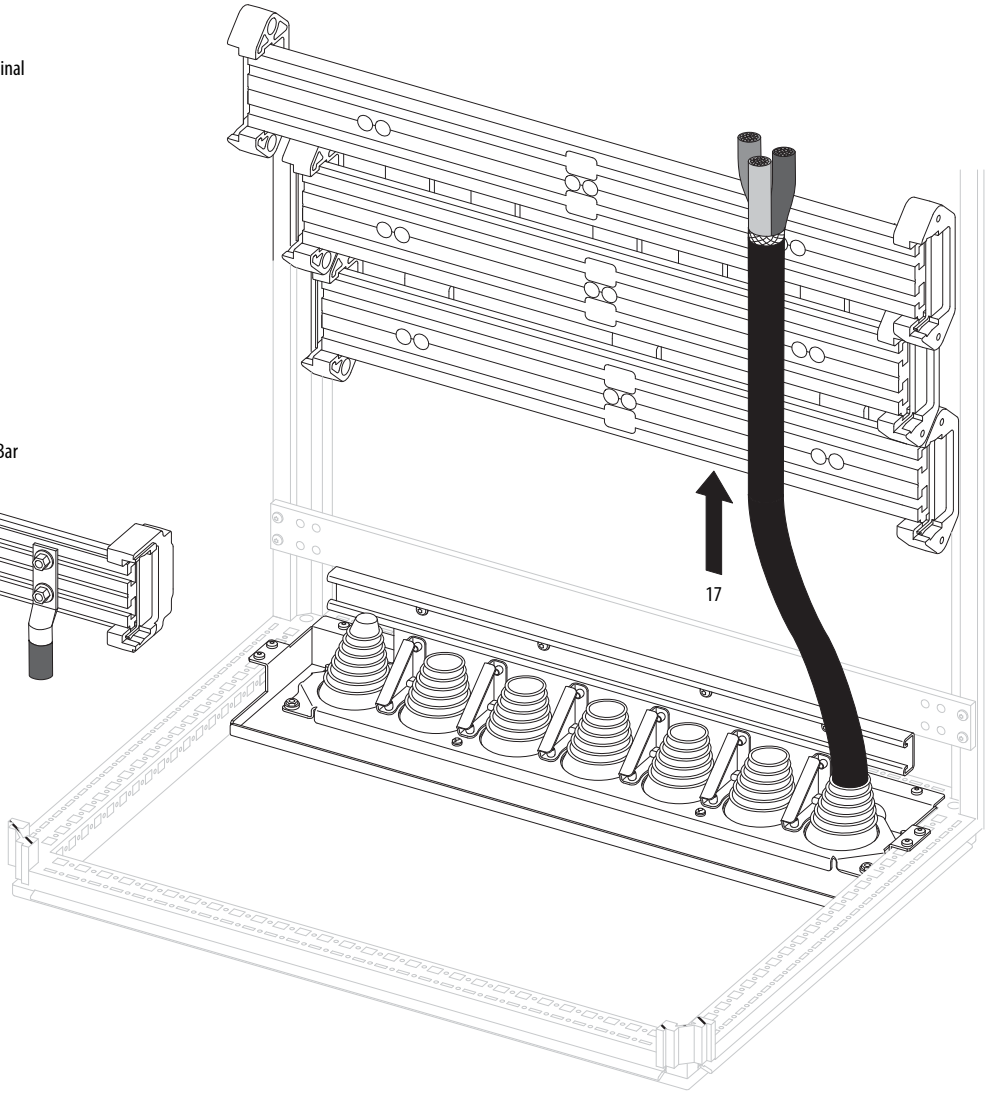


Bus Bar Terminal

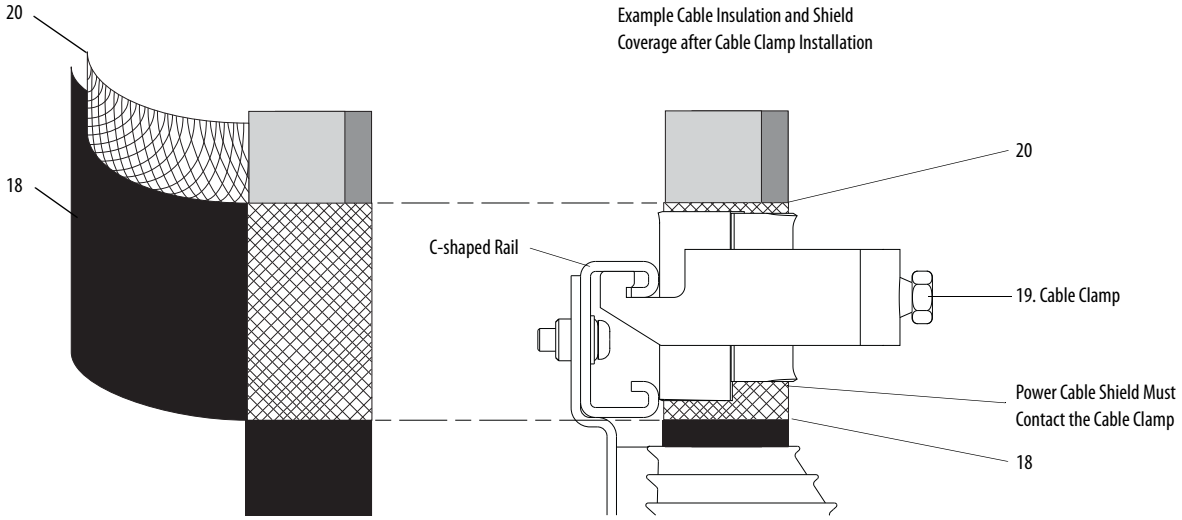


Slotted Bus Bar

800 mm (32 in.) Wide Power Bay Gland Plate Kit Shown.

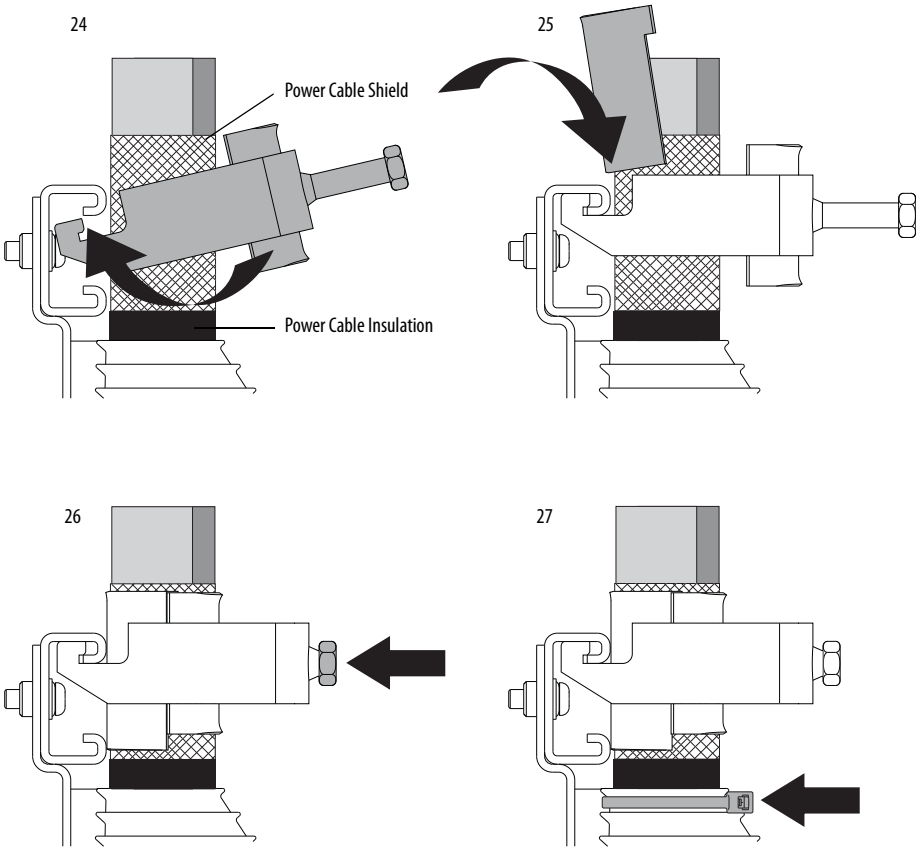


18. Cut and strip the exterior insulation from the power cable to a point just below the C-shaped rail on the mounting bracket.
19. Temporarily insert and hold a cable clamp over the power cable and mark the cable shield at the point just above the top edge of the clamp.
20. Cut and strip the cable shield to the marked point just above the cable clamp.

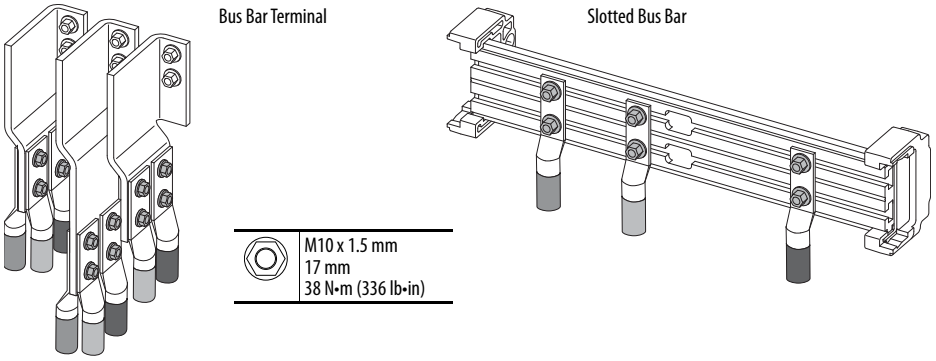


21. Mark the power cable to identify the terminal or bus bar installation location. For example: R/L1, S/L2, T/L3, or U/T1, V/T2, W/T3.
22. Repeat steps 16...21 for each power cable.
23. Thoroughly clean any lubricant or talcum powder off the power cables.

24. Place a cable clamp over a power cable and insert the ends of the clamp into the rail on the mounting bracket.
25. Place a counter-bed behind the power cable and above the cable clamp.
26. Verify that the cable clamp is in contact with the cable shield, is securely locked into the rail, and tighten the set screw.
27. Place a cable tie under the ridge of material below the cut on the grommet and tighten the cable tie.



28. Secure the PE ground cable (if used) to the ground bus bar.
29. Cut the power cables to the appropriate length.
30. Install a lug on the end of the power cable according to the lug manufacturer's instructions.
31. Install the fastening hardware and apply final torque to the power cable connections.



32. Repeat steps 24...31 for each power cable.

See the PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication 750-IN100, for final ground and power cable installation instructions.

Make these periodic inspections of the EMC gland plate components and assemblies:

- Check the elastic grommets to verify they are not cracked or damaged. If a grommet is damaged, it must be replaced to maintain the IP54 rating.
- Check the gland plate hardware connections to verify that they are secured to the proper torque specifications.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication 750-IN100	Provides the basic steps to install PowerFlex 755TL low harmonic drives, PowerFlex 755TR regenerative drives, and PowerFlex 755TM drive systems.
PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication 750-TD100	Provides detailed information on: • Drive and bus supply specifications • Option specifications • Fuse and circuit breaker ratings
PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication 750-TG100	Provides detailed information on: • Preventive maintenance • Component testing • Hardware replacement procedures
Industry Installation Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-AT003	Provides basic information on enclosure systems, considerations to help protect against environmental contaminants, and power and grounding considerations for installing Pulse Width Modulated (PWM) AC drives.
Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-IN001	Provides basic information to properly wire and ground PWM AC drives.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website: rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at http://www.rockwellautomation.com/global/literature-library/overview.page.

Rockwell Automation Support

Use the following resources to access support information.

Technical Support Center	Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.	https://rockwellautomation.custhelp.com/
Local Technical Support Phone Numbers	Locate the phone number for your country.	http://www.rockwellautomation.com/global/support/get-support-now.page
Direct Dial Codes	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	http://www.rockwellautomation.com/global/support/direct-dial.page
Literature Library	Installation Instructions, Manuals, Brochures, and Technical Data.	http://www.rockwellautomation.com/global/literature-library/overview.page
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	http://www.rockwellautomation.com/global/support/pcdc.page

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Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete the How Are We Doing? form at http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002_-en-e.pdf.

Rockwell Automation maintains current product environmental information on its website at http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page.

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