



Reenterable PST Dome Closure

Instructions

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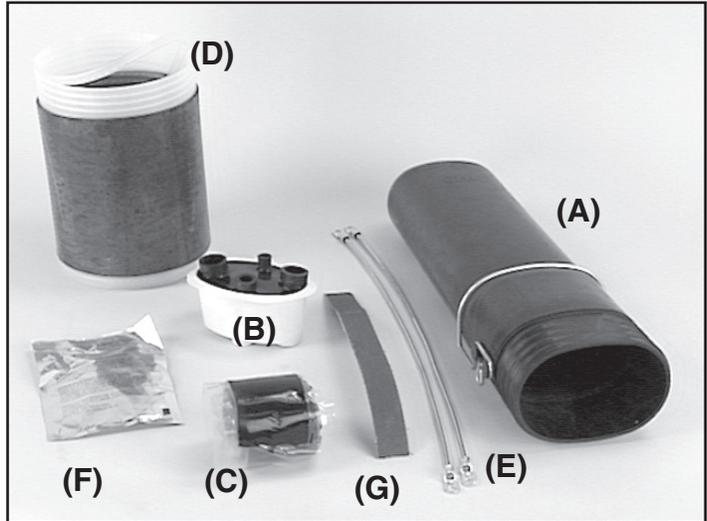
1.0 General

The 3M™ Reenterable PST Dome Closure is used for new and existing above-ground splices contained within a pedestal.

2.0 Kit Contents

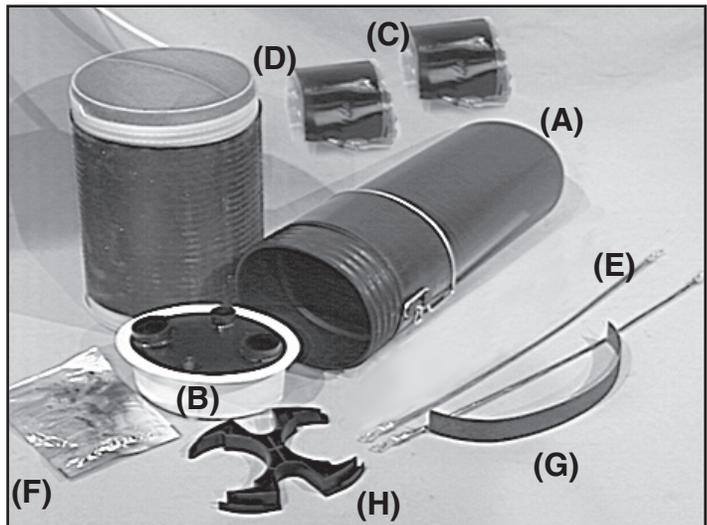
3M™ Reenterable PST Dome Closures 4604 and 4606

- A) Closure Assembly
 - Dome
 - Base
 - O-ring
 - Latch
- B) Gel End Seal Core
- C) Gel Sealing Strip
- D) PST
- E) Ground Wires
- F) Desiccant Bag
- G) Sheath Scuff



3M™ Reenterable PST Dome Closures 4608

- A) Closure Assembly
 - Dome
 - Base
 - O-ring
 - Latch
- B) Gel End Seal Core
- C) Gel Sealing Strips
- D) PST
- E) Ground Wires
- F) Desiccant Bag
- G) Sheath Scuff
- H) Base Plate



Note: Visually inspect all components. If any component is missing or appears damaged, do not install and call 3M customer service at 1-800-426-8688 for a replacement product.

2.1 Additional Materials Required

Vinyl Tape
Shield Bond Connectors
Splice Connectors

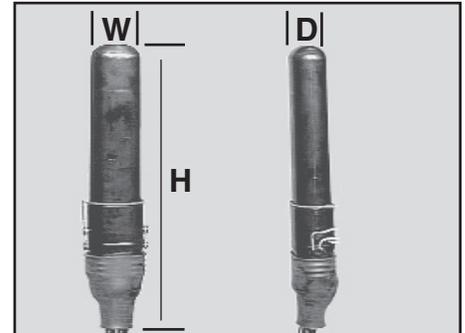
Note: All components must be installed per instructions to be effective.

3.0 3M™ Reenterable PST Dome Closure Capacity

	4604	4606	4608
Closure (W x D) Outside Dim.	3.8" x 2.8" (97 x 71 mm)	5.6" x 3.9" (142 x 99 mm)	7.0" x 5.4" (178 x 137 mm)
Closure Height (H)	22.5" (572 mm)	22.5" (572 mm)	23.5" (597 mm)
Approx. Bundle Diameter	2.5" (64 mm)	3.9" (99 mm)	5.3" (135 mm)
Minimum Reliable CAD Pedestal	4	6	8
Main Cables	0.5" - 1.1" (13 - 28 mm)	0.9" - 1.6" (23 - 41 mm)	1.4" - 2.5" (36 - 64 mm)
Terminal Cables	0.4" - 0.6" (10 - 15 mm)	0.4" - 0.6" (10 - 15 mm)	0.4" - 0.8" (10 - 20 mm)
Branch Cables	-	0.7" - 1.0" (18 - 25 mm)	0.9" - 1.3" (23 - 33 mm)
Drop Cables	0.35" max (9 mm) max 2 max	0.35" max (9 mm) max 2 max	0.35" max (9 mm) max 2 max
*Approx. Splice Range	100 pr. - MS ² 50 pr. - UR	300 pr. - MS ² 100 pr. - UR	600 pr. - MS ² 300 pr. - UR

**Note: Based on two-bank 3M™ MS²™ Splicing Module 4000-DWP and 3M™ Scotchlok™ Connectors installed per 3M practices. Examples: 100 pair means 100 pair In and 100 pair Out or 100 pair straight splice.*

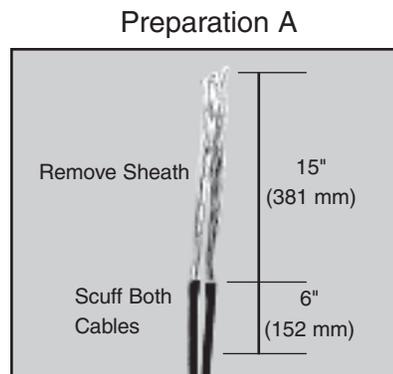
3.1 Overall closure dimensions
(See Reenterable PST Dome Closure Capacity Chart).



4.0 Cable Preparation

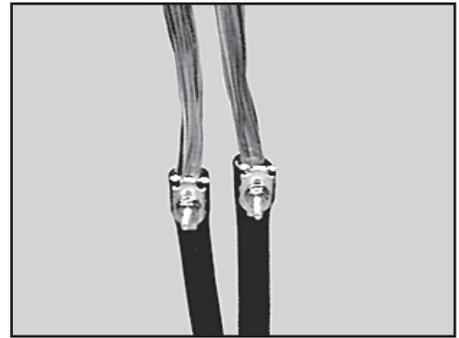
4.1 Remove sheath and scuff both cables as noted for the following closure sizes.

Preparation A: 3M™ Dome Closures
4604, 4606, 4608

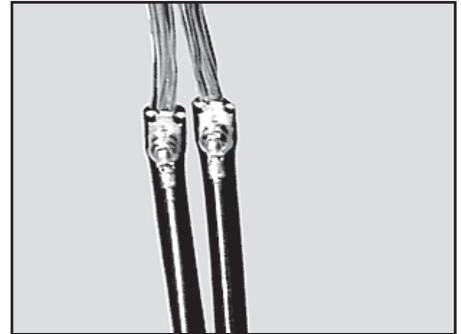


5.0 Bonding and Grounding

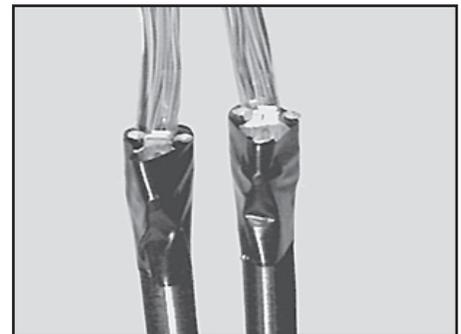
5.1 Install bonding connectors per system practice. Bonds should be placed so that the studs of the connectors are facing forward.



5.2 Install external ground wires to bonding connector studs and run along the cables.



5.3 Insulate bonding connectors by wrapping with vinyl tape.



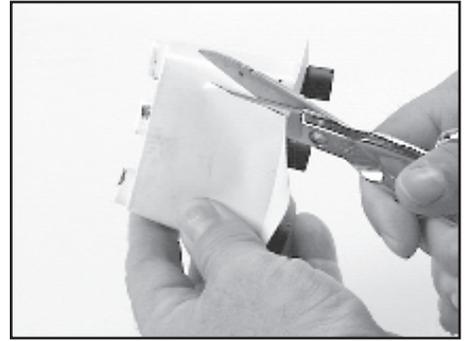
6.0 Splicing

6.1 Splice per company practice.

6.2 Splice in tail of a terminal block when required.

7.0 3M™ Reenterable PST Dome Closure 4604 and 4606 Installation

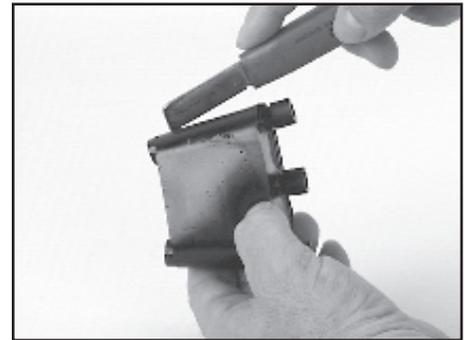
7.1 Cut and remove packaging from gel end seal core.



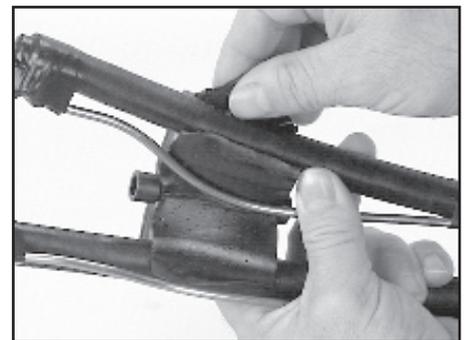
7.2 Slit gel end seal ports along the length of plugs for desired number of cables to be installed and remove plugs.

Use plugs 1 and 2 for main cables and plug 3 for branch or terminal cable.

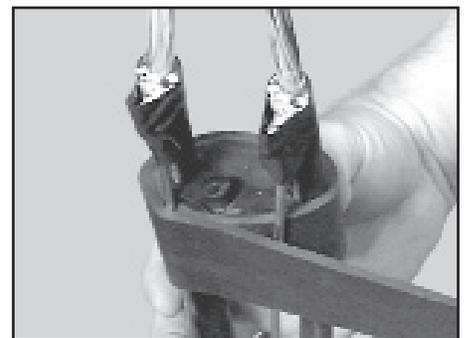
Note: A fourth plug is available on the 4606 closure.



7.3 Install gel end seal core 2" (51 mm) below the sheath opening. Pull lips of seal, created by cutting and removing plug, around cables. Remove packaging from gel sealing strip. Wrap the gel sealing strip around the core and ground wires with a slight tension.

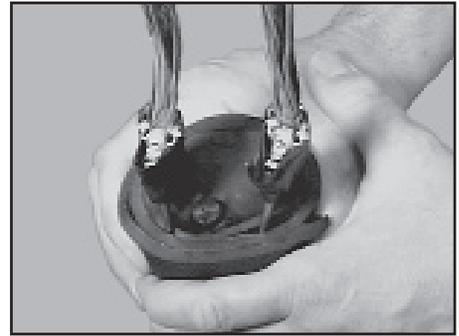


Note: Place ground wires and drop wires between layers in gel sealing strip. Ensure wires have one layer of gel between them and cable sheath. There should be at least 0.25" (6 mm) between wires.



7.4 Squeeze gel end seal to insure a seal between layers and cables.

Note: *Closure assembly must rest on end seal when placed over the splice. Move end seal upward, if necessary.*



7.5 Cut off top of foil bag which contains desiccant at dotted line and secure bag at base of wire work area with a cable tie.

Note: *Carefully follow health, safety and environmental information given on product label or Material Safety Data Sheet for desiccant bag.*



7.6 Remove cardboard insert and pull core tail through the center of 3M™ Reenterable PST Dome Closure until core is even with PST tube edge.



7.7 Slide PST tube over closure so that PST tube tail is pointed toward the top of the closure. The core tail MUST be unwound upward. Position PST tube bottom edge between the bottom of the wire form latch and the base's top rib.

Note: *Optional method is to put closure over the splice bundle and position PST 2" (51 mm) below the gel end seal. While holding the PST and closure with one hand, unwind the core by pulling on the core tail with the other hand in an upward and outward COUNTERCLOCKWISE direction.*

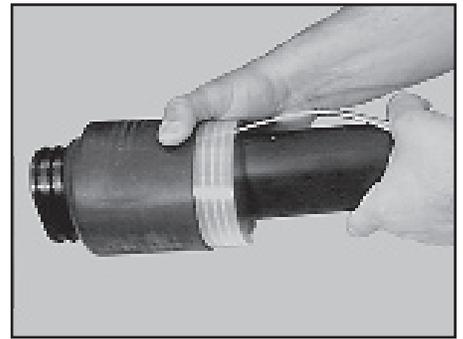


7.8 While holding the 3M™ Reenterable PST Dome Closure and closure with one hand, unwind the core by pulling on the core tail with the other hand in an upward and outward COUNTERCLOCKWISE direction until approximately 0.5"(13 mm) of the PST is shrunk onto the closure.



7.9 Push PST tube towards bottom of closure. This will invert the PST tube.

Note: Do not force the PST to slide on the closure during inversion.



7.10 Pull the core material from the PST tube until the PST tube is even with the bottom of the closure.



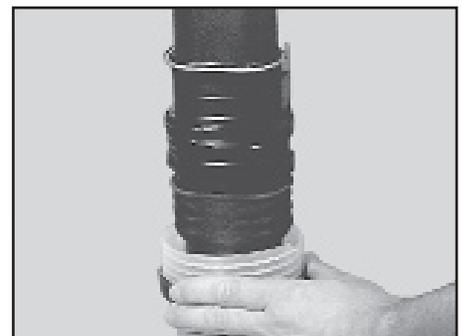
7.11 Place assembly over splice and onto gel end seal. Insure the wire-form latch and the 3M logo are facing forward.



7.12 Continuously push PST tube downward while pulling the rest of the core material.

7.13 When the PST tube is in place, remove the core wrap from around the cable.

7.14 For pedestal closure applications, secure the closure to pedestal, mount terminal block and connect ground wires according to system practice.



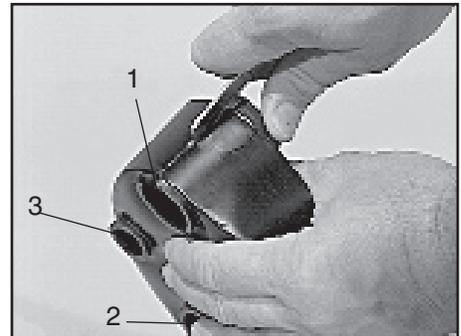
8.0 3M™ Reenterable PST Dome Closure 4608

8.1 Cut and remove packaging from gel end seal core.



8.2 Slit gel end seal ports along the length of plugs for desired number of cables to be installed. Remove plugs.

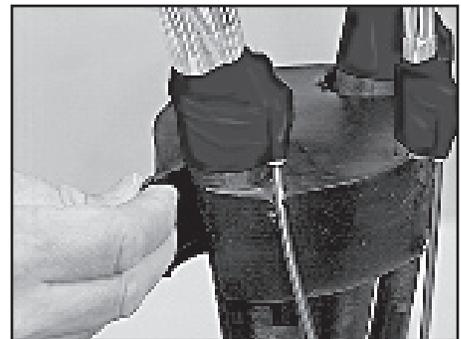
Use plugs 1 and 2 for main cables and plugs 3 and 4 for branch or terminal cables.



8.3 Install gel end seal core 2" (51 mm) below the sheath opening. Pull lips of seal, created by cutting and removing plug, around cables.

8.4 Cut a 1/4" deep slot in gel seal core and seat the ground wire in slot.

Note: *Slot should not break through to cable openings. One ground wire per slot.*



8.5 Remove packaging from shorter gel sealant strip. Wrap the gel sealant strip around the core and ground cable slots with a slight tension.

8.6 Repeat step 8.5 with longer gel strip overlapping first strip 1-2 inches.

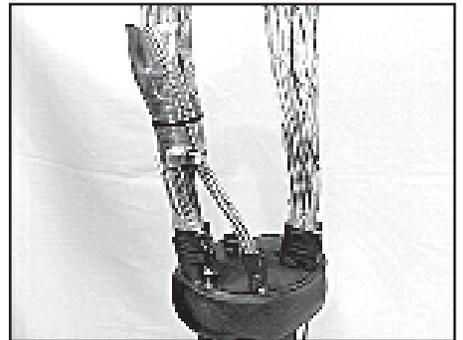
8.7 Squeeze gel end seal to insure a seal between layers and cables.

Note: *Closure assembly must rest on end seal when placed over the splice. Move end seal upward, if necessary.*



8.8 Cut off top of foil bag which contains desiccant at dotted line and secure bag at base of wire work area with a cable tie.

Note: *Carefully follow health, safety and environmental information given on product label or Material Data Sheet for desiccant bag.*



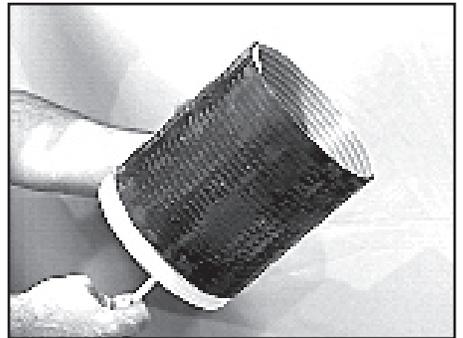
8.9 Place base plate as illustrated between the cables on top of the end seal with the outside ribs facing upward.

Note: *In order to fit 600 pair or larger cable, it may be necessary to pull the cables together with tape or cable ties.*

Ribs

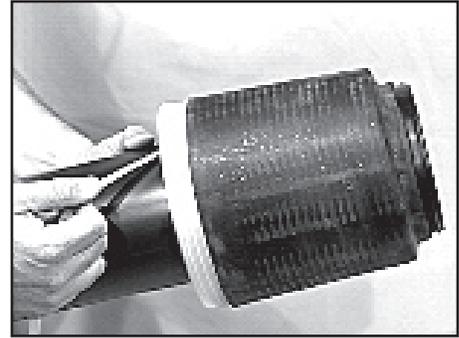


8.10 Remove cardboard insert and pull core tail through the center of 3M™ Reenterable PST Dome Closure until core is even with PST tube edge.



8.11 Slide 3M™ Reenterable PST Dome Closure over closure so that the PST tube tail is pointed toward the top of the closure. The core tail MUST be unwound upward. Position PST tube bottom edge within 0.5" (13 mm) of the bottom of the base.

Note: Optional method is to put closure over the splice bundle and position PST tube 2" (51 mm) below the gel end seal. While holding the PST tube and closure with one hand, unwind the core by pulling on the core tail with the other hand in an upward and outward COUNTERCLOCKWISE direction.



8.12 While holding the PST tube and closure with one hand, unwind the core by pulling on the core tail with the other hand in an upward and outward COUNTERCLOCKWISE direction until approximately 2.0" (51 mm) of the PST tube is shrunk onto the closure.



8.13 Place assembly over splice and onto gel end seal. Insure the wire-form latch and the 3M logo are facing forward. Mate the plate with the base.



8.14 Push PST tube towards bottom of closure. This will invert the PST tube.



8.15 Continuously push PST tube downward while pulling the rest of the core material.

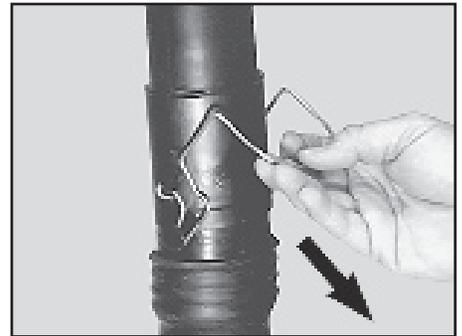
8.16 When the PST tube is in place, remove the core wrap from around the cable.

8.17 For pedestal closure applications, secure the closure to pedestal, mount terminal block and connect ground wires according to system practice.



9.0 Closure Re-entry

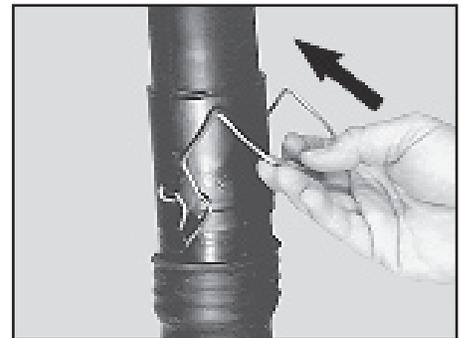
- 9.1 Re-entry of closure is accomplished by pulling out and pushing down the wire form latch. The latch will lift the dome of the closure from the base as it is pulled.



- 9.2 To replace the closure dome, PLACE dome on to the base. Close the wire form latch, insuring that it catches the protrusions on the dome.

Note: Wipe O-ring clean if dirty and relubricate. Cable grease is acceptable.

Note: Replace desiccant bag if necessary. Replacement bags can be obtained from 3M, order #78-8054-9675-5.



10.0 Retrofit on PST Pedestal Splice Closures

- 10.1 Existing 3M™ PST Pedestal Splice Closures can be converted to reenterable closures by using the following procedures.

Cut PST tube from top to bottom and pull it away from the closure body and sealing collar.



- 10.2 Remove vinyl tape from butt of closure and slide closure off.

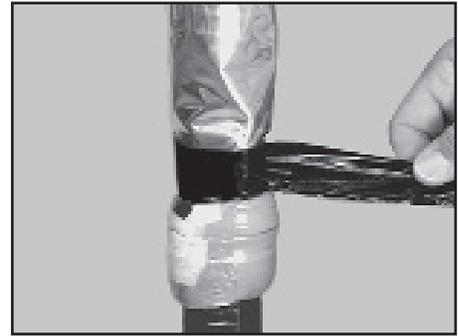


10.3 Remove vinyl tape from foil bag and slide foil bag off splice.

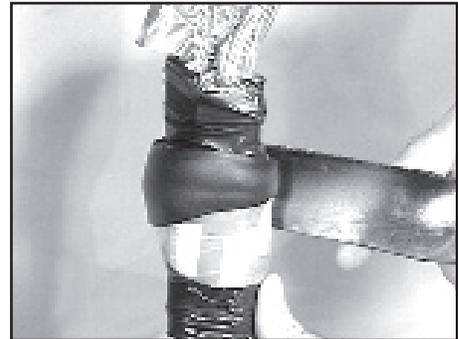
Note: *The foil bag is not required in the reenterable dome closure.*

10.4 After completing repair, take gel sealing strip and remove the packaging.

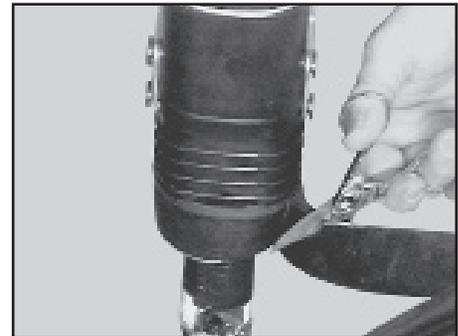
Note: *For 3M™ Closures 4608 use gel sealant strip only.*



Wrap the gel sealing strip around the existing mastic end seal. Place new dome closure on the seal.



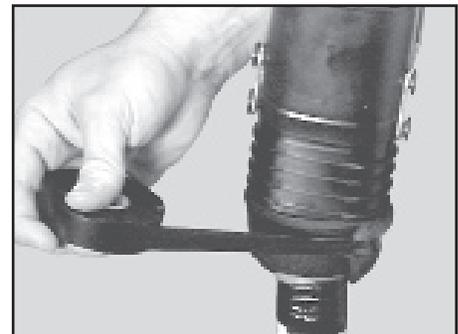
10.5 If more than one wrap of gel is visible, trim the strip, and rewrap. Repeat until only one wrap of gel is visible. A 3M™ Gel Sealant Strip 4600GSS may be necessary to build the seal to the proper size.



10.6 Wrap vinyl tape that is less than 1" (25 mm) wide around seal to hold tail in place, if necessary.

Note: *Do not completely cover the outside surface of the seal with tape.*

Note: *For 4608 closure, base plate is not required.*



10.7 Complete assembly as outlined in the installation procedures.

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