

SEALING CAPS

Sealing caps are used to protect contacts in unmated connectors.

Plug caps also contain gasket that provides an environmental seal when cap is threaded tight on plug.

If environmental seal is required for receptacles, install sealing ring supplied in package on mating surface in receptacle before threading cap on.

On panel mounted connectors, secure end of cap chain with one of the panel mounting screws. On cable mounted connectors secure end of cap chain to cable with cable tie supplied.

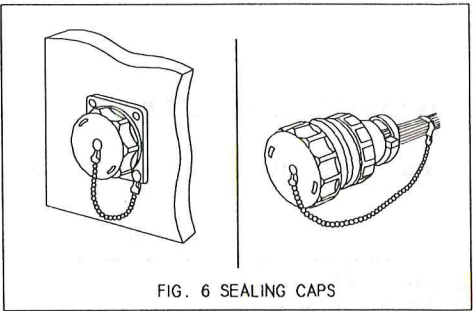


FIG. 6 SEALING CAPS

CAUTION: Not for interrupting current.
ATTENTION: Ne pas utiliser pour couper le courant.

IMPORTANT:
Thomas & Betts shall have no liability for any loss, costs or damages incurred by the user in the event of misuse of this product or failure to follow all instructions. This exclusion of liability is in addition to all other limitations and exclusions of liability contained in Thomas & Betts Standard Warranty statement.

STANDARD WARRANTY:

Thomas & Betts manufactures its goods and tools in a manner to be free of defects. Should any defect occur and be promptly notified within 90 days (in the case of tools) or two years (in the case of other goods) from date of delivery by Thomas & Betts, it will, at its option, either exchange or repair the tools or other goods or refund the purchase price.

LIMITATIONS AND EXCLUSIONS:

This warranty is in lieu of all other representations and expressed and implied warranties and conditions statutory or otherwise (including the implied warranties of merchantability and fitness for purpose) and under no circumstances shall Thomas & Betts be liable for any incidental or consequential damages or loss. This shall not, however, apply to death or personal injury resulting from the negligence of Thomas & Betts.

TRIAD™10 CIRCULAR PLASTIC CONNECTORS & ACCESSORIES FOR USE WITH SIZE 16 CONTACTS

Shell Size	Contact Arrangement	Type Contact	Receptacles		Plug	Backshell Cable Clamp	Cable Entry Seal	90° Adaptor	Protective Caps	
			Panel Mount	Cable Mount					Receptacle	Plug
11	 11-4 MAX. INS. DIA. .125	PIN SOCKET	T1130-P04 T1130-S04	T1120-P04 T1120-S04	T1110-P04 T1110-S04	T118SR-33 (.330 Dia.) T118SR-45 (.450 Dia.)	T118ES-26 (.260-.600 Dia.)	M118-90	T118DCR	T118DCP
17	 17-9 MAX. INS. DIA. .155	PIN SOCKET	T1730-P09 T1730-S09	T1720-P09 T1720-S09	T1710-P09 T1710-S09	T178SR-45 (.450 Dia.) T178SR-70 (.700 Dia.)	T178ES-40 (.400-.875 Dia.)	M178-90	T178DCR	T178DCP
	 17-14 MAX. INS. DIA. .125	PIN SOCKET	T1730-P14 T1730-S14	T1720-P14 T1720-S14	T1710-P14 T1710-S14					
23	 23-24 MAX. INS. DIA. .155	PIN SOCKET	T2330-P24 T2330-S24	T2320-P24 T2320-S24	T2310-P24 T2310-S24	T238SR-70 (.700 Dia.) T238SR-112 (1.125 Dia.)	T238ES-55 (.550 - 1.100 Dia.)	M238-90	T238DCR	T238DCP
	 23-37 MAX. INS. DIA. .125	PIN SOCKET	T2330-P37 T2330-S37	T2320-P37 T2320-S37	T2310-P37 T2310-S37					

NOTES:

- 1. Use keying plug Cat. No T9KP16 for keying connectors when required.
- ▼ Packaged loose piece. Kit contains plastic body, saddles and two screws. (T118SR-33 has one saddle, all others supplied with two.)
- Contains pre-shrunk sleeve and metal body subassy, and sealing ring. Use on jacketed cable only.
- * Kit contains metal adapter body, two gaskets, eight screws with lock washers and four nuts.
- Plastic protective caps with bead chain. Ty-Rap® cable tie also included for tying chain in cable mounts.

ASSEMBLY INSTRUCTIONS

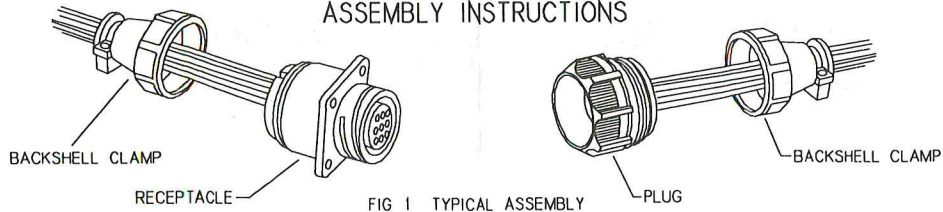


FIG 1 TYPICAL ASSEMBLY

A. CONNECTOR ASSEMBLY PROCEDURE

1. PLACE BACKSHELL OVER CABLE

(Threads facing contacts)

2. LOAD WIRES WITH CONTACTS INTO CONNECTOR

CAUTION:

It is necessary that contacts be placed into correct locations to maintain circuit integrity. Front and rear surfaces of contact section have numbers adjacent to holes to identify wire locations.

Connector is to be less than fully loaded, leave inner portion of contact arrangement unfilled - except where otherwise required, as in polarizing.

INSTALL CONTACTS AS FOLLOWS:

1. Locate correct hole on back surface of connector.
2. Grasp wire behind contact and place into hole from back side, see Fig. 2.

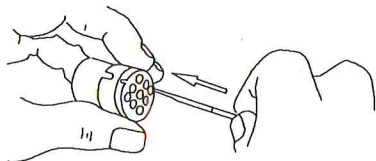


FIG. 2

3. Push contact in until seated. Give wire a light tug after inserting to confirm that contact is fully seated.
 4. Repeat process with each wire. Recommended practice is to load inner holes first, then outer holes.
- NOTE: If contact is incorrectly placed, remove it using Cat. No. TRT16 extraction tool. Cut contact off wire and install a new one. Do not re-use contacts after extraction.

3. ASSEMBLE BACKSHELL ON CONNECTOR

Refer to paragraph D for assembly instructions applicable to backshell selected.

B. RECEPTACLES

1. FRONT PANEL MOUNTED

- a. Place gasket against receptacle flange if required. Insert hub into panel cut-out and secure flange to panel with appropriate mounting screws and nuts.

- b. Follow connector assembly procedure A1, 2, 3 to complete installation.

2. REAR PANEL MOUNTED

- a. Place gasket against front face of flange if required. Insert front end of receptacle into panel cut-out from inside of panel and secure.

NOTE:

Do not use rear mounting if panel thickness exceeds 1/8" (including gasket if used).

- b. Follow connector assembly procedure A1, 2, 3 to complete installation.

- c. Optional method: Assemble receptacle on wire harness first, then mount from inside at panel cut-out location.

C. CABLE MOUNTED

Follow connector assembly procedure A1, 2, 3.

C. PLUGS

Follow connector assembly procedure A1, 2, 3.

NOTES:

- a. Free spinning plug gland nut covers most of body and makes it difficult to tighten backshell. Use a mating receptacle body as a wrench to keep plug body from rotating while tightening backshell.

- b. When coupling plug to receptacle, turn gland nut all the way until it overrides locking detent and comes to stop.

D. BACKSHELLS & ACCESSORIES

BACKSHELL CABLE CLAMPS

Backshell cable clamps are supplied with two saddles that provide a wide clamping range (exception - smallest size, Cat. No. T118SR-33 has one saddle). Clamping area is adjusted by inverting or changing saddles.

INSTALL CABLE CLAMP AS FOLLOWS

1. Select the saddle that provides suitable clamping for cable or wire harness being used. Place saddle into backshell slot and attach with two screws. Do not tighten, let saddle float. Slide assembly over cable with threads facing contacts.
2. Assemble connector. Refer to paragraph A1, 2, 3.
3. Thread backshell onto connector hub until tight.
4. Clamp cable by tightening two saddle screws.

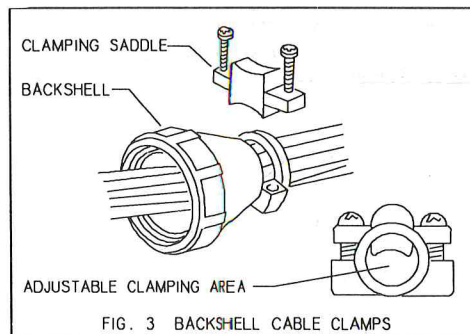


FIG. 3 BACKSHELL CABLE CLAMPS

BACKSHELL CABLE ENTRY SEAL

1. Place sealing ring in bottom of backshell thread cavity and press against shoulder. Slide assembly over cable with threads facing contacts.
2. Assemble connector. Refer to paragraph A1, 2, 3.
3. Thread backshell onto connector hub until tight.
4. Shrink sleeve as follows:

- a. Use heat gun with air deflector nozzle such as T & B Cat. No. WT1400 electric heat gun.

- b. Adjust air deflector opening to accommodate tubing size. Turn switch on. Wait until full heat output is reached.

- c. Position air deflector over section of tubing to be shrunk. Start at pre-shrunk section and work toward open end.

- d. When tubing begins to shrink, move gun so that air is distributed in a band around the tubing circumference causing it to shrink evenly around cable.

- e. Move nozzle to adjacent section and shrink in the same manner. Repeat process one section at a time until entire length is shrunk.

5. Avoid excessive heat. Direct heat away from connector assembly to prevent damage.

NOTE: Do not use torch.

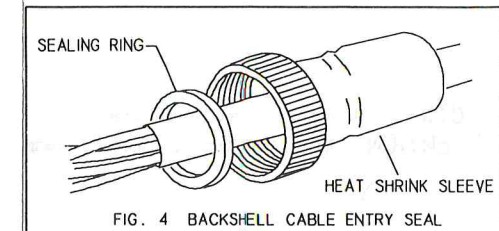


FIG. 4 BACKSHELL CABLE ENTRY SEAL

90° ADAPTER

MOUNT ADAPTER AS FOLLOWS:

1. Place gasket between panel and adapter flange at panel cut-out, and secure with mounting screws and nuts supplied.
2. Snake wire harness through adapter.
3. Place second gasket against back of receptacle flange.
4. Assemble receptacle connector. Refer to paragraph A1, 2.
5. Pull wire harness back carefully until receptacle is seated against adapter mounting surface. Avoid pulling excessively to prevent strain on contacts.
6. Secure receptacle to adapter with screws supplied.

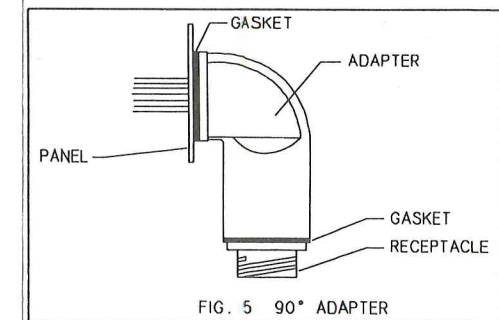


FIG. 5 90° ADAPTER