

POLAMCO TAK ADAPTORS WITH HEATSHRINK SCREENED KITS INSTALLATION GUIDE (TUBING AND BOOTS) – STRAIGHT ADAPTORS

1.1. Slide Screened Adaptor kit onto the cable.

1.2. Cut back the cable jacket and braid to allow termination of the conductors to the connectors. The recommended lengths depend on the entry size/boot size and are given in Table 1. Allow an extra 15mm if service loops are required.

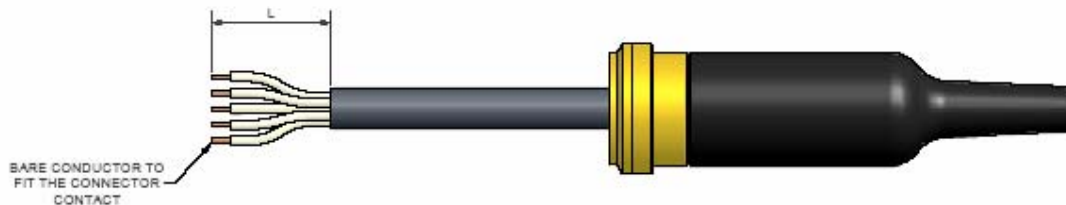


Table 1. Initial Cable Strip Back Dimension L

Entry Size	L (mm)
05	35
08	45
10	45
12	45
14	55
16	55
20	65
24	75

1.3. Terminate the conductors to the connector in the appropriate way.

1.4. Slide the Screened Adaptor Kit down the cable and temporarily secure it to the connector. Mark the cable where the heat shrink boot ends.



1.5. Release the Screened Adaptor Kit and slide it back down the cable. Take dimension A from Table 2 and mark the cable this distance back towards the connector from the initial mark made in step 4. Strip back the cable jacket to this mark to expose the braid.

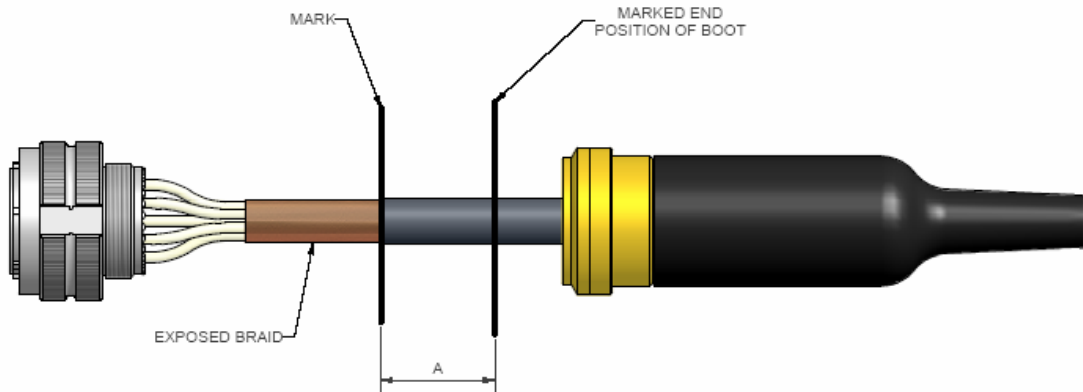
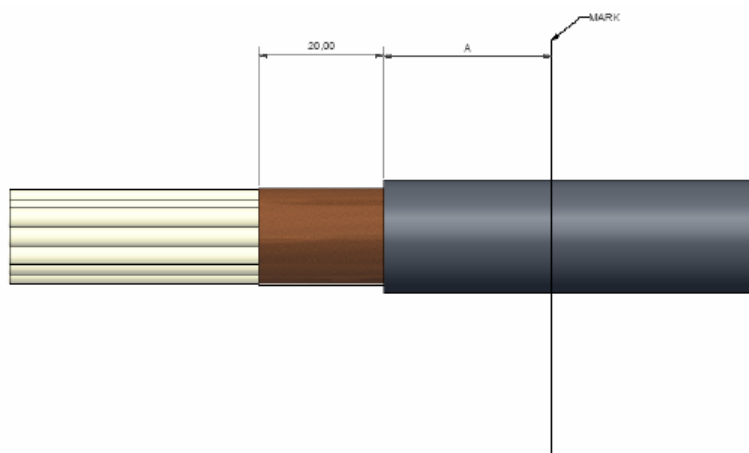


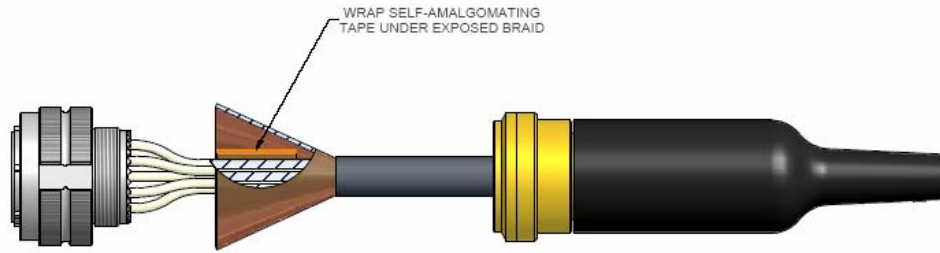
Table 2. Boot Adhesion Length A

Entry Size	A (mm)	A(mm) Unscreened
05	10	25
08	12	30
10	12	30
12	15	40
14	15	40
16	15	40
20	20	50
24	20	50

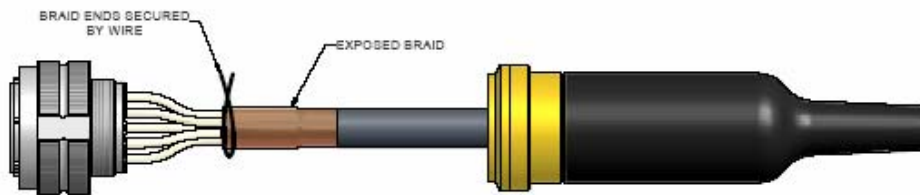
1.6. Cut back the cable braid leaving 20mm exposed from the end of the cable jacket.



1.7. Either fold back or bunch up the cable braid to expose the wires beneath it, and use self-amalgamating tape to pack out the exposed braid.



Replace and secure the ends of the braid with tinned copper wire. It is important that the ends of the wire are flat against the braid.



1.8. Prepare the cable jacket by degreasing at least 30mm using the cleaning tissue provided. Thoroughly abrade this first 30mm of jacket with the abrasive paper provided.

1.9. Ensure the major keyway is in the correct position. Slide the Screened Adaptor Kit up to the connector and secure it to it using the appropriate mating receptacle and tighten to the correct torque- Table 3.

Table 3 – Adaptor Torque

Shell Size	Recommended Torque	
08, 09	4.0 Nm	35 lb.in
10, 11	4.5 Nm	40 lb.in
12, 13	5.0 Nm	45 lb.in
14, 15	5.5 Nm	50 lb.in
16, 17	6.0 Nm	60 lb.in
18, 19	6.5 Nm	70 lb.in
20, 21	8.0 Nm	80 lb.in
22, 23	10.0 Nm	90 lb.in
24, 25	11.5 Nm	100 lb.in

1.10. Shrink the rear of the heat shrink part onto the cable using a standard heat gun fitted with a suitable reflector at setting No 7. Remove the excess adhesive, which extrudes from the end of the moulded part, leaving a small fillet. Apply further heat for 30 seconds in the region of the exposed cable braid to ensure adequate flow of the conductive adhesive.

1.11. Allow cooling to room temperature before flexing.

UNSCREENED ADAPTOR KITS

For installing Unscreened Adaptors onto unscreened cables eliminate steps 6 and 7

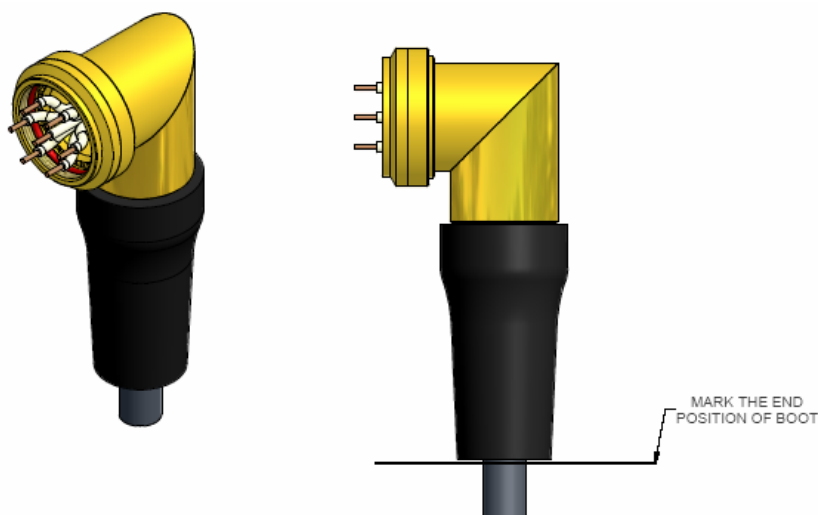
90° and 45° SCREENED ADAPTOR KITS

These are installed using the same guidelines as above. Note the heat shrink boots are shorter with extra volume for cables being provided by the metal body of the Adaptor.

For angled parts, where it is not possible to slide the jacketed cable through the adaptor, the cable must be fully prepared before the conductors are installed to the connector.

2.1. Cut back the cable jacket and braid to the recommended lengths in table 1.

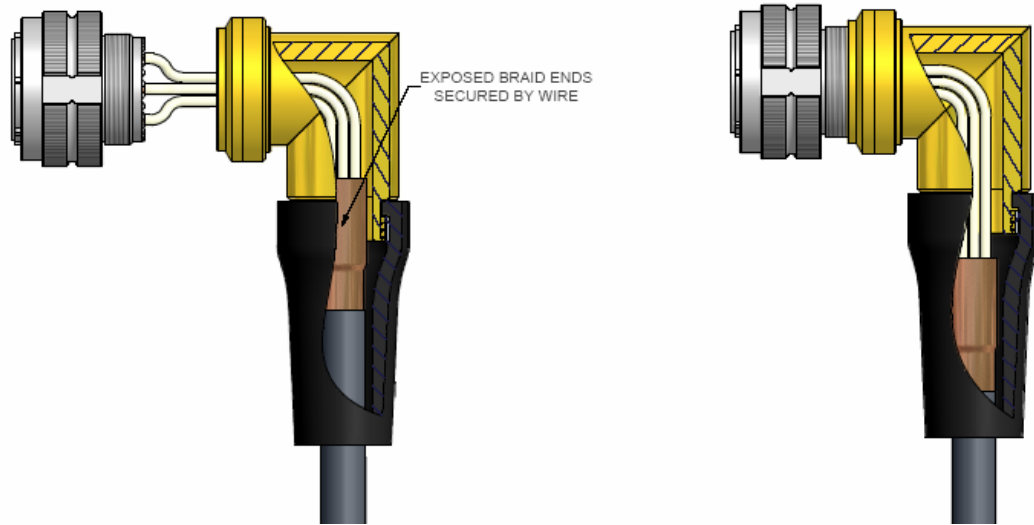
2.2. Push the cable through the angled adaptor until the wire ends poke out beyond the adaptor nut, so that they will reach satisfactorily when the connector is installed. Allow an extra 15mm if service loops are required.



2.3. Holding the adaptor in this position, mark the cable where the heatshrink boot ends.

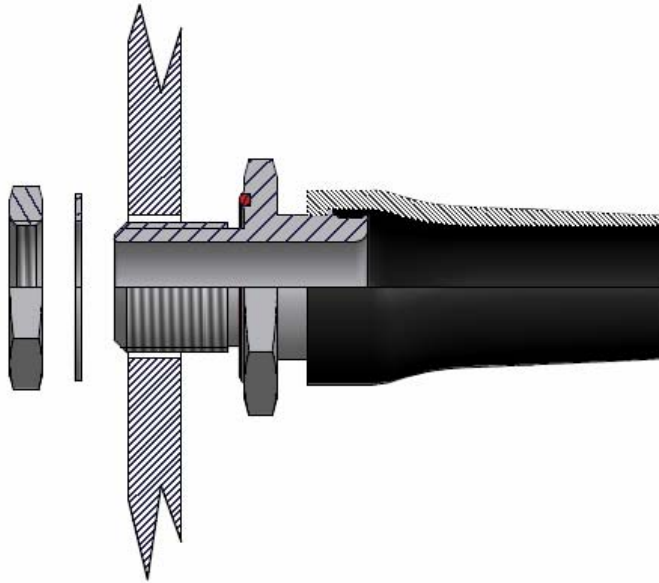
2.4. Remove the adaptor and prepare the cable as in steps 1.5, 1.6, 1.7 and 1.8.

2.5. It should now be possible to slide the cable further into the adaptor, up to the point where the secured braid end meets the angle of the adaptor. This will expose enough of the wires to allow termination to the connector.



2.6. Continue at step 1.9.

**POLAMCO 100P275 FEEDTROUGHS WITH HEATSHRINK SCREENED KITS
INSTALLATION GUIDE (TUBING AND BOOTS)**

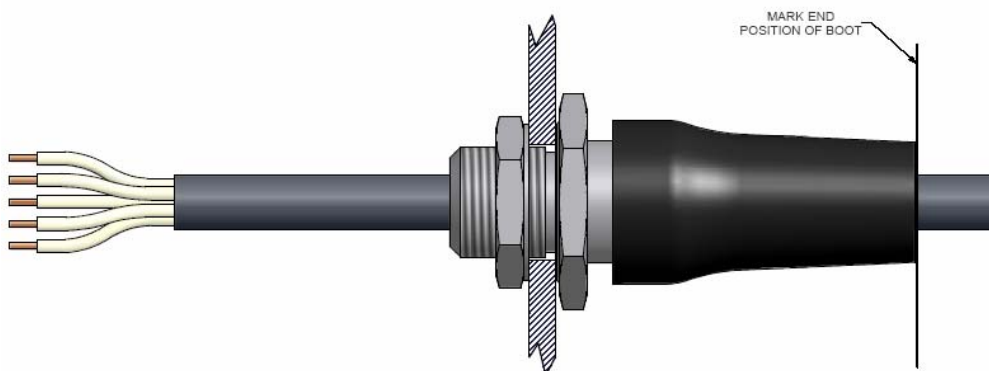


1.1. Install gland to bulkhead and tighten to the specified torque given in table 1:

Table 1 – Feedthrough Torque

Feedthrough Size	Recommended Torque	
12	20 Nm	14.6 lb.ft
16	25 Nm	18.2 lb.ft
20	30 Nm	21.9 lb.ft
24	35 Nm	25.5 lb.ft
30	40 Nm	29.2 lb.ft
36	45 Nm	32.8 lb.ft
48	50 Nm	36.5 lb.ft

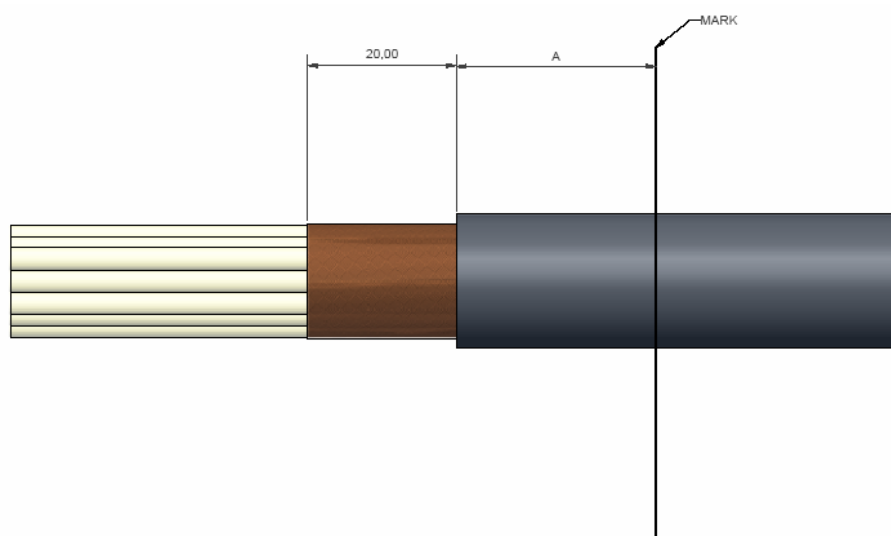
1.2. Feed the cable through the gland to the required position and mark the cable at the end of the heatshrink boot.



1.3. Remove the cable from the gland. Take dimension A from Table 2 and mark the cable this distance back towards the bulkhead from the initial mark made in step 1.2. Strip back the cable jacket to this mark to expose the braid.

Table 2. Boot Adhesion Length A

Feedthrough Size	A (mm)	A(mm) Unscreened
12	10	25
16	12	30
20	12	30
24	15	40
30	15	40
36	20	50
48	20	50



1.4. Cut back the cable braid leaving 20mm exposed from the end of the cable jacket.

1.5. Either fold back or bunch up the cable braid to expose the wires beneath it, and use self-amalgamating tape to pack out the exposed braid. Replace and secure the ends of the braid with tinned copper wire. It is important that the ends of the wire are flat against the braid.

1.8. Prepare the cable jacket by degreasing at least 30mm using the cleaning tissue provided. Thoroughly abrade this first 30mm of jacket with the abrasive paper provided.

1.9. Reposition the prepared cable so that the mark is at the end of the heatshrink boot, as in step 1.2, and orientate as required.

1.10. Holding in position, Shrink the rear of the heat shrink part onto the cable using a standard heat gun fitted with a suitable reflector at setting No 7. Remove the excess adhesive, which extrudes from the end of the moulded part, leaving a small fillet. Apply further heat for 30 seconds in the region of the exposed cable braid to ensure adequate flow of the conductive adhesive.

1.11. Allow cooling to room temperature before flexing.