

INSTALLATION GUIDE FOR STRAIGHT ABK CONNECTOR BACKFITTING

L-2083 (10-578967-001)
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There are 2 Methods of installing Amphenol® Straight ABK Backshells to connectors, as follows:

- METHOD 1: For installation with pre-installed adhesive on "J" end of molded part. (See front of this sheet)
- METHOD 2: For installation without pre-installed adhesive on "J" end of molded part. (See back of this sheet)

METHOD 1: FOR ALL SCREENED AND UNSCREENED ASSEMBLIES WITH PRE-INSTALLED ADHESIVE AT THE "J" END OF THE BOOT

Follow steps relevant to the type of ABK assembly, either screened or unscreened.

SCREENED	UNSCREENED
✓	✓

- Slide the ABK and heat-shrinkable packing sleeve onto the cable.
- Cut back the cable and braid sufficiently to terminate the conductors to the connector. The recommended dimensions depend on the size of the boot and are given in TABLE 1 (dimension L). Allow an extra 20mm for service loops if required.

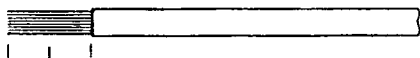
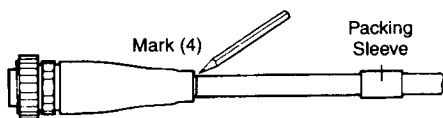


TABLE 1

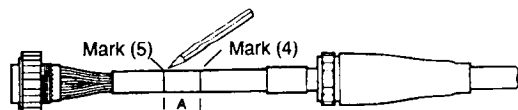
Boot Size	L (mm)	A (mm)
202S121	38	10
202S132	45	10
202S142	55	10
202S152	55	15
202S163	65	20
202S174	80	20

Boot Size	L (mm)	A (mm)
202K121	38	20
202K132	45	20
202K142	50	25
202K153	50	25
202K163	55	30
202K174	75	30

- Terminate the conductors to the connector in the appropriate way.
- Slide the ABK assembly along the cable and temporarily secure it to the connector. Mark the cable where the boot ends.



- Release the ABK and slide it back along the cable. Make a second mark (5), distance "A" toward the connector, from that made in step (4). This distance depends on the size of the boot and is given in TABLE 1 (dimension A). Cut back the cable jacket to this mark.

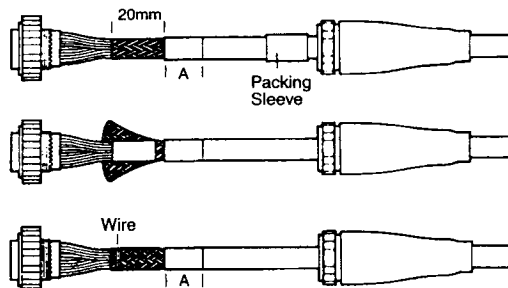


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SCREENED	UNSCREENED
✓	✓

- Cut back the cable braid leaving 20mm exposed from the end of the cable jacket.
- Position the heat-shrinkable packing sleeve under the 20mm of exposed braid and recover down. Secure the ends of the braid with the tinned copper wire, ensuring that the twisted ends are folded flat against the braid. The braid and the cable are now of similar diameter.



SCREENED	UNSCREENED
✓	✓

- Degrease area "A" and the cable braid with the cleaning tissue provided. Thoroughly abrade area "A" with the emery cloth and then remove any loose particles with a dry tissue.
- With the major keyway in the correct position, secure the ABK to the connector using the appropriate mating half and tighten to the specified torque value given in TABLE 2 below.
- Using a CV-1981* Heat Gun set at 7-8 with a PR-24* or PR-26* reflector, shrink the rear of the boot onto the cable. Remove the excess adhesive which extrudes from the end of the molded part, leaving a small fillet. The post heat times shown in TABLE 3 should be adhered to in order to give sufficient bonding.

TABLE 2

Connector Shell Size	(lb. Ins)
08, 09, 10, 10SL, 11	30
12, 13, 14, 15	50
16, 17, 18, 19	70
20, 21, 22, 23	90
24, 25, 28	110
32, 36	120

TABLE 3

Boot Size	Approx. Recovery Time (secs)	Post Heat Time (secs)
121	30	90
132	30	120
142	45	135
153	45	150
163	60	165
174	60	180

- Allow to cool at room temperature before flexing.

* CV-1981, PR-24 and PR-26 are trademarks of Raychem Corporation.

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METHOD 2: FOR ALL SCREENED AND UNSCREENED ASSEMBLIES WITHOUT PRE-INSTALLED ADHESIVE AT THE "J" END OF THE BOOT

Follow steps relevant to the type of ABK assembly, either screened or unscreened.

SCREENED	UNSCREENED
✓	✓

1. Degrease the unplated "J" end of the boot and abrade with 100 grade emery paper. Remove any loose particles with a dry tissue.
2. Slide the ABK and heat-shrinkable packing sleeve onto the cable.
3. Cut back the cable and braid sufficiently to terminate the conductors to the connector. The recommended length depends on the size of the boot and are given in TABLE 1 (dimension L). Allow an extra 20mm for service loops if required.

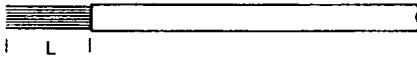
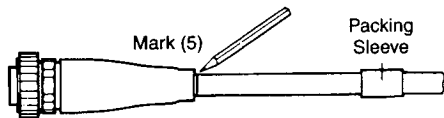


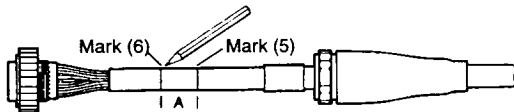
TABLE 1

Boot Size	L (mm)	A (mm)	Boot Size	L (mm)	A (mm)
202S121	38	10	202K121	38	20
202S132	45	10	202K132	45	20
202S142	58	10	202K142	50	25
202S152	55	15	202K153	50	25
202S163	65	20	202K163	55	30
202S174	80	20	202K174	75	30

4. Terminate the conductors to the connector in the appropriate way.
5. Slide the ABK assembly along the cable and temporarily secure it to the connector. Mark the cable where the boot ends.

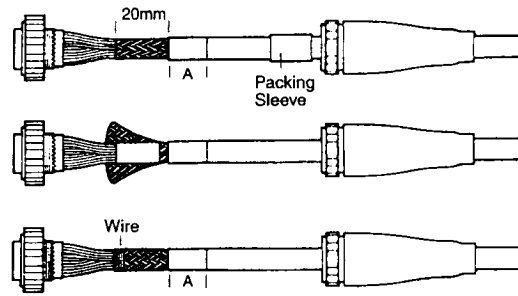


6. Release the ABK and slide it back along the cable. Make a second mark (6), distance "A" toward the connector, from that made in step (5). Distance "A" depends on the size of the boot and is given in TABLE 1 (dimension A). Cut back the cable jacket to this mark.



SCREENED	UNSCREENED
✓	✓

7. Cut back the cable braid leaving 20mm exposed from the end of the cable jacket.
8. Position the heat-shrinkable packing sleeve under the 20mm of exposed braid and recover down. Secure the ends of the braid with the tinned copper wire, ensuring that the twisted ends are folded flat against the braid. The braid and the cable are now of similar diameter.



SCREENED	UNSCREENED
✓	✓

9. Degrease area "A" and the cable braid with the cleaning tissue provided. Thoroughly abrade area "A" with the emery cloth and then remove any loose particles with a dry tissue.

SCREENED	UNSCREENED
✓	✓

10. Mix the S1125* adhesive, taking note of the pot life of 60 minutes at ambient temperature.

SCREENED	UNSCREENED
✓	✓

11. Mix the S1184* adhesive and work into the braid for a length of 20mm and thickness 2mm.

SCREENED	UNSCREENED
✓	✓

12. With the major keyway in the correct position, secure the ABK to the connector using the appropriate mating half and tighten to the specified torque value given in TABLE 2 below.
13. Apply S1125 adhesive to area "A" on the cable jacket and to the unplated area of the "J" end of the molded part.
14. Using a CV-1981* Heat Gun set at 7-8 with a PR-24* or PR-26* reflector, shrink the rear of the boot onto the cable. Remove the excess adhesive which extrudes from the end of the molded part, leaving a small fillet. The post heat times shown in TABLE 3 should be adhered to in order to give sufficient bonding.

TABLE 2

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163	60	165
174	60	180

Note: When using S1184 and S1125 adhesives the post heat times must be followed by a further 24 hours at RT. or 1 hour at 85°C. or 15 minutes at 150°C, before handling.

15. Allow to cool at room temperature before flexing.

* CV-1981, PR-24 and PR-26 are trademarks of Raychem Corporation.