

"A" Series MIL-Style Connector Kits Product Manual

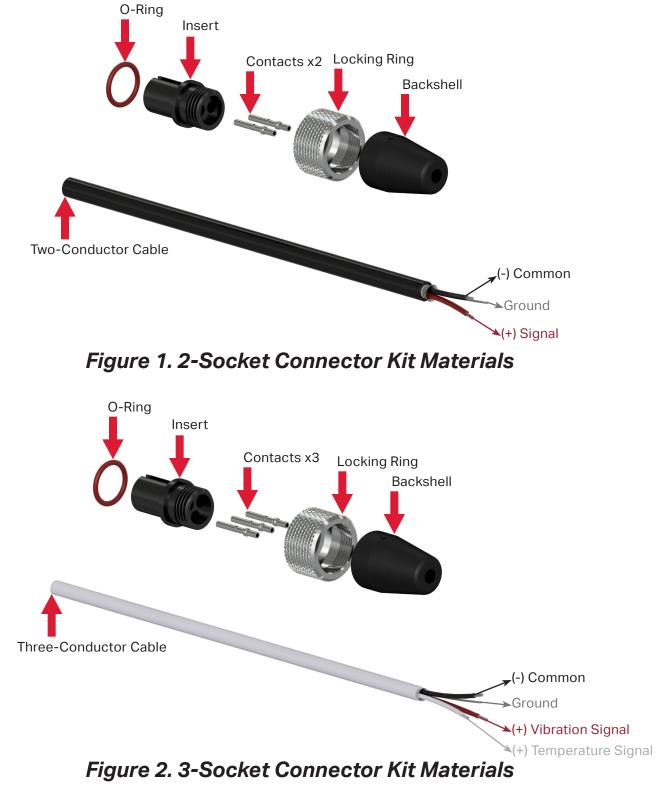
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INTRODUCTION

This document contains information on the operation, installation and maintenance of the A-style series of connector kits.





Part #	Connector Kit Parts	Material	Max Temp.	Connector Kit Parts #	Compatible Cables
	2A	Polycarbonate, 316L Stainless Steel Locking	250 °F (121 °C)	CK-A2A-175	CB102 CB110
		Ring		CK-A2A-190	CB111
A2A				CK-A2A-250	CB103 CB193 CB802 CB806
					CB810 CB811
				CK-A2A-310	CB206 CB602 CB606 CB611
		Polycarbonate, Polycarbonate Locking Ring	250 °F (121 °C)	CKP-A2A-175	
				CKP-A2A-190	CB110 CB111
				CKP-A2A-190 CKP-A2A-250	
	CKP-A2A			CKP-AZA-250	CB103 CB193 CB802
A2A					CB806
					CB810 CB811
				CKP-A2A-310	CB206
				GRF-AZA-510	CB200 CB602
					CB606
					CB611
		Nylon, 316L Stainless Steel	250 °F (121 °C)	CK-A2N	CB102 CB103
		Locking Ring			CB110
	2N				CB111
					CB193 CB206
A2N					CB200 CB602
					CB606
	CK-A2N				CB611
	UN-AZN				CB802 CB806
					CB800
					CB811
	2R	Polyphenylene Sulfide (PPS), 316L Stainless Steel Locking Ring	392 °F (200 °C)	CK-A2R-175	CB102
				CK-A2R-190	CB111
				CK-A2R-250	CB802
A2R					CB806 CB811
				CK-A2R-310	CB206
					CB602
					CB606
	Table 1 2-Conductor F				CB611

 Table 1. 2-Conductor Product Selection Guide



Part #	Connector Kit Parts	Material	Max Temp.	Connector Kit Parts #	Compatible Cables
		Polyphenylene Sulfide (PPS), PPS Locking Ring	392 °F (200 °C)	CK-A2S-175	CB102
				CK-A2S-190	CB111
A2S				CK-A2S-250	CB802 CB806 CB811
				CK-A2S-310	CB206 CB602 CB606 CB611

Table 1. 2-Conductor Product Selection Guide



Part #	Connector Kit Parts	Material	Max Temp.	Connector Kit Parts #	Compatible Cables
		Polycarbonate, 316L Stainless Steel Locking Ring	250 °F (121 °C)	CK-A3A-175	CB112
АЗА				CK-A3A-250	CB812
	СК-АЗА			CK-A3A-310	CB612
A3N		Nylon, 316L Stainless Steel Locking Ring	250 °F (121 °C)	CK-A3N	CB112 CB612 CB812
	CK-A3N				
	CK-A3R	Polyphenylene Sulfide (PPS), 316L Stainless	(200 °C)	CK-A3R-175	CB112
АЗR				CK-A3R-250	CB812
		Steel Locking Ring		CK-A3R-310	CB612
	as CK-A3S	Polyphenylene Sulfide (PPS), PPS Locking	: 392 °F (200 °C)	CK-A3S-175	CB112
A3S				CK-A3S-250	CB812
		Ring		CK-A3S-310	CB612

 Table 2. 3-Conductor Product Selection Guide



<image><image>

Recommended Tool: CB926-1A

Recommended Epoxy: MH109-3D



ASSEMBLY FOR CK-A2X SERIES

1. Strip outer jacket of wire .300 in.

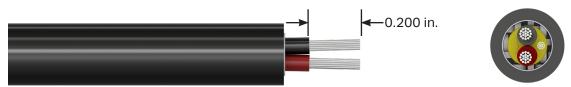




2. Cut off shield and drain wire (for twisted shielded wires only).



3. Strip the insulation of two conductor wires back .200 in.



4. Crimp conductor wires into contact sockets. CTC's CB926-1A crimp tool makes crimping fast and easy and can lead to significant time savings when installing a large volume of connector kits. Adjusting the green depth knob to the desired length allows the depth of the contacts to be set manually to ensure a crimp at the correct location every time. Suggested depth for the "A" Series is 0.52 in.

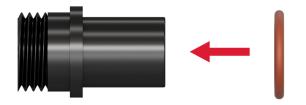


5. Slide backshell and knurled ring onto the cable.

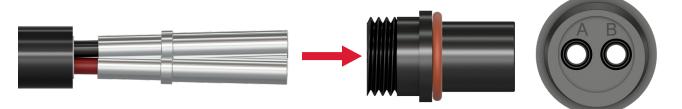




6. Attach O-ring to the front of the insert.



- 7. Using a fine-tipped punch, gently press each contact into the appropriate position on the insert.
 - a. Install accelerometer red (+) wire into the insert socket for Pin A.
 - b. Install accelerometer black (-) wire into insert socket for Pin B.



8. Slide the knurled ring over the threaded section of the insert until the metal step inside the ring catches on the plastic lip of the insert.



9. Thread the backshell onto the insert.





- 10. Place the assembled connector body horizontally with the two small epoxy injection holes level and facing upward.
- 11. Mix epoxy. Using a syringe, fill the backshell with epoxy through one of the small injection holes until epoxy begins to seep from the other.



- 12. Keep the connector in a horizontal position, allowing the epoxy to set and vent any trapped air, refilling as needed.
- 13. Allow the epoxy to cure for six hours at room temperature. Place a piece of masking tape over the two epoxy holes to prevent leakage and hang the connector vertically with the insert facing downward. This will ensure epoxy encapsulates the cable evenly, especially if the cable diameter is smaller than the backshell opening.





Assembly for Ck-A3x Series 1. Strip outer jacket of wire .300 in. \$\overline\$ \$\overlin

4. Crimp conductor wires into contact sockets. CTC's CB926-1A crimp tool makes crimping fast and easy and can lead to significant time savings when installing a large volume of connector kits. Adjusting the green depth knob to the desired length allows the depth of the contacts to be set manually to ensure a crimp at the correct location every time. Suggested depth for the "A" Series is 0.52 in.



5. Slide backshell and knurled ring onto the cable.

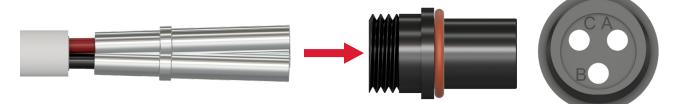




6. Attach O-ring to the front of the insert.



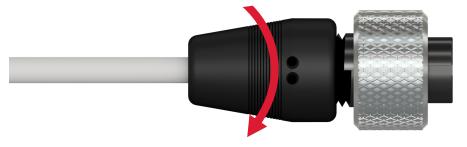
- 7. Using a fine-tipped punch, gently press each contact into the appropriate position on the insert.
 - a. Install accelerometer red (+) wire into the insert socket for Pin A.
 - b. Install accelerometer black (-) wire into insert socket for Pin B.
 - c. Install accelerometer white (+) wire into the insert socket for Pin C.



8. Slide the knurled ring over the threaded section of the insert until the metal step inside the ring catches on the plastic lip of the insert.



9. Thread the backshell onto the insert.





- 10. Place the assembled connector body horizontally with the two small epoxy injection holes level and facing upward.
- 11. Mix epoxy. Using a syringe, fill the backshell with epoxy through one of the small injection holes until epoxy begins to seep from the other.



- 12. Keep the connector in a horizontal position, allowing the epoxy to set and vent any trapped air, refilling as needed.
- 13. Allow the epoxy to cure for six hours at room temperature. Place a piece of masking tape over the two epoxy holes to prevent leakage and hang the connector vertically with the insert facing downward. This will ensure epoxy encapsulates the cable evenly, especially if the cable diameter is smaller than the backshell opening.





MAINTENANCE

Once the product has been installed, minimal maintenance will be required. Basic visual checks to ensure integrity should be made periodically.

General

There are no customer-replaceable parts. The product has been designed for trouble-free service under normal operating conditions.

WARRANTY & REFUND

Warranty

All CTC products are backed by our unconditional lifetime warranty. If any CTC product should ever fail, we will repair or replace it at no charge.

Refund

All stock products can be returned for a 25% restocking fee if returned in new condition within 90 days of shipment. Stock products qualify for free cancellation if your order is cancelled within 24 hours of purchase. Build to order products qualify for a 50% refund if returned in new condition within 90 days of shipment. Custom products are quoted and built specifically to the requirements of the customer, which may include completely custom product designs or private labeled versions of standard products for OEM customers. Custom products ordered are non-cancellable, non-returnable and non-refundable.



Мм-Ск-А2А/Rev A