

Information Sheet

Series	Compression Adaptors for Aluminum or Copper Conductors
ACM/ACO/ACO90	Rated 90 Degrees C - AL9CU, 600 Volts Maximum

WIRE CONNECTOR
ADAPTOR
941R



Catalog Number	Aluminum or Copper Wire Size	Pin Diameter	Recommended Tightening Torque (in-lbs.)		Compression Dies & No. of Crimps											Cover Furnished with Connector									
					ILSCO				T&B		BURNDY			RIDGID											
					IDT-12 Dieless	IDT-12-N Dieless	ILC-12 Family ILC-14 Family ILC-15 Family ILCB-12, ILCB-12-LIO (Battery)	Die Color	Crimp	13100A 13642	Die Color	Crimp	Y35, Y750 Family, Y39, Y45, Y46	Y644M Dieless	Die Color		Crimp	RE 12-M	Die Color	Crimp					
ACM-6	#6 AWG	0.22	45	110																					
ACM-4	#4 AWG	0.24	45	110																					
ACM-2	#2 AWG	0.24	50	150	1	1																			
ACM-1	#1 AWG	0.26	50	150																					
ACM-1/0	1/0 AWG	0.29	50	180																					
ACM-2/0	2/0 AWG	0.33	50	180																					
ACO-2/0																									
ACM-3/0	3/0 AWG	0.37	50	250	1	1	12 WHITE	1	66H WHITE	2	298 WHITE	2	*	1	12 WHITE	1									ACC-4/0
ACO-3/0																									
ACM-4/0	4/0 AWG	0.42	50	250																					
ACO-4/0																									
ACM-250	250 kcmil	0.47		325																					
ACO-250																									
ACM-300	300 kcmil	0.53		325																					
ACO-300					1	1	14 BROWN	1	87H BROWN	2	299 BROWN	2	*	1	14 BROWN	1									ACC-350
ACM-350	350 kcmil	0.57		325																					
ACO-350																									
ACO-90-350																									
ACM-400	400 kcmil	0.63		325																					
ACM-500	500 kcmil	0.68		375																					
ACO-500					1	1	16A PINK	2	99H PINK	3	300 PINK	3		1	16A PINK	2									ACC-500
ACO-90-500																									
ACM-600	600 kcmil	0.73		375																					
ACO-600					1	1	18 YELLOW	3	115H YELLOW	3	936 YELLOW	3		1	18 YELLOW	3									ACC-750
ACM-750	700 kcmil	0.81		500																					
ACO-750					N/A	N/A	18 YELLOW	3	115H YELLOW	3	N/A	N/A		N/A	18 YELLOW	3									ACC-750
ACM-750†	750 kcmil	0.81		500																					
ACO-750†					1	1	18 YELLOW	3	115H YELLOW	3	936 YELLOW	3		1	18 YELLOW	3									ACC-750

The UL listing for the ILSCO ACM/ACO Series adaptor is contingent upon its use in accordance with the instructions contained on this sheet.

The ACM/ACO Series adaptors are clearly marked with the catalog number, wire size, ILSCO die number and are color coded for proper die selection. They are also marked for the proper number and location of crimps.

Additional Information:

1. The insulating cover is intended to be assembled to the adaptor after the crimp application. Do NOT crimp over the insulating cover.

2. No insulating cover is provided for catalog number ACO-1000.

* Denotes Overlapped Crimps.

† ACM-750 and ACO-750 are additionally rated by UL for use with 900 kcmil compact aluminum wire when using Greenlee HK12ID or EK12ID dieless crimp tool with 1 crimp.

ACO-1000 Compression Adaptor for Aluminum or Copper Conductors Rated 90 Degrees C - AL9CU, 600 Volts Maximum									
Catalog Number	Aluminum or Copper Wire Range (kcmil)	Pin Diameter	Recommended Tightening Torque (in-lbs.)		Tools & No. of Crimps			Cover Furnished with Connector	
					ILSCO		BURNDY		
					IDT-12 Dieless	IDT-12-N Dieless	Y644M Dieless		
ACO-1000	1000 - 750	0.9		500	1	1	1	N/A	

Installation of Wire to ACM/ACO/ACO-90 Adaptor

- 1) Select proper ACM/ACO/ACO-90 adaptor for the wire size to be used. ACM/ACO/ACO-90 adaptors may be used on aluminum or copper wire.
- 2) Strip the wire insulation. Do not nick or ring the conductor. Remove any mylar coating on the wire.
- 3) Remove surface oxides from the conductor by cleaning it with a wire brush.
- 4) Insert conductor all the way into the barrel of the ACM/ACO/ACO-90 adaptor
- 5) Select the proper tool/die. See chart on opposite side. On multiple crimps, start first crimp close to the aluminum pin. Work toward the conductor on successive crimps. Remove flash and excess anti-oxidant before slipping provided cover into place.

Installation of ACM/ACO/ACO-90 Adaptor to Field Device

- 1) ACM/ACO/ACO-90 adaptors may only be used in a field device with set screw connectors suitable for use with aluminum conductors. Check the connector to be sure that the knurled pin of the ACM/ACO/ACO-90 adaptor can be sufficiently clamped with the set screw.
- 2) With the cover installed on the ACM/ACO/ACO-90 adaptor check to be sure there is no interference in any direction between the cover and surrounding material.
- 3) Be sure the ACM/ACO/ACO-90 adaptor does not reduce the wire bending space as required by applicable codes.
- 4) Bend conductor to fit before installing the ACM/ACO/ACO-90 adaptor.
- 5) Insert aluminum pin of the ACM/ACO/ACO-90 adaptor into the set screw connector of the field device and tighten set screw using the torque specified in chart on opposite side. Alternatively, use the equipment manufacturer's recommended tightening torque.