

## Information Sheet

### Series ALNS, ALND, ASNS, ASND, ALNB, ASNB, ALNN, ASNN, and ASN<sup>a</sup>

#### Compression Connectors for Aluminum or Copper Conductor

### Tooling Information

			ILSCO													
Lug/Splice Size	Wire Size	Color Code	MT-25 <sup>b</sup> Hand Dieless	94285	IDT-6 <sup>b</sup> , IDT-6H <sup>b</sup> , IDTB-6 <sup>b</sup> series (6-Ton Hydraulic Dieless)	IDT-12-N <sup>b</sup> (Dieless)	ILC-12-N, ILC-12H-N, ILCB-12 series (12-Ton Hydraulic)	TM-12U1000, TR-12U1000, TB-12U1000 series (12-Ton Hydraulic)	ILC-15H (15-Ton)	IVTB-6 <sup>b</sup> (Dieless)	TM-6DF1000 <sup>b</sup> , TR-6DF1000 <sup>b</sup> , TB-6DF1000 <sup>b</sup> series (Dieless)					
			Crimps	Die Code	Crimps	Crimps	Crimps	Die Code	Crimps	Die Code	Crimps	Die Code	Crimps	Crimps	Crimps	Crimps
8	8 AWG	Blue	1	M,K	2	1		ILD-374	1	ILD-374	1	ILD-374	1	1	1	1
6	6 AWG	Gray	1	K,K	2	1		ILD-346	1	ILD-346	1	ILD-346	1	1	1	1
4	4 AWG	Green	1	H,H	3	1		ILD-375	1	ILD-375	1	ILD-375	1	1	1	1
2	2 AWG	Pink	2	E,A	3	1		ILD-348	1	ILD-348	1	ILD-348	1	2	1 <sup>c</sup>	
1	1 AWG	Gold	2	E,A	3	1		ILD-471	1	ILD-471	1	ILD-471	1	2	1 <sup>c</sup>	
1/0	1/0 AWG	Tan	2	A,C	3	1		ILD-296	1	ILD-296	1	ILD-296	1	2	1 <sup>c</sup>	
2/0	2/0 AWG	Olive	2	A,B	3	2		ILD-297	1 <sup>c</sup>	ILD-297	1 <sup>c</sup>	ILD-297	1 <sup>c</sup>	2	2	2
3/0	3/0 AWG	Ruby	2	A,A	3	2		ILD-467	1 <sup>c</sup>	ILD-467	1 <sup>c</sup>	ILD-467	1 <sup>c</sup>	2	2	2
4/0	4/0 AWG	White	2			2		ILD-298	2	ILD-298	2	ILD-298	2	2	2	2
250	250 kcmil	Red				2		ILD-324	2	ILD-324	2	ILD-324	2	2	2	2
300	300 kcmil	Blue				2		ILD-470	2	ILD-470	2	ILD-470	2	2	2	2
350	350 kcmil	Brown				2		ILD-299	2	ILD-299	2	ILD-299	2	2	2 <sup>d</sup>	
400	400 kcmil	Green				2		ILD-472	4	ILD-472	4	ILD-472	4	2	2 <sup>e</sup>	
500	500 kcmil	Pink				2 <sup>e</sup>		ILD-300	4	ILD-300	4	ILD-300	4	2	2 <sup>e</sup>	
600	600 kcmil	Black				2 <sup>e</sup>		ILD-473	4	ILD-473	4	ILD-473	4		2 <sup>e</sup>	
700/750	700/750 kcmil	Yellow				2 <sup>e</sup>		ILD-936	3	ILD-936	3	ILD-936	3		2 <sup>e</sup>	
700/750 <sup>g</sup>	900 kcmil Compact Al	Yellow						ILD-936	3	ILD-936	3	ILD-936	3			
1000	1000 kcmil	Brown										ILD-P302 <sup>h</sup>	3			

**Additional Information:**

1) The ALNS, ALND, ASNS, ASND, ALNB, ASNB, ALNN, ASNN, and ASN connectors are marked with the die numbers and required number of crimps for ILSCO hydraulic tools.

When using other listed tools, consult chart for crimps required. Crimps should be evenly spaced on connector.

2) Consult manufacturers data for catalog numbers of dies for each tool.

<sup>a</sup> Number of crimps shown on chart must be applied to both sides of ASN splice connector's centerline.

<sup>b</sup> Dieless tools are not color coded and do not require dies.

<sup>c</sup> For ASN splicer connector, apply 2 crimps on both sides of splice connector's centerline.

<sup>d</sup> For ASN splicer connector, apply 3 crimps on both sides of splice connector's centerline.

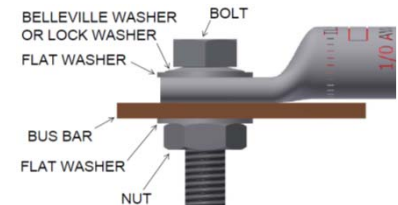
<sup>e</sup> For ASN splicer connector, apply 4 crimps on both sides of splice connector's centerline.

<sup>g</sup> 700/750 size lug/splice are additionally rated for use with 900 kcmil compact aluminum wire.

<sup>h</sup> The die index of ILD-P302 is 302.

### Connector Installation

- Select proper connector for the wire size to be used. Series can be used with concentric, compressed or compact aluminum or copper wire.
- Strip wire insulation using an approved method. Do not nick or ring the wire. Remove any major coating on the wire.
- Remove surface oxides from the wire with a wire brush.
- Insert wire all the way into the barrel of the connector.
- Select the proper die for approved tool. See chart above for approved tools and dies. Compress barrel from tang toward wire, or from inside of ASN connector towards wire.
- When terminating an aluminum connector to a steel or copper stud, use a belleville or compression type washer in combination with a flat washer. Tighten until the belleville washer is flat.



## Information Sheet

### Series ALNS, ALND, ASNS, ASND, ALNB, ASNB, ALNN, ASNN, and ASN<sup>a</sup>

#### Compression Connectors for Aluminum or Copper Conductor

### Tooling Information

			BURNDY									THOMAS AND BETTS				GREENLEE				ANDERSON		RIDGID				UTILCO																							
Lug/Splice Size	Wire Size	Color Code	Y500CT-HS, PAT600			PAT81KFT <sup>b</sup> , Y81KFT <sup>b</sup> , Y81KFTMBH <sup>b</sup> , PAT4PC834 <sup>b</sup> (6-Ton Hydraulic Dieless)			Y644M <sup>b</sup> , PAT644XT <sup>b</sup> (Dieless)			Y35, Y35BH, Y39, Y750, Y750BH, PAT750XT			Y46, Y46C, PAT46			TBM8-750M <sup>b</sup> , TBM8-750BSCR <sup>b</sup> , TBM8-750 <sup>b</sup> (Dieless)			TBM14M, TBM14MC, TBM14BSCR, BPLT14BSCR, BPLT14BSCR1, 13100A, TBM15I, BPLT15BSCR			EK06FT <sup>b</sup> , HK06FT <sup>b</sup> , RK06FT <sup>b</sup> (6-Ton Hydraulic Dieless)			EK1240, HK1240, RK1240 (12-Ton Hydraulic)			1990 <sup>b</sup> (Dieless)			RK1550		VC6-FT <sup>b</sup> , VC6-FTR <sup>b</sup> , VC6-FT-BP <sup>b</sup> , VC7-FT <sup>b</sup> , VC7-FTR <sup>b</sup> (Dieless)			RE 6 <sup>b</sup> (Dieless)		RE 12-M				UM-U42, UR-U42, BLL-U42 series (12-Ton Hydraulic)			UM-4PT <sup>b</sup> , UR-4PT <sup>b</sup> , BLL-4PT <sup>b</sup> series (Dieless)		
			Die Code	Crimps	Crimps	Crimps	Die Code	Crimps	Crimps	Die Code	Crimps	Crimps	Crimps	Die Code	Crimps	Crimps	Crimps	Die Code	Crimps	Crimps	Die Code	Crimps	Crimps	Crimps	Crimps	Die Code	Crimps	Crimps	Die Code	Crimps	Die Code	Crimps	Die Code	Crimps	Crimps														
8	8 AWG	Blue	X8CART	1	1		U8CABT	1	U8CABT	1	1	ILD-374	1	1	ILD-374	1	1	ILD-374	1	1	1	1	ILD-374	1	1	ILD-374	1	1	ILD-374	1	1																		
6	6 AWG	Gray	W161	1	1	1	U6CABT	1	U6CABT	1	1	ILD-346	1	1	ILD-346	1	1	ILD-346	1	1	1	1	ILD-346	1	1	ILD-346	1	1	ILD-346	1	1																		
4	4 AWG	Green	W162	2	1	1	U4CABT	1	U4CABT	1	1	ILD-375	1	1	ILD-375	1	1	ILD-375	1	1	1	1	ILD-375	1	1	ILD-375	1	1	ILD-375	1	1																		
2	2 AWG	Pink	W239	2	1 <sup>c</sup>	1	U2CABT	1	U2CABT	1	1	ILD-348	1	1	ILD-348	1	1	ILD-348	1	1	2	2	ILD-348	1	1	ILD-348	1	1	ILD-348	1	1 <sup>c</sup>																		
1	1 AWG	Gold	W163	2	1 <sup>c</sup>	1	U1CABT	1	U1CABT	1	1	ILD-471	1	1	ILD-471	1	1	ILD-471	1	1	2	2	ILD-471	1	1	ILD-471	1	1	ILD-471	1	1 <sup>c</sup>																		
1/0	1/0 AWG	Tan	W241	2	1 <sup>c</sup>	1	U25ART	1	U25ART	1	1	ILD-296	1	1	ILD-296	1	1	ILD-296	1	1	2	2	ILD-296	1	1	ILD-296	1	1	ILD-296	1	1 <sup>c</sup>																		
2/0	2/0 AWG	Olive	W245	2	2	1	U26ART	2	U26ART	2	1	ILD-297	1 <sup>c</sup>	2	ILD-297	1 <sup>c</sup>	1	ILD-297	1 <sup>c</sup>	2	2	2	2	ILD-297	1 <sup>c</sup>	1	ILD-297	1 <sup>c</sup>	1	ILD-297	1 <sup>c</sup>	2																	
3/0	3/0 AWG	Ruby	W166	2	2	1	U27ART	2	U27ART	2	1	ILD-467	1 <sup>c</sup>	2	ILD-467	1 <sup>c</sup>	1	ILD-467	1 <sup>c</sup>	2	2	2	2	ILD-467	1 <sup>c</sup>	1	ILD-467	1 <sup>c</sup>	1	ILD-467	1 <sup>c</sup>	2																	
4/0	4/0 AWG	White	W660	2	2	1	U28ART	2	U28ART	2	2	ILD-298	2	2	ILD-298	2	2	ILD-298	2	2	2	2	ILD-298	2	2	ILD-298	2	2	ILD-298	2	2																		
250	250 kcmil	Red			2	1	U29ART	2	U29ART	2	2	ILD-324	2	2	ILD-324	2	1	ILD-324	2	2	2	2	ILD-324	2	2	ILD-324	2	2	ILD-324	2	2																		
300	300 kcmil	Blue			2	1	U30ART	2	U30ART	2	2	ILD-470	2	2	ILD-470	2	1	ILD-470	2	2	2	2	ILD-470	2	2	ILD-470	2	2	ILD-470	2	2																		
350	350 kcmil	Brown	W31ART	3	2 <sup>d</sup>	1	U31ART	2	U31ART	2	2	ILD-299	2	2	ILD-299	2	1	ILD-299	2	2	2	2	ILD-299	2	2	ILD-299	2	2	ILD-299	2	2 <sup>d</sup>																		
400	400 kcmil	Green			2 <sup>e</sup>	1	U32ART	4	U32ART	4	2	ILD-472	4	2	ILD-472	4	1	ILD-472	4	2	2	2	ILD-472	4	2	ILD-472	4	2	ILD-472	4	2 <sup>e</sup>																		
500	500 kcmil	Pink			2 <sup>e</sup>	1	U34ART	4	U34ART	4	2	ILD-300	4	2 <sup>e</sup>	ILD-300	4	1	ILD-300	4	2	2	2	ILD-300	4	2 <sup>e</sup>	ILD-300	4	2 <sup>e</sup>	ILD-300	4	2 <sup>e</sup>																		
600	600 kcmil	Black			2 <sup>e</sup>	1	U36ART	4	U36ART	4	2	ILD-473	4	2 <sup>e</sup>	ILD-473	4	1	ILD-473	4	2	2	2	ILD-473	4	2 <sup>e</sup>	ILD-473	4	2 <sup>e</sup>	ILD-473	4	2 <sup>e</sup>																		
700/750	700/750 kcmil	Yellow			2 <sup>e</sup>	1	U39ART	4	U39ART	4	2	ILD-936	3	2 <sup>e</sup>	ILD-936	3	1	ILD-936	3	4			ILD-936	3	2 <sup>e</sup>	ILD-936	3	2 <sup>e</sup>	ILD-936	3	2 <sup>e</sup>																		
700/750 <sup>h</sup>	900 kcmil compact Al	Yellow										ILD-936	3		ILD-936	3		ILD-936	3				ILD-936	3		ILD-936	3		ILD-936	3																			
1000	1000 kcmil	Brown				1 <sup>g</sup>			P44ART	4								ILD-P302 <sup>k</sup>	3																														

#### Additional Information:

- The ALNS, ALND, ASNS, ASND, ALNB, ASNB, ALNN, ASNN, and ASN connectors are marked with the die numbers and required number of crimps for ILSCO hydraulic tools. When using other listed tools, consult chart for crimps required. Crimps should be evenly space on connector.
- Consult manufacturers data for catalog numbers of dies for each tool.

<sup>a</sup> Number of crimps shown on chart must be applied to both sides of ASN splice connector's centerline.

<sup>b</sup> Dieless tools are not color coded and do not require dies.

<sup>c</sup> For ASN splicer connector, apply 2 crimps on both sides of splice connector's centerline.

<sup>d</sup> For ASN splicer connector, apply 3 crimps on both sides of splice connector's centerline.

<sup>e</sup> For ASN splicer connector, apply 4 crimps on both sides of splice connector's centerline.

<sup>f</sup> ASN-1000 splicer connector is NOT UL listed or CSA certified with Y644M dieless tool.

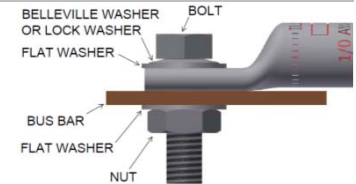
<sup>g</sup> 1000 size lug/splice are NOT UL listed or CSA certified with PAT644XT dieless tool.

<sup>h</sup> 700/750 size lug/splice are additionally rated for use with 900 kcmil compact aluminum wire.

<sup>k</sup> The die index of ILD-P302 is 302.

### Connector Installation

- Select proper connector for the wire size to be used. Series can be used with concentric, compressed or compact aluminum or copper wire.
- Strip wire insulation using an approved method. Do not nick or ring the wire. Remove any major coating on the wire.
- Remove surface oxides from the wire with a wire brush.
- Insert wire all the way into the barrel of the connector.
- Select the proper die for approved tool. See chart above for approved tools and dies. Compress barrel from tang toward wire, or from inside of ASN connector towards wire.
- When terminating an aluminum connector to a steel or copper stud, use a Belleville or compression type washer in combination with a flat washer. Tighten until the Belleville washer is flat.



## Information Sheet

### Series ALNS, ALND, ASNS, ASND, ALNB, ASNB, ALNN, ASNN, and ASN<sup>a</sup>

#### Compression Connectors for Aluminum or Copper Conductor



#### Range Taking (for ILSCO, BURNDY, GREENLEE, RIDGID and UTILCO Dieless Tools)

Lug/Splice Size	Standard Wire Size	Expanded Wire Range	ILSCO	ILSCO	ILSCO	ILSCO	ILSCO	BURNDY		GREENLEE	RIDGID	UTILCO
			MT-25 <sup>b</sup>	IVTB-6 <sup>b</sup>	IDT-6 <sup>b</sup> , IDT-6H <sup>b</sup> , IDTB-6 <sup>b</sup> series	IDT-12-N <sup>b</sup>	TM-6DF1000 <sup>b</sup> , TR-6DF1000 <sup>b</sup> , TB-6DF1000 <sup>b</sup> series	PAT4PC834 <sup>b</sup> , PAT81KFT <sup>b</sup> , Y81KFT <sup>b</sup> , Y81KFTMBH <sup>b</sup>	BURNDY Y644M <sup>b</sup>	EK06FT <sup>b</sup> , HK06FT <sup>b</sup> , RK06FT <sup>b</sup>	RE 6 <sup>b</sup>	UM-4PT <sup>b</sup> , UR-4PT <sup>b</sup> , BLL-4PT <sup>b</sup> series
			Crimps	Crimps	Crimps	Crimps	Crimps	Crimps	Crimps	Crimps	Crimps	Crimps
4	4 AWG	4 - 6 AWG	1	1	1	1	1	1		1	1	1
2	2 AWG	2 - 6 AWG	2	2	1	1	1 <sup>c</sup>	1 <sup>c</sup>		1	2	1 <sup>c</sup>
1	1 AWG	1 - 2 AWG	2	2	1	1	1 <sup>c</sup>	1 <sup>c</sup>		1	2	1 <sup>c</sup>
1/0	1/0 AWG	1/0 - 1 AWG	2	2	1	1	1 <sup>c</sup>	1 <sup>c</sup>		1	2	1 <sup>c</sup>
2/0	2/0 AWG	2/0 - 1 AWG	2	2	2	1	2	2		2	2	2
3/0	3/0 AWG	3/0 - 1 AWG	2	2	2	1	2	2		2	2	2
4/0	4/0 AWG	4/0 - 1 AWG	2	2	2	1	2	2		2	2	2
250	250 kcmil	250 kcmil - 1/0 AWG		2	2	1	2	2		2	2	2
300	300 kcmil	300 kcmil - 2/0 AWG		2	2	1	2	2		2	2	2
350	350 kcmil	350 kcmil - 3/0 AWG		2	2	1	2 <sup>d</sup>	2 <sup>d</sup>		2	2	2 <sup>d</sup>
400	400 kcmil	400 kcmil - 4/0 AWG		2	2	1	2 <sup>e</sup>	2 <sup>e</sup>		2	2	2 <sup>e</sup>
500	500 kcmil	500 kcmil - 4/0 AWG		2	2 <sup>e</sup>	1	2 <sup>e</sup>	2 <sup>e</sup>		2 <sup>e</sup>	2	2 <sup>e</sup>
600	600 kcmil	600 kcmil - 250 kcmil			2 <sup>e</sup>	1	2 <sup>e</sup>	2 <sup>e</sup>		2 <sup>e</sup>		2 <sup>e</sup>
700/750	700/750 kcmil	750 kcmil - 500 kcmil			2 <sup>e</sup>	1	2 <sup>e</sup>	2 <sup>e</sup>		2 <sup>e</sup>		2 <sup>e</sup>
1000	1000 kcmil	1000 kcmil - 750 kcmil							1 <sup>f</sup>			

<sup>a</sup> Number of crimps shown on chart must be applied to both sides of ASN splice connector's centerline.

<sup>b</sup> Dieless tools are not color coded and do not require dies.

<sup>c</sup> For ASN splicer connectors, apply 2 crimps on both sides of splice connector's centerline.

<sup>d</sup> For ASN splicer connectors, apply 3 crimps on both sides of splice connector's centerline.

<sup>e</sup> For ASN splicer connectors, apply 4 crimps on both sides of splice connector's centerline.

<sup>f</sup> ASN-1000 splicer connector is NOT UL listed or CSA certified with Y644M dieless tools.