TASKMASTER® TOOLS from ILSCO

Standards Guide
12 ton U Die Tools with ILSCO Connectors

LISTED

TB-12U1000-P, TR-12U1000, TM-12U1000







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Introduction

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Connections made with crimp tools (TB-12U1000-P, TR-12U1000, TM-12U1000) and a combination of dies and connector catalog numbers in these charts produce UL listed (per UL486A-B and *UL467) and CSA Certified (per CSA22.2 No 65 and

*CSA22.2 No 41) crimps

*SureCrimp® Copper connectors sizes 8-500kcmil

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Connections made with crimp tools (TB-12U1000-P, TR-12U1000, TM-12U1000) and a combination of dies and connector catalog numbers in these charts produce UL listed (per UL467) and CSA Certified (per CSA22.2 No 41) crimps

UL Listing, UL Classification, CSA Certification

UL Listing

- Resides with the connector
- Connectors are listed with tools (and dies when applicable)
- Only the manufacturer of the connector can get a UL listing
- UL486A-B- Power Standard
-UL467- Grounding & Bonding Equipment Standard

UL Classification

- Resides with the tool
- Any tool manufactorer can get a UL classification
- Requires the same level of testing as the UL listing
- UL1976 for power and/or bonding & grounding
- Just because a tool manufacturer has the UL1976, doesn't mean their tool has been tested and are approved for bonding & grounding applications

CSA Certification

- Resides with the connector
- Connectors are listed with tools (and dies when applicable)
- Only the manufactorurer of the connector can get a CSA certification
- CSA22.2 No 65 - Power Standard
- CSA22.2 NO 41- Grounding & Bonding Standard



Approved Copper Connectors

ILSCO Copper Compression Lugs & Sleeves - For Use With Class B/C Copper Wire, CU9Lug Series: CS, CL

Sleeve Series: CT, CT

Lug/Splice Size	Wire Size	Color Code	Die Catalog No. (# Crimps)
8 †	#8 AWG	Red	ILD-21 (1)
6 †	#6 AWG	Blue	ILD-24-1 (1)
4	#4 AWG	Gray	ILD-29 (1)
3 $	#3 AWG	White	ILD-29 (1)
2 †	#2 AWG	Brown	ILD-33 (1)
1	#1 AWG	Green	ILD-37 (1)
1/0	1/0 AWG	Pink	ILD-42 (1)
2/0	2/0 AWG	Black	ILD-45 (1)
3/0	3/0 AWG	Orange	ILD-50 (1)
4/0	4/0 AWG	Purple	ILD-54 (1)
250	250 kcmil	Yellow	ILD-62 (1)
300	300 kcmil	White	ILD-66 (2)
350	350 kcmil	Red	ILD-71 (2)
400	400 kcmil	Blue	ILD-76 (2)
500	500 kcmil	Brown	ILD-87 (2)
600*	600 kcmil	Green	ILD-94 (2)
650*	650 kcmil	Pink	ILD-99 (2)
700*	700 kcmil	Pink	ILD-99 (2)
750*	750 kcmil	Black	ILD-106 (2)
1000*	1000 kcmil	White	ILD-125 (2)

Note 1: For CT, CTL sleeves, number of crimps shown are per side
Note 2: For CL lugs sizes 8 - 750, double the amount of crimps indicated on chart
Note 3: For CL lugs size 1000 and all sizes of CTL sleeves, add one additional crimp to crimps indicated on chart

* Size NOT tested to UL467 or CSA 22.2 No. 41 standards
† Rated for stranded and solid copper wires

$ CS, CL series #3 lugs are also certified for use with #2 AWG solid copper wires



Approved Copper Connectors

ILSCO Copper Compression Lugs & Sleeves - For Use With Fine Strand Copper Wire (Classes G, H, I, K, M, DLO), CU9
Lug Series: CS, CL
Sleeve Series: CT, CTL

Lug/Splice Size	Fine Strand Wire Size	Color Code	Die Catalog No. (# Crimps)
8	#8 AWG	Red	ILD-21 (1)
6	#6 AWG	Blue	ILD-24-1 (1)
3	#4 AWG	White	ILD-29 (1)
1	#2 AWG	Green	ILD-37 (1)
1/0	#1 AWG	Pink	ILD-42 (1)
2/0	1/0 AWG	Black	ILD-45 (1)
3/0	2/0 AWG	Orange	ILD-50 (1)
4/0	3/0 AWG	Purple	ILD-54 (1)
250	4/0 AWG	Yellow	ILD-62 (1)
300	250 kcmil G,H	White	ILD-66 (2)
350	250 kcmil I, M, 262 DLO	Red	ILD-71 (2)
400	300 kcmil, 313 DLO	Blue	ILD-76 (2)
500	350 kcmil, 373 DLO	Brown	ILD-87 (2)
600*	400 kcmil, 444 DLO	Green	ILD-94 (2)
650*	500 kcmil, 535 DLO	Pink	ILD-99 (2)
700*	500 kcmil, 535 DLO	Pink	ILD-99 (2)
750*	600 kcmil, 646 DLO	Black	ILD-106 (2)
1000*	750 kcmil, 777 DLO	White	ILD-125 (2)

Note 1: For CT, CTL sleeves, number of crimps shown are per side
Note 2: For CL lugs sizes 8 - 750, double the amount of crimps indicated on chart
Note 3: For CL lugs size 1000 and all sizes of CTL sleeves, add one additional crimp to crimps indicated on chart

* Size NOT tested to UL467 or CSA 22.2 No. 41 standards



Approved Aluminum Connectors

ILSCO Aluminum Compression Lugs & Sleeves - For Use With Class B/C Copper Wire & Aluminum Wire, AL9CU
Lug Series: ALNS, ALND, ALNN
Sleeve Series: ASN

Lug/Splice Size	Wire Size	Color Code	Die Catalog No. (# Crimps)
8	#8 AWG	Blue	ILD-374 (1)
6	#6 AWG	Gray	ILD-346 (1)
4	#4 AWG	Green	ILD-375 (1)
2	#2 AWG	Pink	ILD-348 (1)
1	#1 AWG	Gold	ILD-471 (1)
1/0	1/0 AWG	Tan	ILD-296 (1)
2/0**	2/0 AWG	Olive	ILD-297 (1)
3/0**	3/0 AWG	Ruby	ILD-467 (1)
4/0	4/0 AWG	White	ILD-298 (2)
250	250 kcmil	Red	ILD-324 (2)
300	300 kcmil	Blue	ILD-470 (2)
350	350 kcmil	Brown	ILD-299 (2)
400	400 kcmil	Green	ILD-472 (4)
500	500 kcmil	Pink	ILD-300 (4)
600	600 kcmil	Black	ILD-473 (4)
700/750	700/750 kcmil	Yellow	ILD-936 (3)

Note: For ASN sleeves, number of crimps shown are per side

** These ASN sleeves require 2 crimps per side



Approved Aluminum Connectors

ILSCO IACL, 2IACL Series Aluminum Compression Lugs - For Use With Class B/C Copper Wire & Aluminum Wire, AL9CU

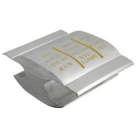
Catalog Number	Wire Size	Color Code	Die Catalog No. (# Crimps)
IACL-4	#4 AWG	Orange	ILD-9 (3)
IACL-2	#2 AWG	Orange	ILD-9 (3)
IACL-1/0	1/0 AWG	Orange	ILD-9 (3)
2IACL-1/0	1/0 AWG	Orange	ILD-9 (3)
IACL-2/0	2/0 AWG	White	ILD-12 (1)
2IACL-2/0	2/0 AWG	White	ILD-12 (1)
IACL-3/0	3/0 AWG	White	ILD-12 (1)
2IACL-3/0	3/0 AWG	White	ILD-12 (1)
IACL-4/0	4/0 AWG	White	ILD-12 (1)
2IACL-4/0	4/0 AWG	White	ILD-12 (1)
IACL-250	250 kcmil	White	ILD-12 (1)
2IACL-250	250 kcmil	White	ILD-12 (1)
IACL-300	300 kcmil	Blue	ILD-14 (2)
2IACL-300	300 kcmil	Blue	ILD-14 (2)
IACL-350	350 kcmil	Blue	ILD-14 (2)
2IACL-350	350 kcmil	Blue	ILD-14 (2)
IACL-500	500 kcmil	Blue	ILD-14 (2)
2IACL-500	500 kcmil	Blue	ILD-14 (2)
IACL-600	600 kcmil	Yellow	ILD-18 (3)
2IACL-600	600 kcmil	Yellow	ILD-18 (3)
2IACL-750	750 kcmil	Yellow	ILD-18 (3)
2IACL-1000	1000 kcmil	Yellow	ILD-18 (3)



Approved Pin Adaptor Systems

ILSCO ACM, ACO, ACO-90 Series Compression Adapters - For Use With Class B/C Copper Wire and Aluminum Wire, AL9CU

Catalog Number	Wire Size	Color Code	Die Catalog No. (# Crimps)
ACM-6	#6 AWG	Tan	ILD-8 (1)
ACM-4	#4 AWG	Tan	ILD-8 (1)
ACM-2	#2 AWG	Tan	ILD-8 (1)
ACM-1	#1 AWG	Tan	ILD-8 (1)
ACM-1/0	1/0 AWG	White	ILD-12 (1)
ACM-2/0	2/0 AWG	White	ILD-12 (1)
AC0-2/0	2/0 AWG	White	ILD-12 (1)
ACM-3/0	3/0 AWG	White	ILD-12 (1)
ACO-3/0	3/0 AWG	White	ILD-12 (1)
ACM-4/0	4/0 AWG	White	ILD-12 (1)
ACO-4/0	4/0 AWG	White	ILD-12 (1)
ACM-250	250 kcmil	Brown	ILD-14 (1)
ACO-250	250 kcmil	Brown	ILD-14 (1)
ACM-300	300 kcmil	Brown	ILD-14 (1)
AC0-300	300 kcmil	Brown	ILD-14 (1)
ACM-350	350 kcmil	Brown	ILD-14 (1)
ACO-350	350 kcmil	Brown	ILD-14 (1)
ACO-90-350	350 kcmil	Brown	ILD-14 (1)
ACM-400	400 kcmil	Pink	ILD-16A (2)
ACM-500	500 kcmil	Pink	ILD-16A (2)
ACO-500	500 kcmil	Pink	ILD-16A (2)
ACO-90-500	500 kcmil	Pink	ILD-16A (2)
ACM-600	600 kcmil	Yellow	ILD-18 (3)
ACO-600	600 kcmil	Yellow	ILD-18 (3)
ACM-750	700/750 kcmil	Yellow	ILD-18 (3)
ACO-750	700/750 kcmil	Yellow	ILD-18 (3)





Approved Pin Adaptor Systems

ILSCO CPM, CPML Series Compression Adapters - For Use With Class B/C Copper Wire & Aluminum Wire, AL9CU

Catalog Number	Wire Size	Color Code	Die Catalog No. (# Crimps)
CPM-6	#6 AWG	Orange	ILD-9 (3)
CPM-4	#4 AWG	Orange	ILD-9 (3)
CPM-2	#2 AWG	Orange	ILD-9 (3)
CPM-1	#1 AWG	Orange	ILD-9 (3)
CPM-1/0	1/0 AWG	White	ILD-12 (1)
CPM-2/0	2/0 AWG	White	ILD-12 (1)
CPM-3/0	3/0 AWG	White	ILD-12 (1)
CPM-4/0	4/0 AWG	White	ILD-12 (1)
CPM-250	250 kcmil	Brown	ILD-14 (2)
CPM-300	300 kcmil	Brown	ILD-14 (2)
CPM-350	350 kcmil	Brown	ILD-14 (2)
CPM-400	400 kcmil	Pink	ILD-16A (2)
CPM-500	500 kcmil	Pink	ILD-16A (2)
CPML-500	500 kcmil	Pink	ILD-16A (2)
CPM-600	600 kcmil	Yellow	ILD-18 (3)
CPML-600	600 kcmil	Yellow	ILD-18 (3)
CPM-750	750 kcmil	Yellow	ILD-18 (3)
CPML-750	750 kcmil	Yellow	ILD-18 (3)

ILSCO AH Series Tap Connectors - For Use With Class B/C Copper Wire & Aluminum Wire, AL9CU For Combination Of CU/CU, AL/AL, CU/AL

Catalog Number	Wire Range (Main)	Wire Range (Tap)	Die Index* (# Crimps)
AH-1	1/0 Str - 6 Str	1 Str - 6 Str	O (2)
AH-2	4/0 Str - 1 Str	1 Str - 6 Str	D3 (2)
AH-3	4/0 Str - 3/0 Str	4/0 Str - 3/0 Str	D3 (3)
AH-4	4/0 Str - 1 Str	2/0 Str - 1 Str	D3 (3)
AH-5	400 kcmil - 4/0 Str	400 kcmil - 4/0 Str	N (3)
AH-6	500 kcmil - 4/0 Str	2/0 Str - 6 Str	N (2)

* Either ILSCO or Burndy dies can be used



Approved PermaGround® Connector Systems

ILSCO GGA Series - For Use With Copper Wire, Copper Ground Rod, & Rebar

	Die Index* (# Crimps)			
Catalog Number	Side A	Side B	Side A	Side B
GGA-1	O (1)	O (1)	6 Sol - 2 Str	6 Sol - 2 Str
GGA-2	997 (1)	O (1)	1 Str - 250 kcmil 1/2“ - 5/8“ Cu Gnd Rod #3 - #4 Rebar	6 Sol - 2 Str
GGA-3	997 (1)	997 (1)	2 Str - 250 kcmil 1/2“ - 5/8“ Cu Gnd Rod #3 - #4 Rebar	2 Str - 250 kcmil
GGA-4	998 (1)	O (1)	250 kcmil - 500 kcmil 5/8“ - 3/4“ Cu Gnd Rod #5 - #6 Rebar	6 Sol - 2 Str
GGA-5	998 (1)	997 (1)	250 kcmil - 500 kcmil 5/8“ - 3/4“ Cu Gnd Rod #5 - #6 Rebar	2 Str - 250 kcmil
GGA-6	1011 (3)	1011 (3)	250 kcmil - 500 kcmil 5/8“ - 3/4“ Cu Gnd Rod #5 - #6 Rebar	250 kcmil - 500 kcmil

* Either ILSCO or Burndy dies can be used



Approved PermaGround® Connector Systems

ILSCO GGB Series - For Use With Copper Wire, Copper Ground Rod, Galvanized Steel Ground Rod, & Rebar

	Die Index* (# Crimps)			
Catalog Number	Side A	Side B	Side A	Side B
GGB-1	998 (1)	997 (1)	1/2“ Cu Gnd Rod #3 Rebar	2 - 250 kcmil
GGB-2	998 (1)	997 (1)	5/8“ Cu Gnd Rod #4 Rebar	2 - 250 kcmil
GGB-3	998 (1)	997 (1)	3/4“ Cu Gnd Rod #5 Rebar	2 - 250 kcmil
GGB-3TN	998 (1)	997 (1)	3/4“ Gal. Steel Gnd Rod	2 - 250 kcmil
GGB-4	998 (1)	997 (1)	1“ Cu Gnd Rod #6 - #7 Rebar	2 - 250 kcmil
GGB-5	998 (1)	998 (1)	1/2“ Cu Gnd Rod #3 Rebar	250 kcmil - 500 kcmil
GGB-6	998 (1)	998 (1)	5/8“ Cu Gnd Rod #4 Rebar	250 kcmil - 500 kcmil
GGB-6TN	998 (1)	998 (1)	5/8“ Gal. Steel Gnd Rod	250 kcmil - 500 kcmil
GGB-7	998 (1)	998 (1)	3/4“ Cu Gnd Rod #5 Rebar	250 kcmil - 500 kcmil
GGB-8	998 (1)	998 (1)	1“ Cu Gnd Rod #6 - #7 Rebar	250 kcmil - 500 kcmil

* Either ILSCO or Burndy dies can be used

Approved PermaGround® Connector Systems

ILSCO GGC Series - For Use With Copper Wire, Copper Ground Rod, & Rebar

Catalog Number	Die Index* (# Crimps)	Run (Open Hook End)	Tap (Closed Hole End)
GGC-1	O (1)	6 Sol - 2 Str	6 Sol - 2 Str
GGC-2	997 (1)	1/0 - 250 kcmil 1/2" - 5/8" Cu Gnd Rod #3 - #4 Rebar	4 Sol - 2 Str
GGC-3	997 (1)	1/0 - 250 kcmil 1/2" - 5/8" Cu Gnd Rod #3 - #4 Rebar	1/0 - 2/0 Str
GGC-4	997 (1)	1/0 - 250 kcmil 1/2" - 5/8" Cu Gnd Rod #3 - #4 Rebar	3/0 - 250 kcmil
GGC-5	998 (1)	250 kcmil - 500 kcmil 5/8" - 3/4" Cu Gnd Rod #5 - #6 Rebar	4 Sol - 2 Str
GGC-6	998 (1)	250 kcmil - 500 kcmil 5/8" - 3/4" Cu Gnd Rod #5 - #6 Rebar	1/0 - 2/0 Str
GGC-7	998 (1)	250 kcmil - 500 kcmil 5/8" - 3/4" Cu Gnd Rod #5 - #6 Rebar	3/0 - 250 kcmil
GGC-8	1011 (3)	250 kcmil - 500 kcmil 5/8" - 3/4" Cu Gnd Rod #5 - #6 Rebar	350 kcmil - 500 kcmil
GGC-9	997 (1)	1/0 - 250 kcmil 1/2" - 5/8" Cu Gnd Rod #3 - #4 Rebar	6 Sol - 6 Str

* Either ILSCO or Burndy dies can be used



Approved PermaGround® Connector Systems

ILSCO ULT Series - For Use With Copper Wire

Catalog Number	Die Index* (# Crimps)	Main	Tap
ULT-1	238 (1)	10 Str - 12 Sol	10 Str - 12 Sol
ULT-2	162 (1)	8 Str - 8 Sol	8 Str - 10 Sol
ULT-3	BG (1) OR 5/8 (1)	4 Str - 6 Sol	8 Str - 8 Sol
ULT-4	BG (1) OR 5/8 (1)	4 Str - 6 Sol	6 Str - 6 Sol
ULT-5	BG (1) OR 5/8 (1)	4 Str - 6 Sol	4 Str - 4 Sol
ULT-6	C (1)	2 Str - 2 Sol	4 Str - 8 Sol
ULT-7	C (1)	2 Str - 2 Sol	2 Str - 2 Sol
ULT-8	O (1)	2/0 Str - 1/0 Sol	2 Str - 8 Sol
ULT-9	O (1)	2/0 Str - 1/0 Sol	2/0 Str - 1/0 Sol
ULT-10	D3 (1)	4/0 Str - 3/0 Sol	2 Str - 6 Sol
ULT-11	D3 (1)	4/0 Str - 3/0 Sol	2/0 Str - 1/0 Sol
ULT-12	D3 (1)	4/0 Str - 3/0 Sol	4/0 Str - 3/0 Sol

Note: ULT Series is certified as wire connectors (UL486A & UL486B) and grounding and bonding equipments (UL467)

* Either ILSCO or Burndy dies can be used



Approved PermaGround® Connector Systems

ILSCO RLT Series - For Use With Copper Wire, Copper Ground Rod, & Galvanized Steel Ground Rod

Catalog Number	Die Index* (# Crimps)	Rod Size	Copper Wire Range
RLT-2	998 (1)	1/2“ Cu Gnd Rod	2 - 2/0 Str
RLT-3	998 (1)	5/8“ Cu Gnd Rod	2 - 2/0 Str
RLT-4	998 (1)	3/4“ Cu Gnd Rod	2 - 2/0 Str
RLT-5	998 (1)	1/2“ Cu Gnd Rod	4/0 - 250 kcmil
RLT-6	998 (1)	5/8“ Cu Gnd Rod	4/0 - 250 kcmil
RLT-7	998 (1)	3/4“ Cu Gnd Rod	4/0 - 250 kcmil
RLT-8	998 (1)	5/8“ Cu Gnd Rod	300 kcmil - 500 kcmil
RLT-9	998 (1)	3/4“ Cu Gnd Rod	300 kcmil - 500 kcmil
RLT-10	998 (1)	1“ Cu Gnd Rod	2 - 2/0
RLT-11	998 (1)	1“ Cu Gnd Rod	4/0 - 250 kcmil
RLT-12	998 (1)	1“ Cu Gnd Rod	300 kcmil - 500 kcmil
RLT-13	998 (1)	5/8“ Cu Gnd Rod	2 Sol
RLT-4TN	998 (1)	3/4“ Gal. Steel Gnd Rod	2 - 2/0
RLT-7TN	998 (1)	3/4“ Gal. Steel Gnd Rod	4/0 - 250 kcmil
RLT-8TN	998 (1)	5/8“ Gal. Steel Gnd Rod	300 kcmil - 500 kcmil
RLT-9TN	998 (1)	3/4“ Gal. Steel Gnd Rod	300 kcmil - 500 kcmil

* Either ILSCO or Burndy dies can be used



Approved PermaGround® Connector Systems

ILSCO ELT Series - For Use With Copper Wire, Copper Ground Rod, & Rebar

Catalog Number	Die Index* (# Crimps)	Main	Tap
ELT-1	C (1)	2 Str - 6 Sol	2 Str - 6 Sol
ELT-2	O (1)	2/0 Str - 1 Str #3 Rebar	2/0 Str - 1 Str #3 Rebar
ELT-3	997 (1)	250 kcmil - 3/0 Str #4 Rebar 1/2“ Cu Gnd Rod	250 kcmil - 3/0 Str #4 Rebar
ELT-4	O (1)	2/0 Str - 1 Str #3 Rebar	2 Str - 6 Str
ELT-5	997 (1)	250 kcmil - 3/0 Str #4 Rebar 1/2“ Cu Gnd Rod	2/0 Str - 6 Sol #3 Rebar
ELT-6	1011 (2)	500 kcmil - 300 kcmil #6 Rebar 3/4“ Cu Gnd Rod	250 kcmil - 3/0 Str #3 - #4 Rebar
ELT-7	1011 (2)	500 kcmil - 300 kcmil #5 Rebar 5/8“ Cu Gnd Rod	2/0 Str - 6 Sol #3 - #4 Rebar
ELT-8	1011 (2)	500 kcmil - 300 kcmil #5 Rebar 5/8“ Cu Gnd Rod	500 kcmil - 300 kcmil #5 - #6 Rebar

* Either ILSCO or Burndy dies can be used

TASKMASTER® TOOLS from ILSCO

TASKMASTER TOOLS
4730 Madison Rd.
Cincinnati, OH 45227

Phone: 800-776-9775
513-533-6200

www.ilsco.com

Service:

ILSCO CANADA
615 B Orwell St.
Mississauga, ON
L5A 2W4, Canada

Phone: 800-665-2607
905-274-2341

www.ilsco.ca