

Compression Connections

Copper Code Standard Barrel Tooling Table
Hydraulic Requiring Dies and Dieless

Catalog Number Type	Wire Size	Color Code and Die Index Number	Hydraulic Tools - Dies Required (# Crimps)					Hydraulic Tools - Dieless	
	Class B, C Conductor (CU Only)		MD6, 600, 500 Series	750, 35 Series	45 Series Use PT6515 with U Dies	46 Series Use PUADP1 with U Dies	60 Series	81K 4PC Series	644 444 Series
YA-10	#14 - #10 Str #12 - #10 Sol	—	—	—	—	—	—	—	—
YA-8C-L	#8 AWG	RED 49	X8CRT (1) W8CRT (1) W8CVT (1)	U8CRT (1)	U8CRT (1)	U8CRT (1)	—	1 CRIMP	—
YA-6C-L	#6 AWG Str Sol	BLUE 7	X5CRT (1) W5CRT (1) W5CVT (1)	U5CRT (1)	U5CRT (1)	U5CRT (1)	—	1 CRIMP	—
YA-5C-L	#5 AWG	BLUE 7	X5CRT (1) W5CRT (1) W5CVT (1)	U5CRT (1)	U5CRT (1)	U5CRT (1)	—	1 CRIMP	—
YA-4C-L	#4 AWG	GRAY 8	X4CRT (1) W4CRT (1) W4CVT (1)	U4CRT (1)	U4CRT (1)	U4CRT (1)	—	1 CRIMP	1 CRIMP
YA-3C-L	#3 Str #2 Sol	WHITE 9	W3CRT (1)	U3CRT (1)	U3CRT (1)	U3CRT (1)	—	1 CRIMP	1 CRIMP
YA-2C-L	#2 AWG	BROWN 10	X2CRT (1) W2CRT (1) W2CVT (1)	U2CRT (1)	U2CRT (1)	U2CRT (1)	—	1 CRIMP	1 CRIMP
YA-1C-L	#1 AWG	GREEN 11	X1CRT1 (1) W1CRT1 (1) W1CVT (1)	U1CRT1 (1)	U1CRT1 (1)	U1CRT1 (1)	—	1 CRIMP	1 CRIMP
YA-25-L	1/0 AWG	PINK 12	X25RT (2) W25RT (2) W25VT (2)	U25RT (1)	U25RT (1)	U25RT (1)	—	1 CRIMP	1 CRIMP
YA-26-L	2/0 AWG	BLACK 13	X26RT (2) W26RT (2) W26VT (2)	U26RT (1)	U26RT (1)	U26RT (1)	—	1 CRIMP	1 CRIMP
YA-27-L	3/0 AWG	ORANGE 14	X27RT (3) W27RT (2) W27VT (2)	U27RT (1)	U27RT (1)	U27RT (1)	—	2 OVERLAPPING CRIMPS	1 CRIMP
YA-28-L	4/0 AWG	PURPLE 15	X28RT (3) W28RT (2) W28VT (2)	U28RT (1)	U28RT (1)	U28RT (1)	L28RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP
YA-29-L	250 kcmil	YELLOW 16	X29RT (4) W29RT (2) W29VT (2)	U29RT (1)	U29RT (1)	U29RT (1)	L29RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP
YA-30-L	300 kcmil	WHITE 17	W30RT (2) W30VT (2)	U30RT (2)	U30RT (2)	U30RT (2)	L30RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP
YA-31-L	350 kcmil	RED 18	W31RT (2) W31VT (2)	U31RT (2)	U31RT (2)	U31RT (2)	L31RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP
YA-32-L	400 kcmil	BLUE 19	W32RT (2) W32VT (2)	U32RT (2)	U32RT (2)	U32RT (2)	L32RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP

Catalog Number Type	Wire Size	Color Code and Die Index Number	Hydraulic Tools - Dies Required (# Crimps)					Hydraulic Tools - Dieless	
	Class B, C Conductor (CU Only)		MD6, 600, 500 Series	750, 35 Series	45 Series Use PT6515 with U Dies	46 Series Use PUADP1 with U Dies	60 Series	81K 4PC Series	644 444 Series
YA-33-L	450 kcmil	GRAY 326	W33RT (2) W33VT (2)	U33RT (2)	U33RT (2)	U33RT (2)	L33RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP
YA-34-L	500 kcmil	BROWN 20	W34RT (2) W34VT (2)	U34RT (2)	U34RT (2)	U34RT (2)	L34RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP
YA-35-L	550 kcmil	YELLOW 21	—	U35RT (2)	U35RT (2)	U35RT (2)	L35RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP
YA-36-L	600 kcmil	GREEN 22	—	U36RT (2)	U36RT (2)	U36RT (2)	L36RT (1)	2 OVERLAPPING CRIMPS	1 CRIMP
YA-37-L	650 kcmil	ORANGE 23	—	U37RT (2)	U37RT (2)	U37RT (2)	L37RT (1)	3 OVERLAPPING CRIMPS	1 CRIMP
YA-38-L	700 kcmil	PINK 400	—	U38RT (2)	U38RT (2)	U38RT (2)	L38RT (1)	3 OVERLAPPING CRIMPS	1 CRIMP
YA-39-L	750 kcmil	BLACK 24	—	U39RT (2)	U39RT (2)	U39RT (2) P39RT (2)	L39RT (1)	3 OVERLAPPING CRIMPS	1 CRIMP
YA-40-L	800 kcmil	ORANGE 25	—	—	S40RT (3)	P40RT (3)	L40RT (1)	3 OVERLAPPING CRIMPS	1 CRIMP
YA-41-L	850 kcmil	GOLD 26	—	—	—	P41D with P44PR (1)	—	3 OVERLAPPING CRIMPS	1 CRIMP
YA-44-L	1000 kcmil	WHITE 27	—	—	S44RT (3)	P44RT (3)	L44RT (2)	3 OVERLAPPING CRIMPS	1 CRIMP
YA-45-L	1250 kcmil	YELLOW 29	—	—	S45RT (3)	P45RT (3)	L45RT (2)	—	—
YA-453-L	1300 kcmil	ORANGE 30	—	—	—	—	—	—	—
YA-46-L	1500 kcmil	GREEN 31	—	—	S46RT (3)	P46RT (3)	L46RT (2)	—	—
YA-47-L	1750 kcmil	GRAY 33	—	—	—	—	L47RT (2)	—	—
YA-48-L	2000 kcmil	BROWN 34	—	—	—	—	L48RT (3)	—	—

Catalog Number Type	Wire Size	Color Code and Die Index Number	Mechanical & Ratchet Dies Required (# Crimps)		Mechanical & Ratchet Dedicated Die Tools # Crimps				
	Class B, C Conductor (CU Only)		MD6 and MD7 Series <small>*Due to handle force not recommended</small>	OUR840 <small>*Due to handle force not recommended</small>	MY28 and MY29 Series	MRC840	MRE1022B Y8MRB1 Y10D Y1022	Y122CMR	Y1MRTC
YA-10	#14 - #10 Str #12 - #10 Sol	—	—	—	—	—	1 CRIMP	1 CRIMP	—
YA-8C-L	#8 AWG	RED 49	X8CRT (1) W8CRT (1) W8CVT (1)	X8CRT (1) W8CRT (1) W8CVT (1)	1 CRIMP	1 CRIMP	—	1 CRIMP	1 CRIMP
YA-6C-L	#6 AWG Str Sol	BLUE 7	X5CRT (1) W5CRT (1) W5CVT (1)	X5CRT (1) W5CRT (1) W5CVT (1)	1 CRIMP	1 CRIMP	—	1 CRIMP	1 CRIMP
YA-5C-L	#5 AWG	BLUE 7	X5CRT (1) W5CRT (1) W5CVT (1)	X5CRT (1) W5CRT (1) W5CVT (1)	1 CRIMP	1 CRIMP	—	1 CRIMP	1 CRIMP
YA-4C-L	#4 AWG	GRAY 8	X4CRT (1) W4CRT (1) W4CVT (1)	X4CRT (1) W4CRT (1) W4CVT (1)	1 CRIMP	1 CRIMP	—	2 CRIMPS	2 CRIMPS
YA-3C-L	#3 Str #2 Sol	WHITE 9	W3CRT (1)	W3CRT (1)	1 CRIMP	1 CRIMP	—	2 CRIMPS	2 CRIMPS
YA-2C-L	#2 AWG	BROWN 10	X2CRT (1) W2CRT (1) W2CVT (1)	X2CRT (1) W2CRT (1) W2CVT (1)	1 CRIMP	1 CRIMP	—	2 CRIMPS	2 CRIMPS
YA-1C-L	#1 AWG	GREEN 11	X1CRT1 (1) W1CRT1 (1) W1CVT (1)	X1CRT1 (1) W1CRT1 (1) W1CVT (1)	1 CRIMP	1 CRIMP	—	—	2 CRIMPS
YA-25-L	1/0 AWG	PINK 12	X25RT (2) W25RT (2) W25VT (2)	X25RT (2) W25RT (2)* W25VT (2)*	1 CRIMP	2 CRIMPS	—	—	—
YA-26-L	2/0 AWG	BLACK 13	X26RT (2) W26RT (2) W26VT (2)	X26RT (2) W26RT (2)* W26VT (2)*	1 CRIMP	2 CRIMPS	—	—	—
YA-27-L	3/0 AWG	ORANGE 14	X27RT (3) W27RT (2) W27VT (2)	X27RT (3) W27RT (2)* W27VT (2)*	1 CRIMP	2 CRIMPS	—	—	—
YA-28-L	4/0 AWG	PURPLE 15	X28RT (3) W28RT (2) W28VT (2)	X28RT (3) W28RT (2)* W28VT (2)*	1 CRIMP	2 CRIMPS	—	—	—
YA-29-L	250 kcmil	YELLOW 16	X29RT (4) W29RT (2) W29VT (2)	X29RT (4) W29RT (2)* W29VT (2)*	1 CRIMP	—	—	—	—
YA-30-L	300 kcmil	WHITE 17	W30RT (2)* W30VT (2)	—	—	—	—	—	—
YA-31-L	350 kcmil	RED 18	W31RT (2)* W31VT (2)	—	—	—	—	—	—
YA-32-L	400 kcmil	BLUE 19	W32RT (2)* W32VT (2)	—	—	—	—	—	—
YA-33-L	450 kcmil	GRAY 326	W33RT (2)* W33VT (2)	—	—	—	—	—	—
YA-34-L	500 kcmil	BROWN 20	W34RT (2)* W34VT (2)	—	—	—	—	—	—

Installation Instructions

Installation instructions help the installer understand proper wire preparation, proper insertion requirements, crimp zone location, individual crimp location, crimp order and crimp direction, to ensure safe and reliable wire connections. UL Listing and CSA Certification are only valid when using the BURNDY® Engineered System and following BURNDY Installation Instructions.

Copper Code Standard Barrel Installation Steps:

1. Select the appropriate connector based on:
Wire Material
Wire Construction
Wire Size
2. Strip the insulation to the appropriate wire strip length, based on the table's Wire Strip Length recommendation for the selected connector. Due to tolerances in the connector, wire strip length, and insulation stripping tools, this range may be 0" - 1/4". The exposed wire, also known as a "shiner", has no performance impact on the connection and there is no wire exposure requirement by BURNDY.
3. As a best practice, wire brush the bare conductor to remove any oxides. DO NOT wire brush tin-plated connectors.
4. Insert the conductor into the barrel for the full length. If the connector has an inspection window, the conductor end can easily be seen to verify full wire insertion.
5. Apply the proper number of crimps specified by the appropriate illustration.
6. *Some catalog numbers require overlapping crimps when using the 81K or 4PC Series of installation tools. Please refer to the overlapping crimp image that is applicable based on the number of crimps required. Overlap each consecutive crimp so that the completed installation of all overlapping crimps covers the entire crimp zone.
7. Once all crimps have been completed, the connection can be easily inspected for proper installation.

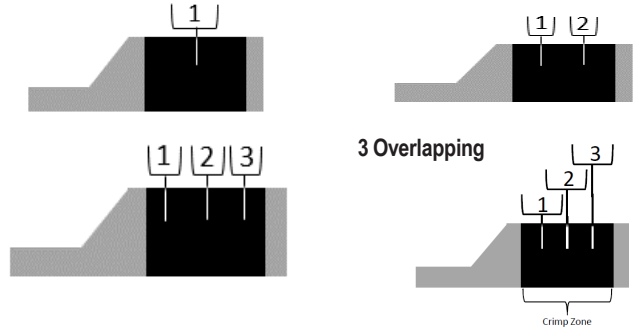
NOTE: Illustrations show black bands however this is just a representation of the crimp zones. See individual connector for actual crimp band color.

Example: YA28LBOX

- Go to the YA-28-L Catalog Number Designation for 4/0 AWG.
- Confirm the Tool (750 Series for this example).
- Confirm the Die Set Needed (U28RT for this example)
- Confirm the Number of Crimps Necessary (1 for this example)
- For proper crimp placement refer to the image on this page corresponding to the number of crimps.



CATALOG NUMBER DESIGNATIONS					
YA-8C-L	YA-6C-L	YA-5C-L	YA-4C-L	YA-3C-L	YA-2C-L
YA-1C-L	YA-37-L*	YA-38-L*	YA-40-L*	YA-41-L*	YA-44-L*



CATALOG NUMBER DESIGNATIONS					
YA-25-L	YA-26-L	YA-27-L*	YA-28-L*	YA-29-L*	YA-30-L*
YA-31-L*	YA-32-L*	YA-33-L*	YA-34-L*	YA-35-L*	YA-36-L*
YA-39-L*	YA-45-L	YA-453-L	YA-46-L	YA-47-L	YA-48-L

