



AYPO500, Compression Pin Adapter, 500 kcmil, .68 Pin Dia, 1.6" Pin Length, AL9CU

By Burndy
Catalog # [AYPO500](#)

Aluminum Compression Pin Adapter, 500 kcmil, 0.68" Plug Dia, 1.60" Plug Length, Al/Cu Rated.

Features

- All-aluminum electro-tin plated design eliminates possible bi-metallic corrosion
- Provides the shortest connector length design possible permitting easy installation in equipment with limited working space
- Solid electro-tin plated aluminum plug
- Proper electrical connection made easily and eliminates the "how tight is tight" issue
- Solid plug has equivalent cross-sectional area as current carrying equivalent copper wire permitting use of larger aluminum wire to connect equipment
- Offset plug design available in sizes 2/0 through 750 kcmil providing flexibility and maximizing the use of limited space while eliminating interference between conductors and equipment
- Electro-tin plating resists corrosion
- Factory pre-filled with PENETROX oxide inhibiting compound with conductive metallic particles to penetrate aluminum oxide between strands and forms an air-tight connection
- EPDM rubber covers supplied with each connector and rated for 600V eliminating taping
- Only 5 die sets are required to install the complete line from #6 to 750 kcmil reducing inventory requirements
- Supplied in plastic convenience pack so cover and connector are kept together and free of foreign material until opened
- Connectors are clearly marked with catalog number, wire size, along with a color-coded die index providing clear, easy to use information

Application

- Wire Termination

General

Catalog Number	AYPO500
Color Code	Pink
Connector Type	OFFSET PIN
Die Index	300
EU RoHS Indicator	Yes
Finish Type	Tin-Plated
Insulation	Y
Insulation Type	Rubber



Material	ALUMINUM
Physical Attribute - Number of Crimps Required	4
Pin Type	Solid
Plated	Y
Plating Type	Tin
Sub Brand	HYPLUG
Temperature Rating	194
Terminal Type	Pin
Trade Name	HYPLUG™
Type	Aluminum Pin Adapters
UPC	781810738481
UPC 14 Digit GTIN	00781810738481

Dimensions

Dimension - A Outside Diameter inch	1.31 in
Dimension - B Length fraction	1-1/16 in
Dimension - B Length inch	1.07 in
Dimension - B Outside Diameter inch	0.68 in
Dimension - L Length Overall mm	87 mm
Dimension - Length Overall inch	3.43 in
Dimension - P inch	1.60 in
Dimension - Strip Length inch	1-1/8 in
Equivalent Pin Size	350 kcmil

Electrical Ratings

Voltage - Maximum	35000 V
Voltage Rating	35 kV

Conductor Related

Conductor - AL Str Size	500 KCMIL
Conductor - AL Str Size Range	500 kcmil
Conductor - Copper DLO Size	373 KCMIL
Conductor - Copper DLO Size Range	373 kcmil
Conductor - Copper Flex I Size	500 KCMIL
Conductor - Copper Flex I Size Range	500 kcmil

Conductor - Copper Str Compact Size	500 KCMIL
Conductor - Copper Str Size	500 KCMIL
Conductor - Copper Str Size Range	500 kcmil
Conductor - Material	ALUMINUM / COPPER
Conductor Size	500 KCMIL
Conductor Type	CODE/FLEX
Wire Size	500 KCMIL

Certifications And Compliance

Buy America(n) Qualified	TAA Compliant (All status valid till December 2024)
Certification - CSA Approved	Yes
Certification - ETL	No
Certification - UL Recognized	No
Certification - cULus	No
Industry Standard(s)	UL 486A-486B
Standards - Industry Standards Met	UL 486A-486B

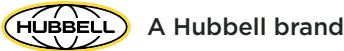
Standards - RoHS Compliance Status	CM
UL Listed	Yes

Logistics

Carton Quantity	10
Minimum Pack Quantity	1
Pallet Quantity	2960

Product Assets

- [3D Models - AYPO500_MODEL-PDF](#)
- [3D Models - AYPO500_MODEL-IGES](#)
- [3D Models - AYPO500_MODEL-STEP](#)
- [Catalogs - BURNDY Master Catalog - Section C - Compression Connections](#)
- [Catalogs - BURNDY Master Catalog - Full Line BURNDY Catalog](#)
- [Customer Notices - Prop 65 Notice](#)
- [Interactive Catalog - BURNDY Full-Line Digital Catalog](#)
- [Sales Drawings - 50103891](#)
- [Specifications - AYPO500](#)



CATALOG NO	COVER CATALOG NO	ACCOMMODATES		FIG	DIMENSIONS							INSTALLATION TOOLING (# CRIMPS)					DIELESS (# CRIMPS)	WIRE STRIP LENGTH							
		AL: CLASS B CU: CLASS B, C	COPPER FLEX		B	LL	L	O.D	O.D.P	P	DIE INFORMATION		HYDRAULIC		MECHANICAL										
											COLOR CODE	DIE INDEX	35, 750 SERIES	46 SERIES	MD6										
AYP6	AYP6C	#6 AWG	#8 AWG CLASS I, DLO	1	1.00 [25]	2.03 [52]	1.85 [47]	0.60 [15]	0.23 [6]	0.69 [17]	TAN	296	S	W241 (2)		644 (1) 444 (1) 81KFT (1)	1-1/16"								
AYP4	AYP6C	#4 AWG	#6 AWG CLASS I, DLO	1					0.23 [6]																
AYP2	AYP6C	#2 AWG	#4 AWG CLASS I, DLO	1					0.23 [6]																
AYP1	AYP6C	#1 AWG	#2 AWG CLASS I, DLO	1			2.01 [51]	0.26 [7]	0.84 [21]																
AYP1/0	AYP6C	1/0 AWG	#1 AWG CLASS I, DLO	1				0.29 [7]																	
AYPO2/0	AYPO26C	2/0 AWG	1/0 AWG CLASS I, DLO	2	1.11 [28]	2.44 [62]	2.70 [69]	.86 [22]	0.33 [8]	1.09 [28]	WHITE	298	U28ART (2)	W660 (4)		644 (1) 444 (1) 81KFT (2)	1-1/8"								
AYPO3/0	AYPO26C	3/0 AWG	2/0 AWG CLASS I, DLO	2			2.80 [71]		0.37 [9]	1.22 [31]															
AYPO4/0	AYPO26C	4/0 AWG	3/0 AWG CLASS I, DLO	2																					
AYP250	AYP250C	250 KCMIL	4/0 AWG, CLASS I,K,M, DLO	1	1.07 [27]	2.88 [65]	2.63 [67]	1.10 [28]	0.47 [12]	1.34 [34]	BROWN	299	U31ART (2)	--	--	644 (1) 444 (1) 81KFT (2)	1-1/8"								
AYPO250	AYPO250C			2			2.98 [76]																		
AYPO300	AYPO250C	300 KCMIL	250 KCMIL CLASS I, 262 DLO	2			3.08 [78]		0.53 [14]																
AYP350	AYP250C	350 KCMIL	313 KCMIL DLO	1			2.75 [70]		0.58 [15]	1.60 [40]															
AYPO350	AYPO250C			2			3.08 [78]																		
AYPO400	AYPO400C	400 KCMIL	--	2			3.43 [87]	1.31 [33]	0.63 [16]	1.60 [40]															
AYP500	AYP400C	500 KCMIL	350 KCMIL CLASS I, 373 DLO	1			3.08 [78]		0.68 [17]																
AYPO500	AYPO400C			2			3.43 [87]																		
AYPO600	AYPO900C	600 KCMIL	444 KCMIL DLO	2			1.59 [40]	4.06 [103]	4.02 [102]	1.46 [37]	0.73 [19]	1.64 [42]	YELLOW	936 HEX	U39ART (3)	--	--	644 (1) 444 (1) 81KFT (3)	1-3/4"						
AYP750	AYPO900C	750 KCMIL 900 KCMIL AL CMPT	535 KCMIL DLO	1					3.79 [96]		0.81 [21]	1.76 [45]													
AYPO750	AYPO900C			2					4.16 [106]																
AYPO900	AYPO900C	900 KCMIL	--	2	2.17 [55]	4.12 [105]	4.27 [108]	1.50 [38]	0.91 [23]	1.82 [46]	GREY	303	U42ART (4)	--	--	644 (2) 444 (2)									
AYPO1000	AYPO8001000	1000 KCMIL	777 KCMIL DLO	2	1.59 [40]	4.09 [104]	4.17 [106]	1.84 [47]	.81 [21]	1.76 [45]	--	--	--	--	--	644MBH (1) 444 (1)									

- NOTES:
1. TIN PLATED ALUMINUM COMPRESSION PIN ADAPTER.

2. CONNECTION: COMPRESSION CONNECTIONS ARE MADE IRREVERSIBLE AND MAINTENANCE FREE.

3. APPLICABLE STANDARDS: CONNECTORS ARE ONLY UL LISTED AND CSA CERTIFIED WHEN INSTALLED WITH THE BURNDY ENGINEERED SYSTEM AND SELECT OTHER CRIMP TOOL MANUFACTURERS IN ACCORDANCE WITH ONE OR MORE UL CATEGORIES. UL LISTED AND CSA CERTIFIED WIRE-CONNECTOR ADAPTERS. TESTED IN ACCORDANCE TO UL 486A-486B / CSA C22,2 NO.65

4. TEMPERATURE AND VOLTAGE RATING:

A. UP TO 35KV WITHOUT COVER. CONNECTORS ARE MARKED AL9CU TO DENOTE ALUMIUM(AL) OR COPPER (CU) WIRE UP TO 90°C.

B. ONE COVER SUPPLIED WITH THE CONNECTOR.

C. RATED 600 VOLT UP TO 90°C.

D. MADE FROM THE FOLLOWING MATERIALS: EPDM RUBBER, SANTOPRENE, OR PVC.

5. WIRE ACCOMMODATE TYPES (SEE TABLE): DUAL RATED TO ACCOMMODATE ALUMINUM AND COPPER WIRE.

A. ALUMINUM WIRE (AL): CLASS B (CONCENTRIC, COMPRESSED, COMPACT)

B. COPPER WIRE (CU): CLASS B (CONCENTRIC, COMPRESSED, COMPACT) OR CLASS C.

C. COPPER FLEX (CU): SEE TABLE FOR APPLICABLE WIRE CLASSES.

6. FEATURES:

A. SOLID PIN DESIGN ELIMINATES “HOW TIGHT IS TIGHT” TORQUE REQUIREMENT PROBLEM AND ELIMINATES OVER TORQUING ON STRANDED PIN ADAPTERS THAT COULD DAMAGE THE PIN AND CONNECTION.

B. SOLID PIN IS RATED FOR THE FULL AMPACITY OF THE INCOMING CONDUCTOR.

C. INLINE AND OFFSET PIN DESIGNS ARE AVAILABLE. OFFSET PIN DESIGN PROVIDES ADDED FLEXIBILITY IN LIMITED SPACE APPLICATIONS AS THE CONNECTORS CAN BE ROTATED.

D. BARREL TYPICAL ROLL MARKINGS (AS SPACE PERMITS): CRIMP ZONE IS INDICATD BY KNURL BANDS, BURNDY CORPORATE NAME OR LOGO, UL LOG (IF APPLICABLE), CSA LOGO (IF APPLICABLE), WIRE SIZE, DIE COLOR CODE, INDEX NUMBER.

E. BARREL DESIGN: BARREL END AT THE WIRE HAS AN INTERNAL FLARE, ALLOWING FOR SMOOTH WIRE INSERTION.

F. PRE-FILLED WITH PENETROX™A13, WHICH IS AN OXIDE INHIBITOR.

G.COLOR-CODED END CAPS TO MATCH THE DIE COLOR CODE. THIS ALSO PREVENTS PARTICLES FROM ENTERING THE BARREL.

7. INSTALLATION TOOLING AND DIES ARE CONSTANTLY BEING UPDATED. FOR THE LATEST INSTALLATION TOOLING INFORMATION, REFER TO THE MASTER CATALOG ON THE BURNDY WEBSITE.

8. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHER SPECIFIED AND ARE FOR REFERENCE ONLY.

9. FOR PROPER INSTALLATION INSTRUCTIONS, SEE PRODUCT INSTALLATION GUIDE ON THE LAST SHEET.

10. NOT UL LISTED OR CSA CERTIFIED WITH THESE DIES.

REV

DATE

DESCRIPTION

ECO

BY

C'H'K.

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11/08/2021

MU UPDATION

210816011303

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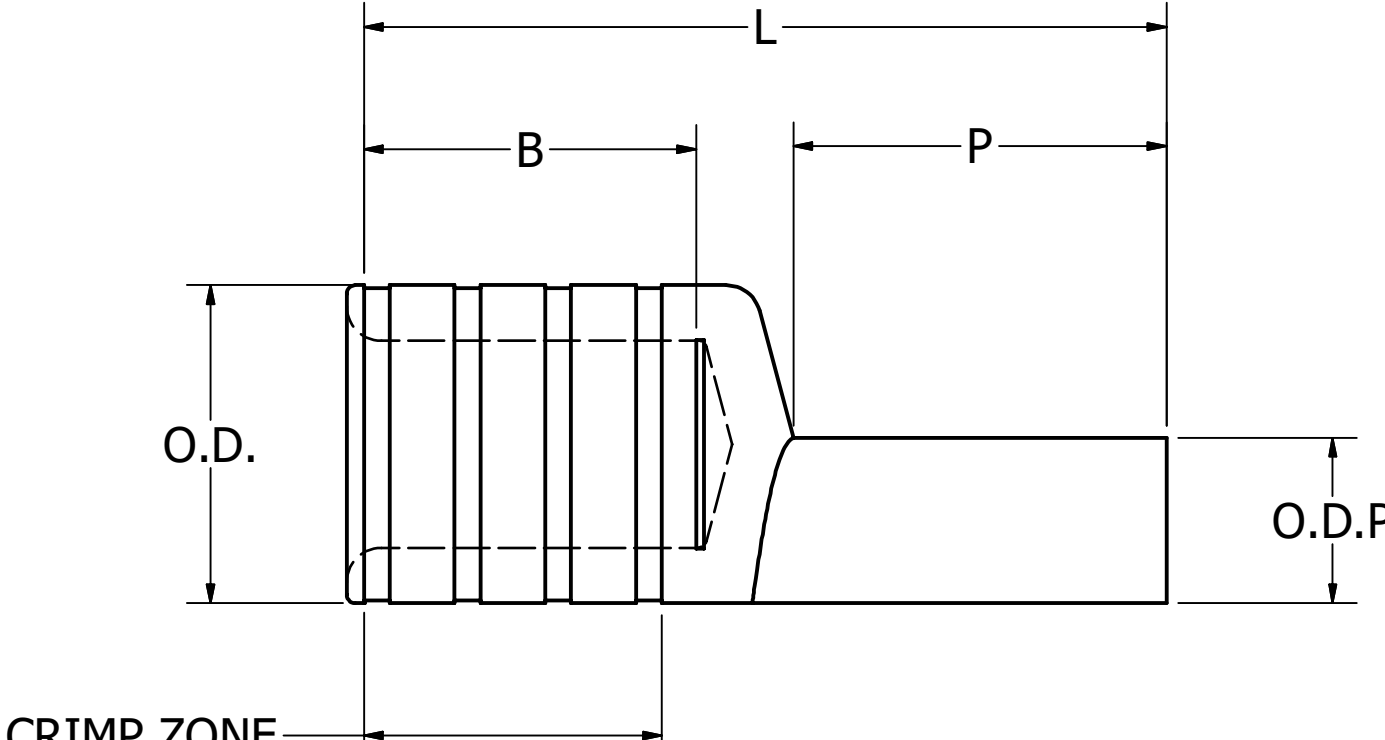
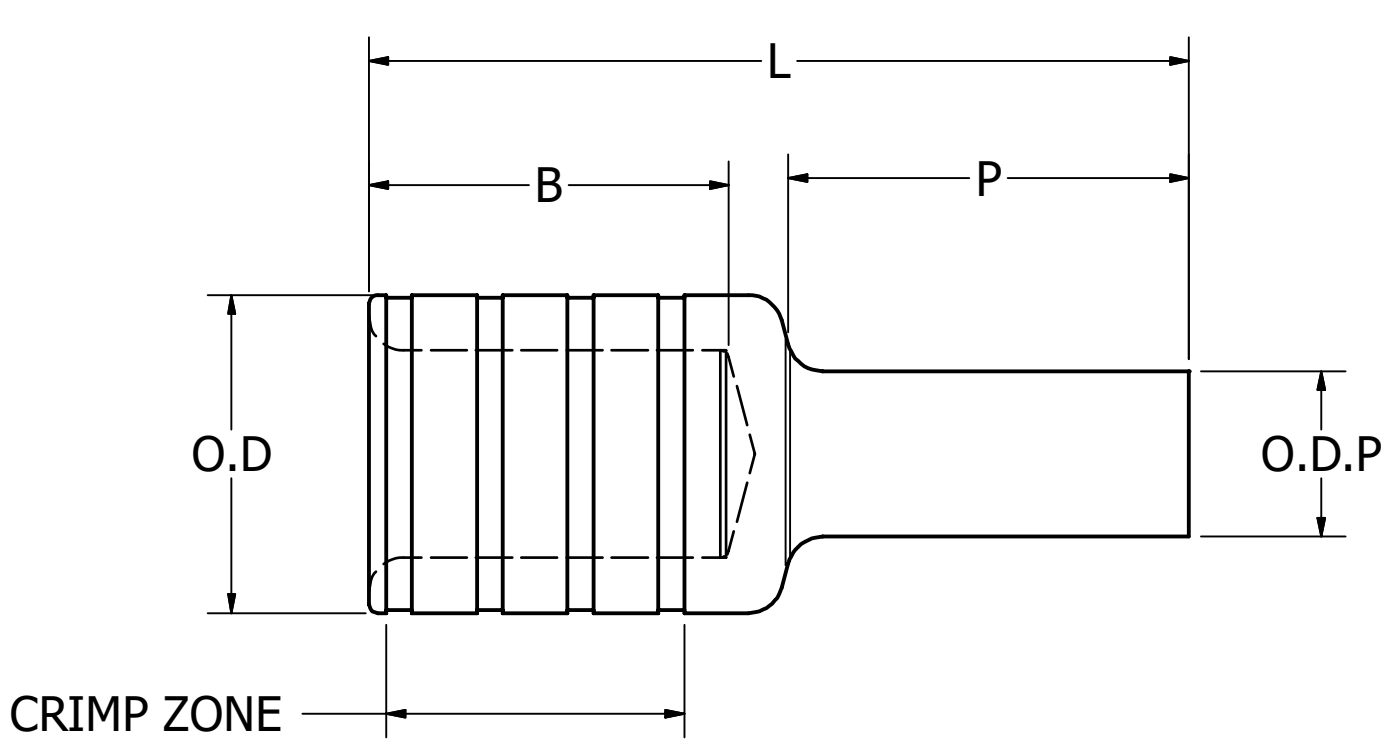
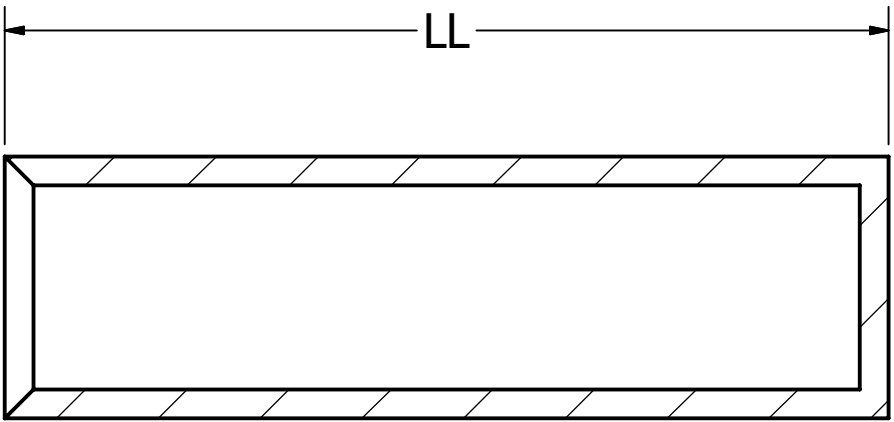


Figure -1

Figure -2



INSULATION COVER

TO ORDER BURNDY® PRODUCTS CALL				HYLINK™			
UNITED STATES 1-800-346-4175 (LONDONDERRY, NH) CANADA: 1-800-361-6975 (QUEBEC) 1-800-387-6487 (ALL OTHER PROVINCES) FOR PRODUCT INFO: http://www.burndy.com				ITEM NO: SEE TABLE			
				CAT. NO: SEE TABLE			
				DRAWN BY:	ESK	08/24/1972	
				CHECKER:	SFP	08/25/1972	
				DSN APRVL:	D.C.W.	12-12-1972	
				MFG APRVL:	--	--	
				QA APRVL:	D VARIO	07-25-1995	DRAWING NO
				MKT APRVL:	P WERTHMAN	04-17-1995	
				PROD FAM:	50103891	--	
				PROJECT #:	--	--	
				DOCUMENT TYPE:	SALES	--	50103891
				REL LEVEL:	Released	--	
				SIZE		D	SHEET 1 OF 3
				REV		D	

Catalog Number	Wire Accommodates		Wire Strip Length	Color Code and Die Index Number	Hydraulic Tools - Dies Required			Hydraulic Tools - Dieless			
	AL: Class B CU: Class B,C	Copper Flex			750, 35 Series	45 Series <i>Use PT6515 with U Dies</i>	46 Series <i>Use PUADP1 with U Dies</i>	81K, 4PC Series	644 Series	644MBH	444S Series
AYP6	6 AWG	8 AWG CLASS I, DLO	1-1/16"	Tan 296	U25ART (1)	U25ART (1)	U25ART (1)	1 CRIMP	1 CRIMP	1 CRIMP	1 CRIMP
AYP4	4 AWG	6 AWG CLASS I, DLO	1-1/16"	Tan 296	U25ART (1)	U25ART (1)	U25ART (1)	1 CRIMP	1 CRIMP	1 CRIMP	1 CRIMP
AYP2	2 AWG	4 AWG CLASS I, DLO	1-1/16"	Tan 296	U25ART (1)	U25ART (1)	U25ART (1)	1 CRIMP	1 CRIMP	1 CRIMP	1 CRIMP
AYP1	1 AWG	2 AWG CLASS I, DLO	1-1/16"	Tan 296	U25ART (1)	U25ART (1)	U25ART (1)	1 CRIMP	1 CRIMP	1 CRIMP	1 CRIMP
AYP1/0	1/0 AWG	1 AWG CLASS I, DLO	1-1/16"	Tan 296	U25ART (1)	U25ART (1)	U25ART (1)	1 CRIMP	1 CRIMP	1 CRIMP	1 CRIMP
AYPO2/0	2/0 AWG	1/0 AWG CLASS I, DLO	1-1/8"	White 298	U28ART (2) OVERLAPPING	U28ART (2) OVERLAPPING	U28ART (2) OVERLAPPING	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYPO3/0	3/0 AWG	2/0 AWG CLASS I, DLO	1-1/8"	White 298	U28ART (2) OVERLAPPING	U28ART (2) OVERLAPPING	U28ART (2) OVERLAPPING	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYPO4/0	4/0 AWG	3/0 AWG CLASS I, DLO	1-1/8"	White 298	U28ART (2) OVERLAPPING	U28ART (2) OVERLAPPING	U28ART (2) OVERLAPPING	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYP250	250 kcmil	4/0 AWG CLASS I,K,M,DLO	1-1/8"	Brown 299	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYPO250	250 kcmil	4/0 AWG CLASS I,K,M,DLO	1-1/8"	Brown 299	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYPO300	300 kcmil	250 kcmil CLASS I, 262 DLO	1-1/8"	Brown 299	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYP350	350 kcmil	313 kcmil DLO	1-1/8"	Brown 299	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYPO350	350 kcmil	313 kcmil DLO	1-1/8"	Brown 299	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	U31ART (2) OVERLAPPING	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYPO400	400 kcmil	--	1-1/8"	Pink 300	U34ART (2)	U34ART (2)	U34ART (2)	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYP500	500 kcmil	350 kcmil CLASS I, 373 DLO	1-1/8"	Pink 300	U34ART (2)	U34ART (2)	U34ART (2)	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYPO500	500 kcmil	350 kcmil CLASS I, 373 DLO	1-1/8"	Pink 300	U34ART (2)	U34ART (2)	U34ART (2)	2 CRIMPS	1 CRIMP	1 CRIMP	1 CRIMP
AYPO600	600 kcmil	444 kcmil DLO	1-3/4"	Yellow 936	U39ART (3)	U39ART (3)	U39ART (3)	3 CRIMPS	1 C RIMP	1 C RIMP	1 CRIMP
AYP750	750 kcmil	535 kcmil DLO	1-3/4"	Yellow 936	U39ART (3)	U39ART (3)	U39ART (3)	3 CRIMPS	1 C RIMP	1 C RIMP	1 CRIMP
	900 kcmil AL CMPT				--	--	--	--	1 C RIMP	1 C RIMP	1 CRIMP
AYPO750	750 kcmil	535 kcmil DLO	1-3/4"	Yellow 936	U39ART (3)	U39ART (3)	U39ART (3)	3 CRIMPS	1 C RIMP	1 C RIMP	1 CRIMP
	900 kcmil AL CMPT				--	--	--	--	1 C RIMP	1 C RIMP	1 CRIMP
AYPO900	900 kcmil	--	1-3/4"	Grey 303	U42ART (4)	--	--	--	2 CRIMPS	1 CRIMP	2 CRIMPS
AYPO1000	1000 kcmil	777 kcmil DLO	1-3/4"	--	--	--	--	--	--	1 CRIMP	1 CRIMP

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UNITED STATES
1-800-346-4175 (LONDONDERRY, NH)

CANADA:
1-800-361-6975 (QUEBEC)
1-800-387-6487 (ALL OTHER PROVINCES)

FOR PRODUCT INFO: <http://www.burndy.com>

HYLINK™

ITEM NO: SEE TABLE

CAT. NO: SEE TABLE

DRAWN BY: ESK08/24/1972

CHECKER: SFP08/25/1972

DSN APRVL: D.C.W.12-12-1972

MFG APRVL: --

QA APRVL: D VARIO07-25-1995

MKT APRVL: P WERTHMAN04-17-1995

PROJ FAM: 50103891

PROJECT #: --

DOCUMENT TYPE: SALES

REL LEVEL: Released

SIZE

D

DRAWING NO

50103891

SHEET 2 OF 3

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REV

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DATE

11/08/2021

DESCRIPTION

MU UPDATION

ECO

210816011303

BY

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YR

Installation Instructions:

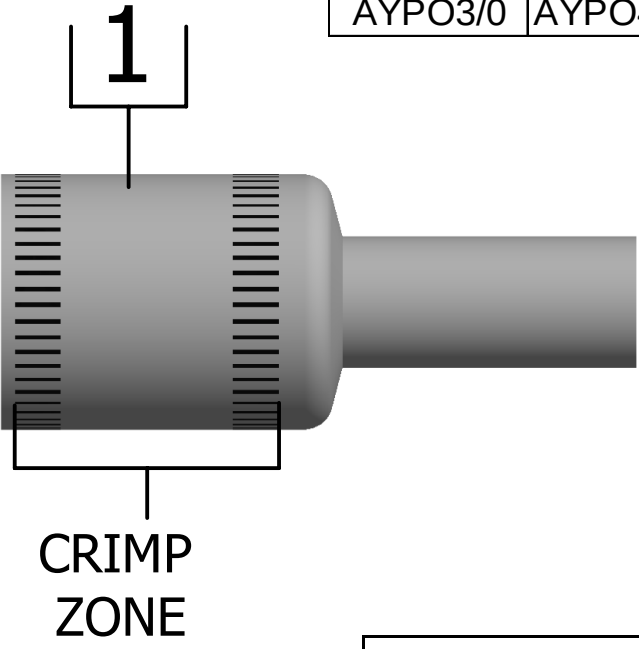
Installation instructions help the installer understand proper wire preparation, proper insertion requirements, crimp zone location, individual crimp location, crimp order and crimp direction, to ensure safe and reliable wire connections. In order to obtain a UL Listing BURNDY certifies its products using the BURNDY Engineered System and select other crimp tool manufacturers in accordance with one or more UL categories.

Installation Steps: **For simplicity, the images show an inline pin, however, connectors are available in offset pins.*

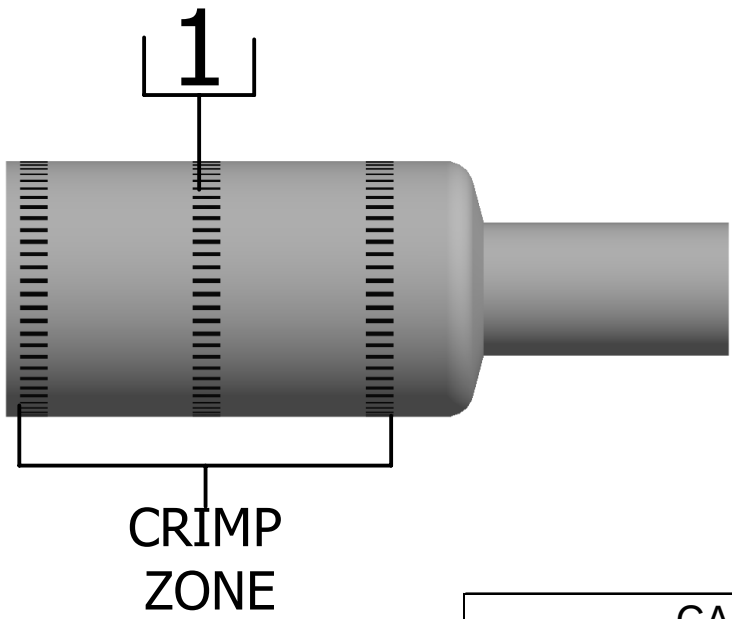
1. Select the appropriate connector based on:
Wire Material
Wire Construction
Wire Size
2. Strip the insulation to the appropriate wire strip length, based on the table's Wire Strip Length recommendation for the selected connector.
3. Wire brush the bare conductor to remove any oxides. DO NOT wire brush plated connectors.
4. Insert the conductor into the barrel for the full length. The connector barrel is filled with PENETROX™ A13, so be aware of the following:
Oxide inhibitor may discharge rom the barrel when wire is fully inserted.
Oxide inhibitor may cause resistance that could feel like the wire is fully inserted. Ensure you insert the wire with enough force to penetrate the oxide inhibitor barrier until you reach the full wire insertion distance.
5. Apply the proper number of crimps based on the installation tooling requirements. Use the illustrations as a guide on crimp placement and direction for the proper number of crimps.
6. Remove excess PENETROX™ A13 that may discharge during installation.

REV	DATE	DESCRIPTION	ECO	BY	C'H'K.
D	11/08/2021	MU UPDATION	210816011303	SS	YR

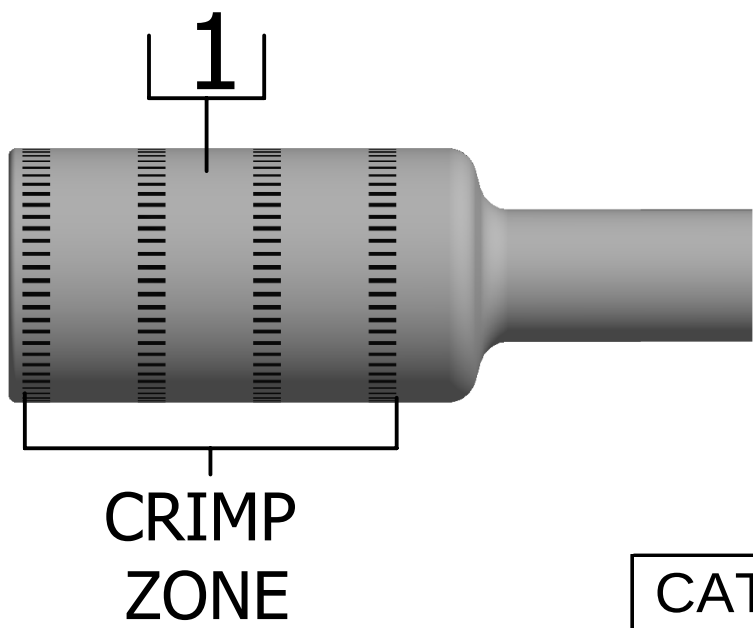
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AYPO3/0	AYPO4/0	AYP250	AYPO250	AYPO300	AYP350



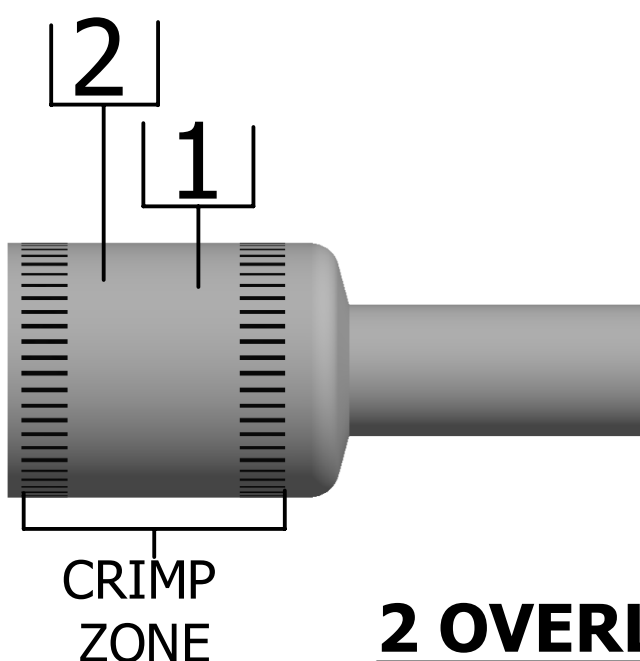
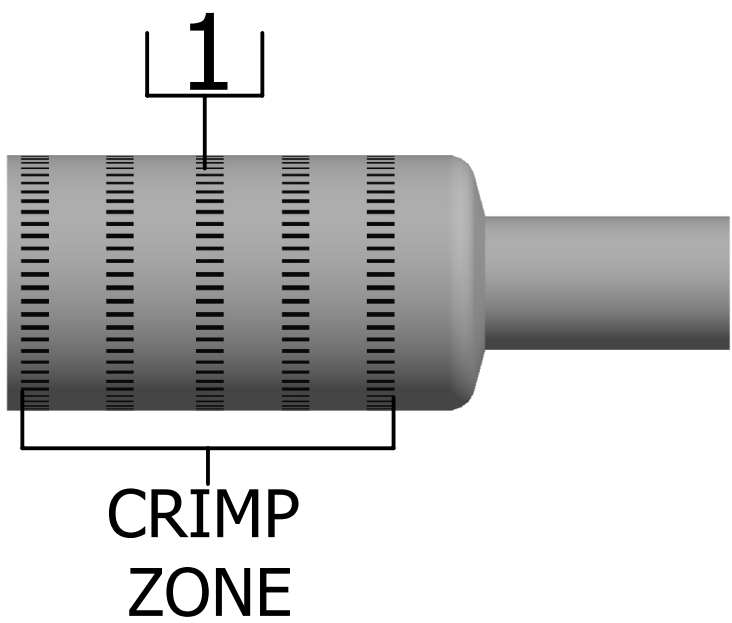
CATALOG NUMBER DESIGNATIONS		
AYPO400	AYP500	AYPO500



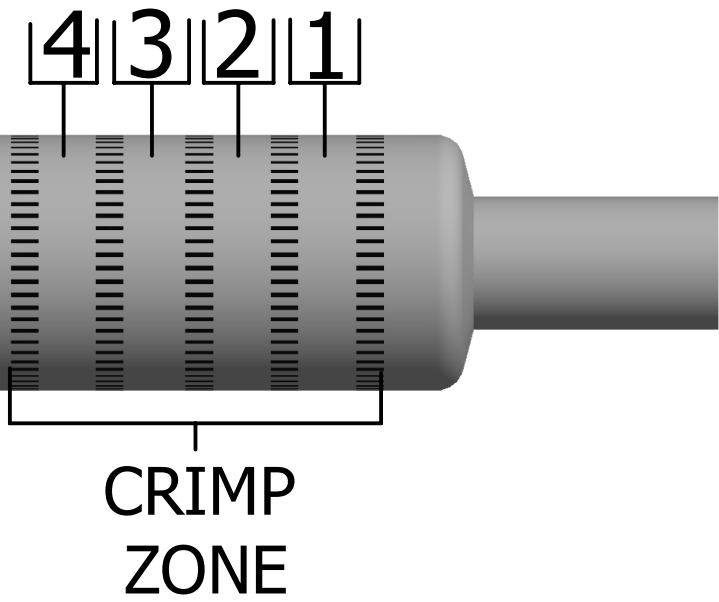
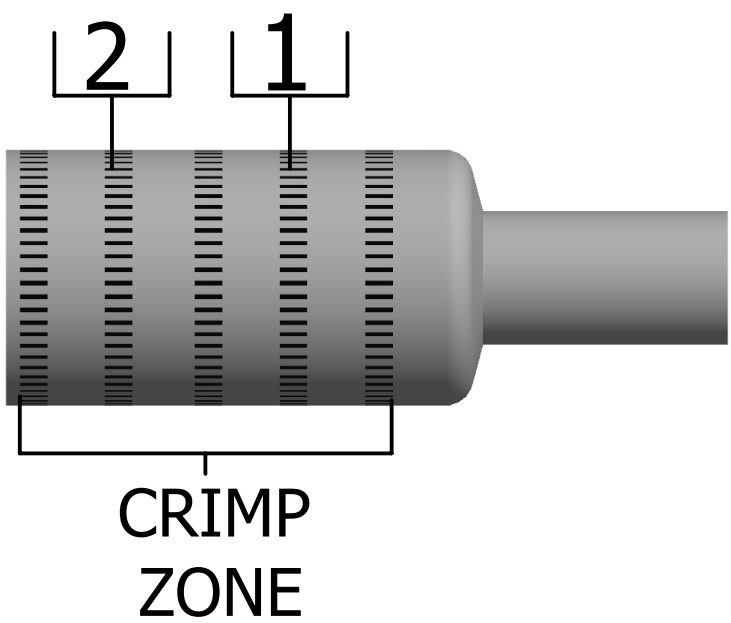
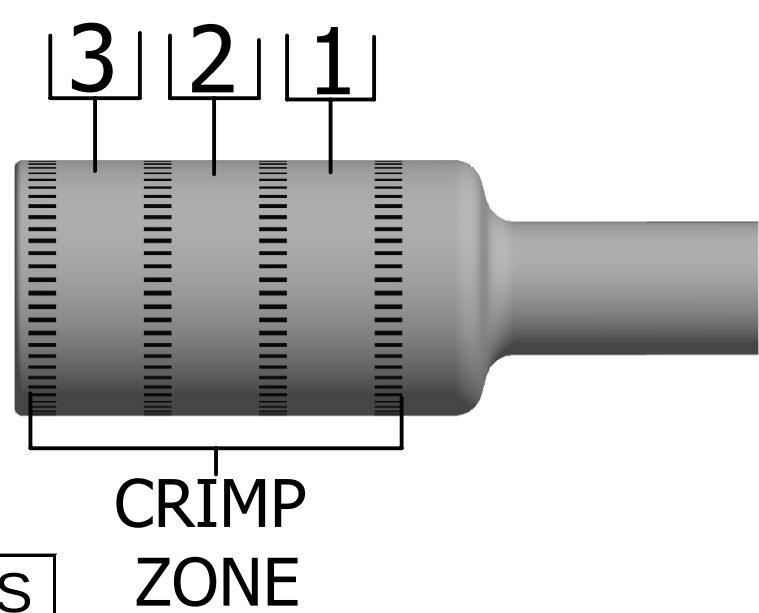
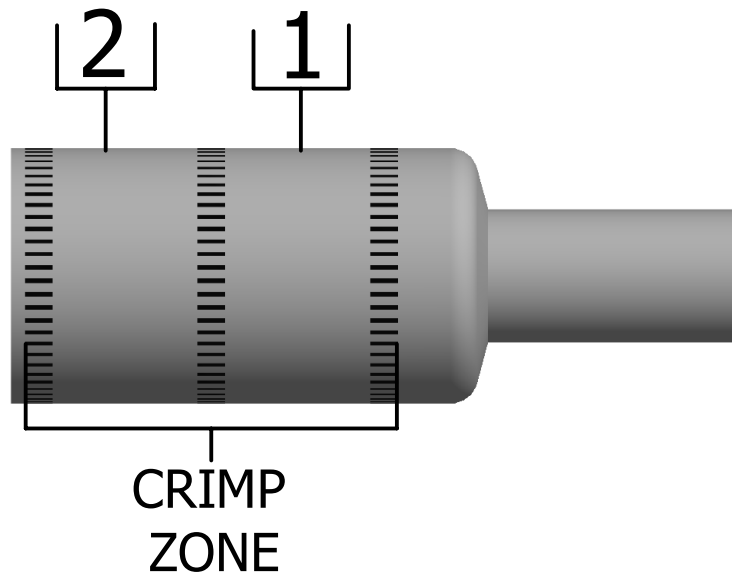
CATALOG NUMBER DESIGNATIONS			
AYPO600	AYP750	AYPO750	AYPO1000



CATALOG NUMBER DESIGNATIONS	
AYP900	AYP0900



2 OVERLAPPING



TO ORDER BURNDY® PRODUCTS CALL		HYLINK			
UNITED STATES		ITEM NO: SEE TABLE			
1-800-346-4175 (LONDONDERRY, NH)		CAT. NO: SEE TABLE			
CANADA:		DRAWN BY: ESK	08/24/1972		
1-800-361-6975 (QUEBEC)		CHECKER: SFP	08/25/1972		
1-800-387-6487 (ALL OTHER PROVINCES)		DSN APRVL: D.C.W.	12-12-1972		
FOR PRODUCT INFO: http://www.burndy.com		MFG APRVL: --			
		QA APRVL: D VARIO	07-25-1995		
		MKT APRVL: P WERTHMAN	04-17-1995		
		PROD FAM: 50103891		DRAWING NO	REV
		PROJECT #:	SIZE	50103891	D
		DOCUMENT TYPE: SALES	D		
		REL LEVEL: Released		SHEET 3 OF 3	