

# Compression Connections

## Aluminum / Copper Compression HYLINK™ Aluminum Splices

### TYPE YS-A

#### HYLINK™ Aluminum Splices

UL Listed 90° C, Up to 35 kV ♦

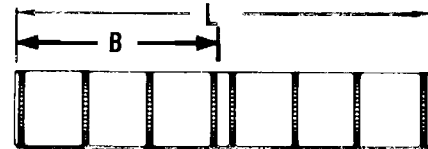
Type YS-A is a high conductivity aluminum tin-plated compression butt splice for use on all combinations of aluminum to aluminum, aluminum to copper, and copper to copper conductor combinations.

They are designed to accommodate conductors from #12 stranded through 1000 kcmil in standard and heavy duty applications. Prefilled with PENETROX™ oxide inhibiting compounds and assembled with color-coded end caps, the connectors provide a permanent trouble-free electrical splice with flexibility and low installed cost.



### Features & Benefits

- Aluminum splices are dual rated to accommodate both copper and aluminum wire and are indicated with AL-CU on the connector:
  - AL9CU indicates the terminal can accommodate aluminum and copper wire and is UL Listed 90°C, up to 35kV
  - AL7CU indicates the terminal can accommodate aluminum and copper wire and is UL Listed 75°C, up to 35kV
- Barrel is designed with an internal chamfer at the wire entry to ensure smooth insertion of the wire, preventing possible damaging of the wire strands during insertion
- Electro-tin plated unless otherwise specified to reduce galvanic corrosion (bimetallic) and resist corrosive elements
- Connectors are clearly marked with wire size, die index, color code, and crimp location bands
- Factory pre-filled with PENETROX™ Type A13 oxide inhibitor
- Color coded end caps are factory inserted in the barrels to match the die color code and prevent foreign materials from entering the barrel
- Aluminum oxidation is not easily detected but causes resistance in a connection; it is imperative the proper preparation takes place prior to making an aluminum-to-aluminum connection
- BURNDY certifies its products using the BURNDY Engineered System and select other crimp tool manufacturers in accordance with one or more of the UL categories in order to obtain a UL Listing
- Conductor Accommodate Types:
  - Aluminum Code Wire: Class B (Concentric, Compressed, Compact)
  - Copper Code Wire: Class B (Concentric, Compressed, Compact or Class C)
  - Copper Clad Aluminum: Noted in the conductor accommodates as CCA



### Accessories

- Hardware - Section F
- PENETROX™ Oxide Inhibitor - Section F
- Heat and Cold Shrink Tubing - Section D
- WIREMIKE™ Wire Micrometer - Section F
- Wire Management (Cable Ties) - Section G

## TYPE YS-A (Continued)



Catalog Number	Code ● Conductor	Dimensions		Installation Tooling ▲					Wire Strip Length
				Dieless (# of crimps/end)		35 ■, 750, 46* Series		Die Index & Embossment	
		B	L	Mechanical	Hydraulic	Die Number (# of crimps per end)	Color Code		
YS12AG1	#12 Str.	0.45	1.03	Ratchet: MR827 (1)	—	—	— ①	—	5/8
YS10WAG1	#10 Sol.	0.50	1.12	MY293 (1) MRC840AL (1)	644 Series (1) 81K Series (1)	U8CABT (1)	Blue	374	5/8
YS8CA1	8 Str.	0.59	1.44			U6CABT (1)	Gray	346	3/4
YS6CA1	6 Str.	0.72	1.70	MY293 (1) MRC840AL (2)	644 Series (1) 81K Series (2)	U4CABT (1)	Green	375	7/8
YS4CA1	4 Str.	0.86	1.97			U2CABT (1)	Pink	348	1-1/8
YS2CA1	2 Str.	1.09	2.44	MY293 (2) MRC840AL (3)	644 Series (1) 81K Series (2)	U1CART (1)	Gold	471	15/16
YS1CA1	1 Str.	0.90	2.05			U25ART (1)	Tan	296	1-1/16
YS25A1	1/0 Str.	1.06	2.37			U26ART (2)	Olive	297	1-3/8
YS26A1	2/0 str.	1.18	2.61			U27ART (2)	Ruby	467	1-1/2
YS27A1	3/0 str.	1.31	2.88			U28ART (2)	White	298	1-5/8
YS28A1	4/0 str.	1.40	3.06			U29ART (2)	Red	324	1-5/8
YS29A1	250kcmil	1.46	3.18			U30ART (2)	Blue	470	1-3/4
YS30A1	300 kcmil	1.47	3.20			—	644 Series (1) 81K Series (2)	U31ART (2)	Brown
YS31A1	350 kcmil	1.89	4.04	—	644 Series (1) 81K Series (4)	U32ART (2)	Green	472	2-1/2
YS32A1	400kcmil	2.30	4.86			U34ART (2)	Pink	300	2-5/8
YS34A1	500 kcmil	2.38	5.02			U36ART (4)	Black	473	2-7/8
YS36A1	600 kcmil	2.44	5.14			U39ART2 (4)	Yellow	936	2-7/8
YS39A1	700 kcmil 750 kcmil +900 Compact Al	2.50	5.26			P39ART** (4)	Red	301	2-7/8
YS39AM1	700 kcmil 750 kcmil +900 Compact Al	2.63	5.58	—	644 Series (2)	U42ART (4)	Gray	303	2-7/8
YS42A1	600 - 900 kcmil	2.50	5.26			P44ART** (4)	Brown	302	3
YS44A1	1000 kcmil	2.84	5.94			P48PR1/ L44ART** (6)	Brown	302	2-7/8
YS45A1^^	1250 kcmil	2.84	6.21			L46ART*** (2)	Blue	478	3-7/8
YS46A1^^	1500 kcmil	3.40	7.05			L47ART*** (2)	White	587	4
YS47A1^^	1750 kcmil	3.99	8.31			L48ART*** (2)	Red	479	3-5/8
YS48A1^^	2000 kcmil	3.66	7.58			L48ART*** (2)	Red	479	3-5/8
YS483A1^^	2250 kcmil ALUMINUM ONLY	3.66	7.58						

▲ See tooling section of this catalog for complete tool and die listing.

① No color code assigned.

‡ UL Listed for Aluminum only. Not CSA Certified.

+ Tested with Y644HSXT and PAT644XT-18V dieless tools only and not UL Listed with any tool on 900 Compact Al.

\* Use PUADP1 adaptor with U dies in 46 Series.

■ The largest size for the 35 Series is 400 kcmil.

◆ For applications greater than 2000 Volts consult cable manufacturer for voltage stress relief instructions.

● Also accommodates compressed and compact conductors (except for 700 kcmil in 750 kcmil barrel).

^^ 75°C Rated

\*\*P-RT dies for use in 46 Series tools only.

\*\*\*L dies for use with 60 Ton HYPRESS™ only

**Note:** All dimensions shown are for reference only.