

### TYPE YS-A

HYLINK™



C-208

### UNINSULATED ALUMINUM COMPRESSION SPLICE

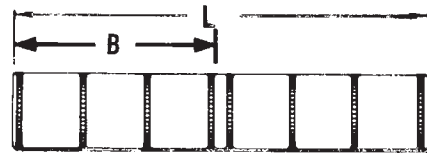
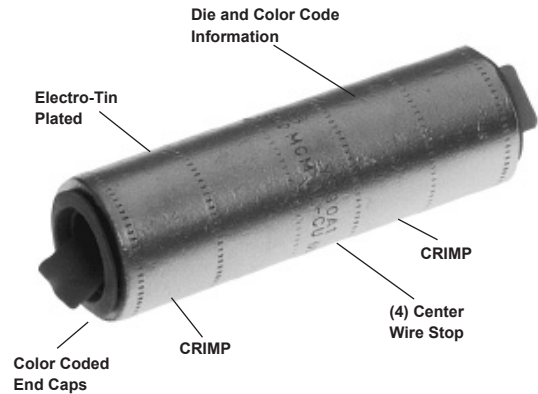
UL Listed 90° C, Up to 35 kV ♦

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 str. through 1,000 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

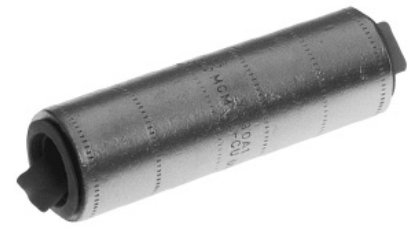
- Aluminum splices are dual rated to accommodate both copper and aluminum wire and are indicated with AL-CU on the connector
  - AL9CU indicates the terminal can accommodate aluminum and copper wire and is UL Listed 90°C, up to 35kV
  - AL7CU indicates the terminal can accommodate aluminum and copper 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 locations bands
- Factory pre-filled with PENETROX™ A13 oxide inhibitor
- Color coded end caps are factory inserted in the barrels to match the die color code; prevent foreign materials from entering the barrel
- Aluminum oxidation is not easily detected but causes resistance in a connection so it is imperative that the proper preparation takes place prior to making an aluminum-to-aluminum connection



**TYPE YS-A**

**UNINSULATED ALUMINUM COMPRESSION SPLICE**

UL Listed 90° C, Up to 35 kV ♦  
(Continued)



C-209

Catalog Number	Code • Conductor	Dimensions		Installation Tooling ▲					Wire Strip Length	
				Dieless (# of crimps/end)		Y35, ■ Y39, Y750, Y46*		▲ Die Index & Embossment		
		B	L	Mechanical HYTOOL™	Hydraulic HYPRESS™	Die Number (# of crimps per end)	Color Code			
YS12AG1	#12 Str.	0.45	1.03	Ratchet: MR8-27 (1)	—	—	—	①	—	5/8
YS10WAG1	#10 Sol.	0.50	1.12		—	—	—	①	—	5/8
YS8CA1	8 Str.	0.59	1.44	MY29-3 (1) MRC840AL (1)	Y / PAT644 (1) Y / PAT81KFT (1)	U8CABT (1)	Blue	374	374	5/8
YS6CA1	6 Str.	0.72	1.70			U6CABT (1)	Gray	346	346	3/4
YS4CA1	4 Str.	0.86	1.97	MY29-3 (1) MRC840AL (2)	Y / PAT644 (1) Y / PAT81KFT (2)	U4CABT (1)	Green	375	375	7/8
YS2CA1	2 Str.	1.09	2.44			U2CABT (1)	Pink	348	348	1-1/8
YS1CA1	1 Str.	0.90	2.05	MY29-3 (2) MRC840AL (3)	Y / PAT644 (1) Y / PAT81KFT (2)	U1CART (1)	Gold	471	471	15/16
YS25A1	1/0 Str.	1.06	2.37			U25ART (1)	Tan	296	296	1-1/16
YS26A1	2/0 str.	1.18	2.61	MY29-3 (2) MRC840AL (3)	Y / PAT644 (1) Y / PAT81KFT (2)	U26ART (2)	Olive	297	297	1-3/8
YS27A1	3/0 str.	1.31	2.88			U27ART (2)	Ruby	467	467	1-1/2
YS28A1	4/0 str.	1.40	3.06	MY29-3 (2) MRC840AL (3)	Y / PAT644 (1) Y / PAT81KFT (2)	U28ART (2)	White	298	298	1-5/8
YS29A1	250kcmil	1.46	3.18			U29ART (2)	Red	324	324	1-5/8
YS30A1	300 kcmil	1.47	3.20	—	Y / PAT644 (1) Y / PAT81KFT (2)	U30ART (2)	Blue	470	470	1-3/4
YS31A1	350 kcmil	1.89	4.04	—	Y / PAT644 (1) Y / PAT81KFT (2)	U31ART (2)	Brown	299	299	2-1/8
YS32A1	400kcmil	2.30	4.86	—	Y / PAT644 (1) Y / PAT81KFT (4)	U32ART (2)	Green	472	472	2-1/2
YS34A1	500 kcmil	2.38	5.02			U34ART (2)	Pink	300	300	2-5/8
YS36A1	600 kcmil	2.44	5.14	—	Y / PAT644 (1) Y / PAT81KFT (4)	U36ART (4)	Black	473	473	2-7/8
YS39A1	700 kcmil 750 kcmil +900 Compact Al	2.50	5.26			U39ART-2 (4)	Yellow	936	936	2-7/8
YS39AM1	700 kcmil 750 kcmil +900 Compact Al	2.63	5.58	—	Y / PAT644 (1) Y / PAT81KFT (4)	P39ART** (4)	Red	301	301	2-7/8
YS42A1	600 - 900 kcmil	2.50	5.26	—	Y / PAT644 (2)	U42ART (4)	Gray	303	303	2-7/8
YS44A1	1000 kcmil	2.84	5.94			P44ART** (4)	Brown	302	302	3
YS45A1 <sup>AA</sup>	1250 kcmil	2.84	6.21	—	—	P48PR1/ L44ART** (6)	Brown	302	302	2.88
YS46A1 <sup>AA</sup>	1500 kcmil	3.40	7.05			L46ART*** (2)	Blue	478	478	3.38
YS47A1 <sup>AA</sup>	1750 kcmil	3.99	8.31	—	—	L47ART*** (2)	White	587	587	4
YS48A1 <sup>AA</sup>	2000 kcmil	3.66	7.58			L48ART*** (2)	Red	479	479	3.63
YS483A1 <sup>AA</sup>	2250 kcmil ALUMINUM ONLY	3.66	7.58	—	—	L48ART*** (2)	Red	479	479	3.63

▲ 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 PUADP-1 adaptor with U dies in Y46 HYPRESS™.

■ The largest size for the Y35 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).

<sup>AA</sup> 75°C Rated

Note: All dimensions shown are for reference only.

**Y644HSXT DIELESS HYPRESS™ RANGE-TAKING CAPABILITIES**

The following HYLINK™ splices, when crimped with the Y644HSXT DIELESS HYPRESS™ tool, produce the range-taking capabilities in the table to the right.

Aluminum Splices					
Standard Wire Size	Expanded Wire Range	Standard Wire Size	Expanded Wire Range	Standard Wire Size	Expanded Wire Range
#6 AWG	#6 AWG	1/0 AWG	1/0 - #1 AWG	250 kcmil	250 kcmil - 1/0 AWG
#4 AWG	#4 - #6 AWG	2/0 AWG	2/0 - #1 AWG	300 kcmil	300 kcmil - 2.0 AWG
#2 AWG	#2 - #6 AWG	3/0 AWG	3/0 - #1 AWG	350 kcmil	350 kcmil - 3/0 AWG
#1 AWG	#1 - #2 AWG	4/0 AWG	4/0 - #1 AWG	400 kcmil	400 kcmil - 4/0 AWG
				500 kcmil	500 kcmil - 4/0 AWG
				600 kcmil	600 - 250 kcmil
				750 kcmil	750 - 500 kcmil