

Automatic connectors Reliable

for wires, strands and conductors



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ISO 9001
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The automatic concept

Reliable Power Products Inc. manufactures a complete line of automatic connectors for both guying and current carrying applications. These products are the safest, most efficient devices available for splicing or terminating steel guy (stay) wire and Copper, Aluminium and ACSR conductors.

The heart of the automatic connector is a set of spring-loaded jaws within a tapered tube. These jaws compress onto the wire, strand or conductor. A tempered spring initiates the compression of the jaws onto the wire. Sag, or back tension, of the wire/conductor pulls the jaws farther down the tapered tube for a secure, long-term connection rated at a minimum 90 to 95 percent of the strand or conductor's rated breaking strength.

Quality

All Reliable automatics are tested extensively during both design and production. Each automatic is individually date stamped to identify the production run. Each production lot has samples tensile tested to destruction to assure product quality.

Safety

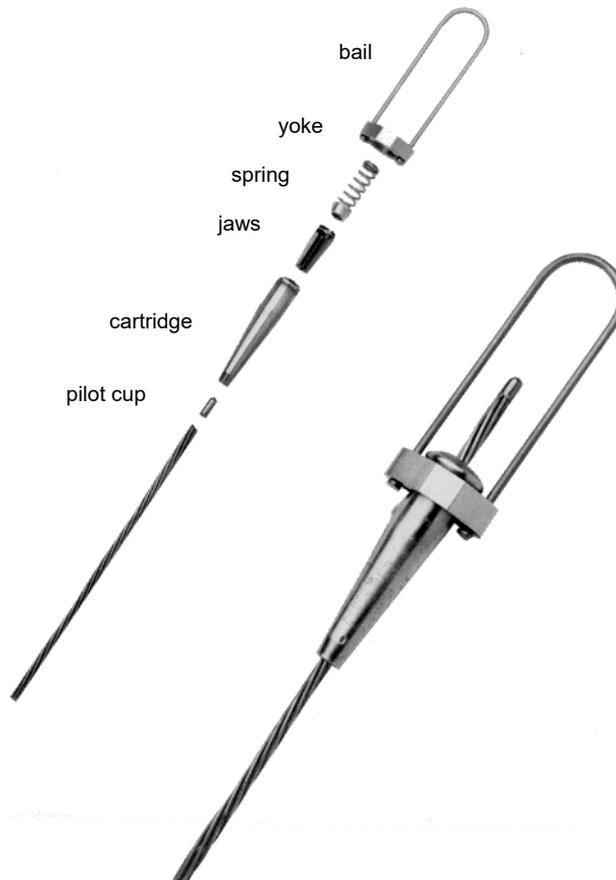
Reliable automatics have been shown to be the safest device available for splicing or terminating wire, strand or conductor. They actually minimize the potential for human error and provide a long-term connection under virtually all conditions.

Reliable automatics are extremely simple to install. In essence, they are designed for error-free application. Crews will require only minimal training to use them correctly. It is that very simplicity that makes them safe. If a lineman tries to use an improperly sized automatic, the conductor will either not fit in the nose of the automatic, or the unit's jaws will not grip on the wire.

Efficiency

Reduced installation time means fewer labor costs needed to pay for that installation. You save "automatically."

Also, they do not require any investment in the purchase or upkeep of expensive compression tools and dies.



ConductRlink and ConductRvise splices for conductive joints

These splices are available in three general types:

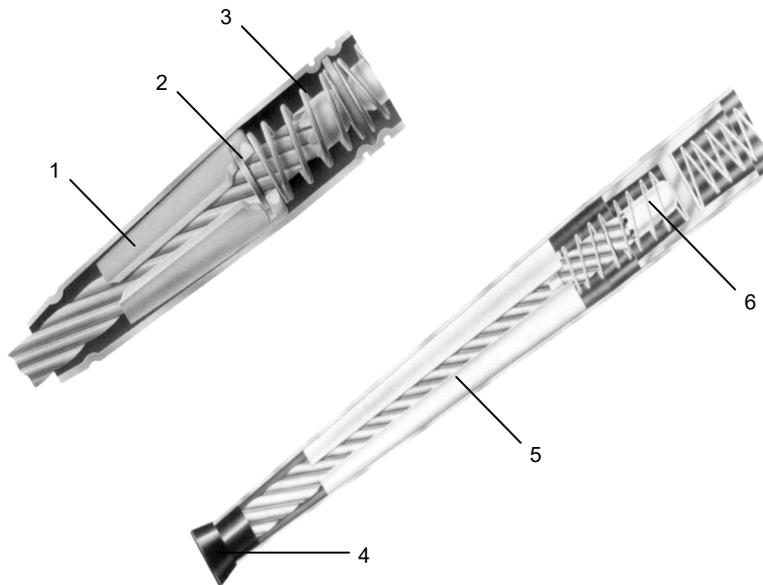
1. copper for use on copper conductors,
2. aluminium for use on aluminium conductors,
3. ACSR (AlFe) for use on Steel Reinforced Aluminium conductors or aluminium conductors.

Splices are rated to hold a minimum of 95 percent of the rated breaking strength of the appropriate conductor, utilize cold formed, heat-treated jaws of copper and aluminium alloys. They are arranged in a 3 to 6 jaw cluster.

ACSR products use a two-piece die cast jaw system. These jaws are considerably longer since they must compress the outside aluminium strands onto the steel core wire to develop the required holding strength

ConductRlink splices run significantly cooler than the spliced conductor, because of their greater surface area.

Reliable ConductRvise and ConductRlink automatic fittings undergo rigorous testing to insure their long term integrity. In addition to routine tensile testing, all designs undergo sustained load and heat cycle testing per ANSI C119.4 specification prior to production approval. In addition, designs are tested to 25 million cycle vibrations.



1 – Jaws

Cold formed, heat-treated and plated Aluminium or Copper alloy jaws arranged in a 3 to 6 jaw cluster. Their purpose is to spread compression forces evenly over the conductor.

2 – Jaw washer

Holds the jaws together in a uniform cluster.

3 – Spring

Initiates the compression of the jaws onto the conductor.

4 – Strand guide

Helps guide the conductor into the Pilot Cup of the ACSR and larger Aluminium ConductRvises and ConductRlinks. It is ideal for “hot stick” installations. Colour coded strand guides make choosing the correct fitting quick and easy.

5 – ACSR jaws

Two-piece, die cast aluminium alloy jaws aligned via jaw pin mating slots. The longer jaws allow compression forces to proceed from the outer aluminium strands to the centre steel core wire.

6 – Pilot cup

Covers the end of the conductor, keeping all strands in lay as they pass through the jaw system. Also keeps the jaws from grasping the conductor until the Pilot Cup exits the back of the jaw system. Thus, the automatic will hold the conductor only when insertion is complete.

Tapered aluminium and copper housing

Increases the compression as tension is added. Aluminium alloys are used in aluminium and ACSR splices to improve conductivity and minimize bulk resistance. Copper alloys are used in copper splices.

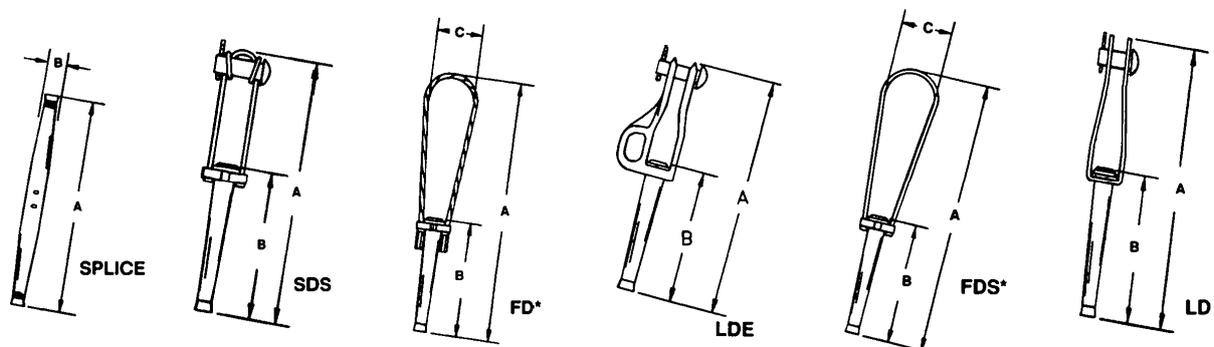
Splices for ACSR

Type	Colour	ACSR diameter	Dimensions				
			A	B	C		
7651 SPLICE	orange	5,82 - 6,73 conductor 25/1	210,3	23,4	-		
7651 SDS			261,4	132,8	-		
7651 LD			284,2	132,8	-		
7651 LDE			270,0	132,8	-		
7651 FD			324,9	132,8	88,9		
7651 FDS			305,8	132,8	57,2		
7652 SPLICE	red	5,92 – 8,94	288,8	25,7	-		
7652 AP SPLICE *	red / orange	5,8 - 8,64 conductor 25/1 35/1	301,0	25,6	-		
7652 SDS			304,8	161,8	-		
7652 LD			295,4	161,8	-		
7652 LDE			308,0	161,8	-		
7652 FD			358,8	161,8	88,9		
7652 FDS			327,0	161,8	57,2		
7653 SPLICE *	yellow	9,00 - 10,80 conductor 50/1	366,0	30,4	-		
7653 DC			381,0	215,1	-		
7653 LD			379,0	215,1	-		
7653 FD			388,4	215,1	88,9		
7653 FDS			461,5	215,1	57,2		
7654 SPLICE			grey	10,51 -12,06	421,4	32,3	-
7654 AP SPLICE *	grey / yellow	9,27 -12,06 conductor 50/1 70/11	385,0	32,2	-		
7654 DC			387,4	221,0	-		
7654 LD			384,8	221,0	-		
7654 FD			394,2	221,0	88,9		
7654 FDS			467,4	221,0	57,2		
7656 SPLICE			pink	13,25 – 14,86	455,2	39,6	-
7656 AP SPLICE *	pink / black	12,75 – 14,86 conductor 95/1 100/25	410,0	39,6	-		
7656 SDC			520,7	260,4	-		
7656 FD			447,5	260,4	88,9		
7657 FDS			596,9	279,4	57,2		
7658 AP SPLICE *			green / brown	14,73 – 18,38 conductor 110/22 120/7	530,0	47,2	-
7658 SDC					605,3	335,3	-
7658 FD	660,4	335,3			88,9		
7658 FDS	647,7	335,3			57,2		
7659 SPLICE	light blue	18,79 - 21,76 conductor 185/6 - 240/39			574,0	52,3	-

The dimension „A“ can differ in the range of +/- 5% comparing to dimensions in this catalogue. This tolerance does not affect the right function of the splice.

Tension representing a minimum of 15% of the rated strength of the conductor is recommended to assure a permanent low resistance electric connection. Maximal tensile stress 55,6 kN.

Yokes could be coated with a neoprene bail (black).



All clevis pins as shown are 15,75 mm in diameter.