



For crimping Magnet Wire in Pigtail AMPLIVAR Splices (up to 3 wires in 1 splice) and Direct Connect AMPLIVAR Contact Terminals.

FAST FACTS

- CE approved (Out of scope RoHS)
- No need to strip magnet wire insulation
- Crimps up to 3 wires in 1 splice
- APT 5E with:
 - Large manual crimp height adjustment knob; allows for quicker changeover and tool change adjustments
- APT 5A with:
 - Auto crimp height adjustment
 - Crimp Quality Monitoring (CQM)
 - Visual alarms alert the operator of out-of-spec crimps
 - Programmable sequencing of different crimp-height settings
 - USB output for networking or exporting process control and crimp quality traceability data
- Optional Wire Stuffer:
 - Feeds additional magnet wire to add CMA to the wire combination. Useful for extending the range of a terminal to do lower CMA applications
- Optional Infinite Splice:
 - Selective shearing of the terminal carrier strip to allow bussed splice connections.
 - Allows wire combinations with more than 3 magnet wires

AMPLIVAR PRODUCT TERMINATORS (APT) 5A & 5E with optional Infinite Splice

and Wire Stuffer

Our APT machines offer a fast, efficient system with no need to strip magnet wire insulation. Simply place the wires in the target area and depress the foot switch. The machine automatically shears the AMPLIVAR Splice or AMPLIVAR Direct Connect contact from the strip, crimps it, shears off excess wire, and advances the next splice or contact into position.

APTs are available in two versions:

• **APT 5E** - the basic machine with a large manual crimp height adjustment knob, that helps provide quicker changeover and tool change adjustments.

Or add more control using the

 APT 5A - with automatic crimp height adjustment controlled by the Crimp Quality Monitor (CQM). Using CQM, the APT 5A provides 100% inspection and automatic adjustment of crimp height. If a questionable crimp is detected, visual and audible alarms alert the operator.

Sequencing

For operations with multiple wire sizes, the APT 5A provides programmable sequencing of different crimp-height settings. It can store up to 2,000 programs of 7 different settings each. The maximum time to auto-adjust between programmed crimp heights is 2 seconds.

AMPLIVAR Product Terminators 5A and 5E

for Magnet Wire Pigtail Splice and Contact Applications



Wire Stuffer

Wire stuffer assembly 2161635-1 provides feed from a magnet wire reel to increase the CMA of a crimp. This allows the CMA range of a given terminal to be extended to handle smaller

wire combinations by adding a filler wire. This can let a number of crimps to all be done with one terminal PN which ordinarily would have to be split between two terminals to handle the CMA range.



Infinite Splice

Infinite Splice models provide a toggle switch for the splice cut-off shear. This enables ganging of multiple splices like pictured below in almost infinite combinations.

With infinite splice, more than 3 magnet wires can be connected by bussing multiple splices together through the terminal carrier strip. Each crimp can have up to 3 magnet wires.



Infinite Splice Retrofit Kit

A retrofit kit is available for the APT 5A and 5E models. Please visit **www.te.com/InfiniteSplice** to learn more.

P/N	Description
1-2326143-0	Retrofit kit (TE Terminal 62306)
1-2326143-2	Retrofit kit (TE Terminal 62304)
1-2326143-5	Retrofit kit (TE Terminal 62308)

BASE MACHINE OFFERINGS

P/N	Description
x-2161800-x	APT 5A Terminator (AMPLIVAR SPLICES)
x-2161900-x	APT 5E Terminator (AMPLIVAR SPLICES)
x-2161850-x	APT 5A Terminator (Direct Connect Terminals)
x-2161950-x	APT 5E Terminator (Direct Connect Terminals)
1-2326135-0	APT 5A Terminator w/Infinite Splice (TE Terminal 62306)
1-2326135-2	APT 5A Terminator w/Infinite Splice (TE Terminal 62304)
1-2326135-5	APT 5A Terminator w/Infinite Splice (TE Terminal 62308)
1-2326145-0	APT 5E Terminator w/Infinite Splice (TE Terminal 62306)
1-2326145-2	APT 5E Terminator w/Infinite Splice (TE Terminal 62304)
1-2326145-5	APT 5E Terminator w/Infinite Splice (TE Terminal 62308)

*Multiple configurations are available. See chart on page 3 for the complete offering.

Technical Data:

- Weight: approx. 68 kg with CQM
- Width: 965 mm with CQM and
- Product Reel
- Depth: 890 mm
- Height: 356 mm
- Electrical: 120/240 VAC, 50/60 Hz, .5/.25 A, 1Ø
- Air: 5,5-7,5 bar
- Crimp Height Adjust in .0005 " [0.013 mm] increments over .064" range

Termination Process:

- Magnet wire and lead wire are placed in the terminal barrel being in the crimping position
- Operator depresses the foot switch
- Terminator automatically
 - shears terminal from its strip
 - crimps the terminal onto the wire
 - shears off the excess wire
 - advances the next terminal into the crimping position

Remarks:

- Two or three wires may be joined in one splice
- Terminator designed for combinations of magnet wire and lead wire (stranded, solid or fused stranded)

changes

- Each terminal has specific tooling required
- For the correct tooling selection, please contact our specialists

AMPLIVAR Product Terminators 5A and 5E

for Magnet Wire Pigtail Splice and Contact Applications

igtail-type Splice Base Number	AWG [mm²]	Wire Range	СМА	Stock Thickness	Crimp Width	APT 5A -2161800-	APT 5E -2161900-
62000	22-15.5 0.38-1.54	.028055 .70-1.40	600-3000	0.02 0.51	.110[2.79]	1-[]-2	1-[]-2
62001	15.5-12 1.54-3.46	.055083 1.40-2.10	3000-7000	0.02 0.51	.140[3.56]	[]-7	[]-7
62001	15.5-12 1.54-3.46	.055083 1.40-2.10	3000-7000	0.02 0.51	.180[4.57]	[]-6	[]-6
62201	15.5-12 1.54-3.46	.055083 1.40-2.10	3000-7000	0.02 0.51	.140[3.56]	[]-8	[]-8
62002	12-9 3.46-6.38	.083112 2.10-2.85	7000-13,000	0.025 0.64	.180[4.57]	[]-3	[]-3
62040	18.5-13.5 0.80-2.54	0.39071 1.00-1.80	1500-5000	0.02 0.51	110[2.79	1-[]-1	1-[]-1
62157	22-15.5 0.38-1.54	.028055 0.70-1.40	600-3000	0.02 0.51	.110[2.79]	1-[]-2	1-[]-2
62200	22-15.5 0.38-1.54	.028055 0.70-1.40	600-3000	0.02 0.51	.110[2.79]	1-[]-2	1-[]-2
62295	12-10 2.10-6.0	.085110 2.10-2.85	7000-12,000	0.025 0.64	.250[6.35]	[]-1	[]-1
62303*	24-18.5 0.26-0.80	.020039 0.55-1.00	400-1500	0.016 0.41	0.080[2.03]	1-[]-3	1-[]-3
62304*	22-15.5 0.38-1.54	.028055 0.70-1.40	600-3000	0.02 0.51	.110[2.79]	1-[]-2	1-[]-2
62305*	22-15.5 0.38-1.54	0.28055 0.70-1.40	600-3000	0.016 0.41	.110[2.79]	1-[]-2	1-[]-2
62306*	18.5-13.5 0.80-2.54	.039071 1.00-1.80	1500-5000	0.02 0.51	.140[3.56]	1-[]-0	1-[]-0
62306*	18.5-13.5 0.80-2.54	.039071 1.00-1.80	1500-5000	0.02 0.51	.110[2.79]	1-[]-1	1-[]-1
62307*	18.5-13.5 0.80-2.54	039071 1.00-1.80	1500-5000	0.016 0.41	.110[2.79]	1-[]-1	1-[]-1
62308*	15.5-12 1.54-3.46	.055083 1.40-2.10	3000-7000	0.02 0.51	.140[3.56]	[]-9	[]-9
62308*	15.5-12 1.54-3.46	055083 1.40-2.10	3000-7000	0.02 0.51	.180[4.57]	1-[]-5	1-[]-5
62309*	13.5-10 2.54-4.90	.071098 1.80-2.50	5000-10,000	0.025 0.64	.220[5.59]	1-[]-4	1-[]-4
62309*	13.5-10 2.54-4.90	.071098 1.80-2.50	5000-10,000	0.025 0.64	.180[4.57]	[]-5	[]-5
62310*	12-9 3.46-6.38	.083112 2.10-2.85	7000-13,000	0.025 0.64	.220[5.59]	[]-2	[]-2
62310*	12-9 3.46-6.38	.083112 2.10-2.85	7000-13,000	0.025 0.64	.180[4.57]	[]-4	[]-4

*Recommended part number

The table above is for standard APT 5A and 5E models only and does not include Infinite Splice models. CMA capacity can vary greatly between multiple wire combinations. Please consult a TE representative to determine the APT Infinite Splice Terminator that is right for your specific requirements.

Additionally, the CMA capacity for a given part number varies depending upon whether it is used in a single splice or an infinite splice configuration. Consult the customer drawings for 62304, 62306 and 62308 to review the appropriate CMA for either usage.



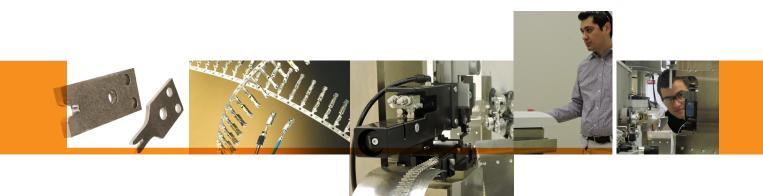
Let's Connect

Learn more about our comprehensive line of tooling solutions at Tooling.te.com. To find the right TE tooling for your needs, call us at 717-810-2082 or email toolingSales@te.com.



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Waste Not. Want Not.

Whether it's time or scrap, in manufacturing everyone knows that waste costs money. With our on-site certification and consultation services, we can help you:



Time is Money.

In manufacturing downtime can be expensive. That's why TE is constantly working to improve product availability and delivery rates. With a strong global footprint, short lead times and a strong distribution channel, TE has the equipment and the accessories to keep production on-line.

- Reduce downtime
- Reduce scrap
- Maintain crimp quality
- Improve manufacturing efficiency

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