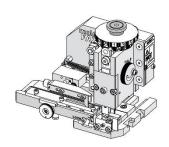
Order Number 213069-1700







FEATURES

- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- Quick setup time; plus, the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of 0.015mm (.0006") for conductor crimp height and 0.025mm (.001") for insulation height
- Independent adjustment rings allow users to guickly adjust the conductor or insulation crimp height without affecting each other
- Directly adapts to most automatic wire processing machines

SCOPE

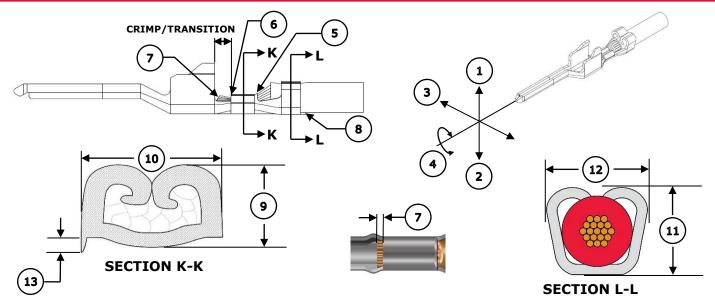
Products: Milli-Grid Crimp Terminals, 24 AWG UL1061 Wire and 26-30 AWG UL1007 Wire.

| Terminal Series | Terminal Order No. | Wire | | Insulation Diameter | | Strip Length | |
|-----------------|--|-----------|-----------|---------------------|---------|--------------|---------|
| No. | | Wire Type | Wire Size | mm | In. | mm | In. |
| 151087 | 151087-8101 151087-8201 151087-8301 151087-8401 | UL1007 | 30 AWG | 0.80-1.40 | .031055 | 1.30-1.80 | .051071 |
| | | UL1007 | 28 AWG | 0.80-1.40 | .031055 | 1.30-1.80 | .051071 |
| | | UL1007 | 26 AWG | 0.80-1.40 | .031055 | 1.30-1.80 | .051071 |
| | | UL1061 | 24 AWG | 0.80-1.40 | .031055 | 1.30-1.80 | .051071 |

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DEFINITION OF TERMS



CRIMP SPECIFICATIONS

The following crimp specifications are based on document CS-151087-0001 Rev. A:

| Feature | Requirement | | | | | | | |
|---------------------------|------------------------|-----------|------------------|-------------|-----------------|-------------|--|--|
| 1. Bend Up | 4° Max | | | | | | | |
| 2. Bend Down | 3° Max | | | | | | | |
| 3. Twist | 3° Max | | | | | | | |
| 4. Roll | 4° Max | | | | | | | |
| 5. Bell Mouth Rear | 0.05-0.35mm (.002014") | | | | | | | |
| 6. Bell Mouth Front | Not Applicable | | | | | | | |
| 7. Conductor Brush | 0.00-0.50mm (.000020") | | | | | | | |
| 8. Cut-Off Tab | 0.15mm (.006") Max | | | | | | | |
| | Wire Type | Wire Size | 9. Crimp Height | | 10. Crimp Width | | | |
| | UL1007 | 30 AWG | 0.53-0.58mm | .021023 in. | 1.00-1.10mm | .039043 in. | | |
| Conductor Crimp | UL1007 | 28 AWG | 0.56-0.61mm | .022024 in. | 1.00-1.10mm | .039043 in. | | |
| | UL1007 | 26 AWG | 0.59-0.64mm | .023025 in. | 1.00-1.10mm | .039043 in. | | |
| | UL1061 | 24 AWG | 0.60-0.65mm | .024026 in. | 1.00-1.10mm | .039043 in. | | |
| | Wire Type | Wire Size | 11. Crimp Height | | 12. Crimp Width | | | |
| T | UL1007 | 30 AWG | 1.20-1.40mm | .047055 in. | 1.35-1.51mm | .053059 in. | | |
| Insulation Crimp | UL1007 | 28 AWG | 1.20-1.40mm | .047055 in. | 1.38-1.54mm | .054061 in. | | |
| | UL1007 | 26 AWG | 1.25-1.45mm | .049057 in. | 1.39-1.55mm | .055061 in. | | |
| | UL1061 | 24 AWG | 1.25-1.45mm | .049057 in. | 1.39-1.55mm | .055061 in. | | |
| | Wire Type | Wire Size | Minimum Force | | | | | |
| | UL1007 | 30 AWG | 4.9 N | 1.1 lb. | | | | |
| Pull Force | UL1007 | 28 AWG | 9.8 N | 2.2 lb. | | | | |
| | UL1007 | 26 AWG | 19.6 N | 4.4 lb. | | | | |
| | UL1061 | 24 AWG | 29.4 N | 6.6 lb. | | | | |
| 13. Conductor Anvil Flash | 0.10mm (.004") Max | | | | | | | |

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NOTES

General Notes

- 1. Molex recommends that an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by hand cycling the press and applicator before crimping under power. Check that all screws are tight.
- 3. Slugs, terminals, dirt and oil should be kept clear of the work area.
- 4. Wear safety glasses at all times.
- 5. For recommended maintenance, refer to the FA2 manual (TM-638080200).
- 6. Molex recommends crimping stranded copper wire only.

WARNINGS

CAUTION: This applicator must be installed in a press with a standard shut height of 135.80mm (5.346"). Tooling damage could result at a lower setting.

CAUTION: To prevent injury, never operate this applicator without the guards supplied with the press or wire-processing machine in place. Reference the press or wire processing manufacturer's instruction manual.

CAUTION: Molex tooling crimp specifications are valid only when used with Molex terminals and tooling manufactured by Molex and sold by Molex or authorized distributors ("Molex Tooling"). When using tooling other than Molex Tooling with Molex-specific connector systems listed in our ATS documents, the Molex Tooling qualification does not apply, and the responsibility for full qualification of the connector system is that of the customer. Molex accepts no liability for connector performance or tooling support where tooling other than Molex Tooling is used or where Molex Tooling is modified.

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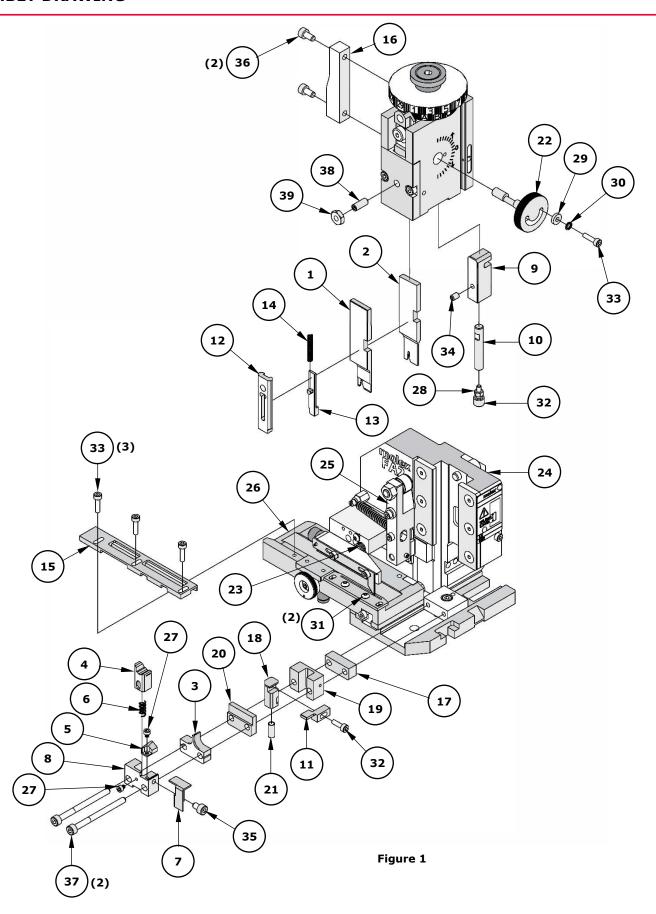
PARTS LIST

| | FA2 Applicator 213069-1700 | | | | | | | |
|---------------------------|----------------------------|-----------------|-----------------------------------|----------|--|--|--|--|
| Item | Order No. | Engineering No. | Description | Quantity | | | | |
| Perishable Tooling | | | | | | | | |
| | 213069-1770 | 213069-1770 | Tool Kit (All "Y" Items) | Ref | | | | |
| 1 | 200220-1403 | 200220-1403 | Insulation Punch | 1 Y | | | | |
| 2 | 200216-1003 | 200216-1003 | Conductor Punch | 1 Y | | | | |
| 3 | 200217-1204 | 200217-1204 | Combination Anvil | 1 Y | | | | |
| 4 | 63443-0136 | 63443-0136 | Cut-Off Plunger | 1 Y | | | | |
| 5 | 63443-0119 | 63443-0119 | Cutting Insert | 1 Y | | | | |
| Non-Perishable Components | | | | | | | | |
| 6 | 11-24-1067 | 4996-4 | Cut-Off Plunger Spring | 1 | | | | |
| 7 | 63443-0117 | 63443-0117 | Front Scrap Chute | 1 | | | | |
| 8 | 63443-0118 | 63443-0118 | Front Plunger Retainer | 1 | | | | |
| 9 | 63808-0220 | 63808-0220 | Nose Hold Down Block | 1 | | | | |
| 10 | 63600-5775 | 63600-5775 | Nose Hold Down Shank | 1 | | | | |
| 11 | 63443-7750 | 63443-7750 | Nose Hold Down | 1 | | | | |
| 12 | 63443-2806 | 63443-2806 | Front Plunger Striker | 1 | | | | |
| 13 | 63443-2905 | 63443-2905 | Wire Hold Down Plunger | 1 | | | | |
| 14 | 63600-0021 | 63600-0021 | Wire Hold Down Spring | 1 | | | | |
| 15 | 63443-4720 | 63443-4720 | Terminal Guide | 1 | | | | |
| 16 | 63443-4405 | 63443-4405 | Feed Cam | 1 | | | | |
| 17 | 200213-7516 | 200213-7516 | Anvil Mount | 1 | | | | |
| 18 | 63443-7315 | 63443-7315 | Terminal Hold Down Plunger | 1 | | | | |
| 19 | 63443-7323 | 63443-7323 | Terminal Hold Down Retainer | 1 | | | | |
| 20 | 63443-7702 | 63443-7702 | Terminal Hold Down Retainer Plate | 1 | | | | |
| 21 | 63700-0992 | 63700-0992 | Terminal Hold Down Plunger Spring | 1 | | | | |
| 22 | 63808-0229 | 63808-0229 | Bend Adjust Dial | 1 | | | | |
| 23 | 203045-0030 | 203045-0030 | Torsion Spring | 1 | | | | |
| | 200010 0000 | | Frame | | | | | |
| 24 | 63808-0200 | 63808-0200 | Applicator Core | 1 | | | | |
| 25 | 63808-0197 | 63808-0197 | Mechanical Feed Assembly | 1 | | | | |
| 26 | 63808-0191 | 63808-0191 | Track Assembly | 1 | | | | |
| | Hardware | | | | | | | |
| 27 | _ | _ | M2.5 x 3 SHCS | 2* | | | | |
| 28 | _ | _ | M3 Hex Nut | 1* | | | | |
| 29 | _ | _ | M3 Flat Washer Hard | 1* | | | | |
| 30 | _ | _ | M3 Inner Tooth Lock Washer | 1* | | | | |
| 31 | _ | _ | M3 x 6 BHCS | 2* | | | | |
| 32 | _ | _ | M3 x 10 SHCS | 2* | | | | |
| 33 | _ | _ | M3 x 12 SHCS | 4* | | | | |
| 34 | _ | _ | M4 x 6 SSS | 1* | | | | |
| 35 | _ | _ | M4 x 6 SHCS | 1* | | | | |
| 36 | _ | _ | M4 x 8 SHCS | 2* | | | | |
| 37 | _ | _ | M4 x 50 SHCS | 2* | | | | |
| 38 | _ | _ | #10-32 UNF x .25" SSS | 1* | | | | |
| 39 | _ | _ | #10-32 Hex Jam Nut | 1* | | | | |
| 23 | _ | _ | # 10-32 HEX Jaili Nut | Т. | | | | |

^{*}Fastener parts can be purchased through most industrial suppliers by using the description in the table above.

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ASSEMBLY DRAWING



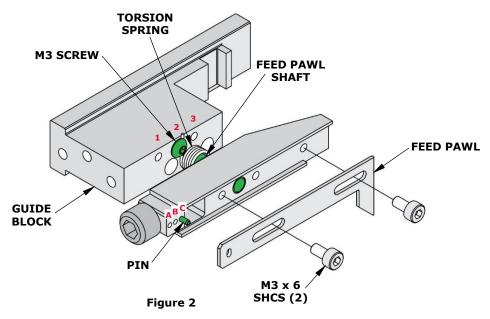
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FACTORY SETTINGS

Feed Pawl Assembly

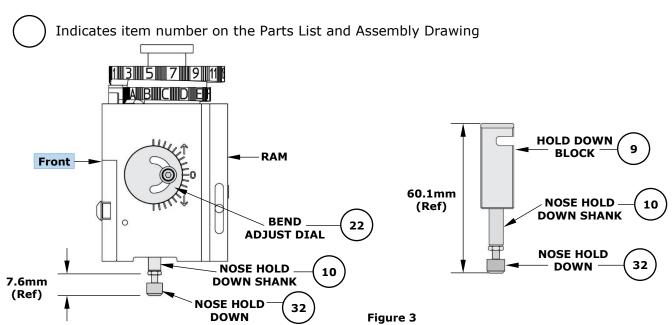
The FA2 applicator number 213069-1700 ships with the following factory settings. See Figure 2:

- The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 2.
- The pin is in position C.



Note: Each applicator is configured and tested by Molex prior to shipping, and the above settings were used to produce the included sample crimps.

Third Dial/Ram Assembly

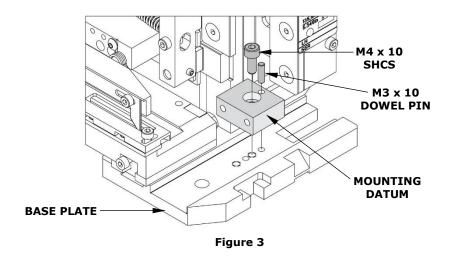


Note: The above dimensions were measured during setup and are included as a reference only. Additional adjustments may be required before crimping for production.

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Mounting Datum Location

This applicator was assembled and tested by Molex with the mounting datum in the location shown in Figure 3. Do not remove the mounting datum.



Application Tooling Support

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