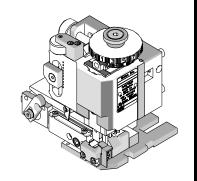


FineAdjust Applicator **Specification Sheet** Part No. 63900-1800



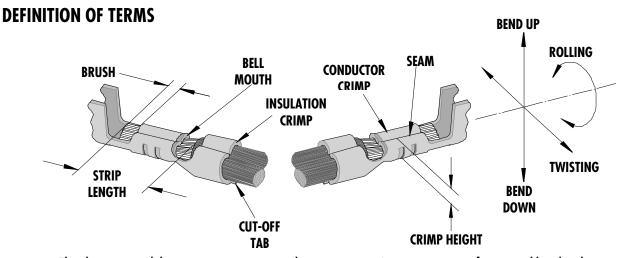
FEATURES

- Directly adapts to most automatic wire processing machines
- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up 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 .015mm (.0006") for conductor crimp height and .063mm (.0025") for insulation height
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other

SCOPE

Products: 1.78mm (.070") Tab Female Crimp Terminals, 14-20 AWG.

| Torminal Carios No. | Terminal Order No. | Wire Size | | √ Insulatio | n Diameter | Strip Length | | |
|---|--------------------|-----------|-----------|---------------------|------------|--------------|---------|--|
| Terminar Jeries No. | Terminui Order No. | AWG | mm² | mm | ln. | mm | ln. | |
| 35028 | 35028-1111 | 14-20 | 2.00-0.50 | 1.60-3.65 | .063144 | 4.20-5.00 | .165197 | |
| ✓ This Applicator provides optimum A-620 Class 2 crimps with insulation 0.D. range of 2.55-3.65 mm. | | | | | | | | |



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

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CRIMP SPECIFICATION

| Terminal Series No. | Bell n | nouth | Cut-off Tal | Maximum | Conductor Brush | | |
|---------------------|-----------|---------|-------------|---------|-----------------|---------|--|
| terminai Series No. | Mm | ln. | mm | ln. | mm | ln. | |
| 35028 | 0.20-0.50 | .008020 | 0.20 | .008 | 0.00-1.00 | 0.00039 | |

| | Bend up Bend down | | Twist Roll | | Punch Width mm (Ref) | | | | Seam |
|---------------------|-------------------|------------|------------|------|----------------------|------|-------------------|------|--|
| Terminal Series No. | Dellu up 1 | eliu uowii | I WISI | KUII | Conductor | | ductor Insulation | | |
| | Degree | | Degree | | mm | ln | mm | ln | Seam shall not be open |
| 35028 | 3 | 3 | 3 | 5 | 2.40 | .094 | 3.40 | .134 | and no wire allowed out of the crimping area |

After crimping, the conductor profile should measure the following.

| | \M:== | C: | Conductor | | | | | |
|---------------------|-------|------|-----------|---------|-------------------|---------|--|--|
| Terminal Series No. | Wire | Size | Crimp | Height | Crimp Width (Ref) | | | |
| | AWG | mm² | mm | ln. | mm | ln. | | |
| 35028 | 14 | 2.00 | 1.47-1.56 | .058061 | 2.40-2.55 | .094100 | | |
| | 16 | 1.30 | 1.40-1.48 | .055058 | 2.40-2.55 | .094100 | | |
| | 18 | 0.80 | 1.33-1.40 | .052055 | 2.40-2.55 | .094100 | | |
| | 20 | 0.50 | 1.25-1.32 | .049051 | 2.40-2.55 | .094100 | | |

| | Wire Size | | | Insulati | Pull Force Minimum | | | |
|---------------------|-----------|------|-------------------|----------|--------------------|---------|---------------------|------|
| Terminal Series No. | wire | Size | Crimp Height Max. | | Crimp Width | | Full Force Millimum | |
| | AWG | mm² | mm | ln. | mm | ln. | N | Lb. |
| 35028 | 14 | 2.00 | 4.10 | .161 | 3.50-3.70 | .138146 | 146.6 | 33.0 |
| | 16 | 1.30 | 3.85 | .152 | 3.50-3.70 | .138146 | 127.1 | 28.6 |
| | 18 | 0.80 | 3.70 | .146 | 3.50-3.70 | .138146 | 107.5 | 24.2 |
| | 20 | 0.50 | 3.65 | .144 | 3.50-3.70 | .138146 | 58.6 | 13.2 |

Pull Force should be measured with no influence from the insulation crimp.

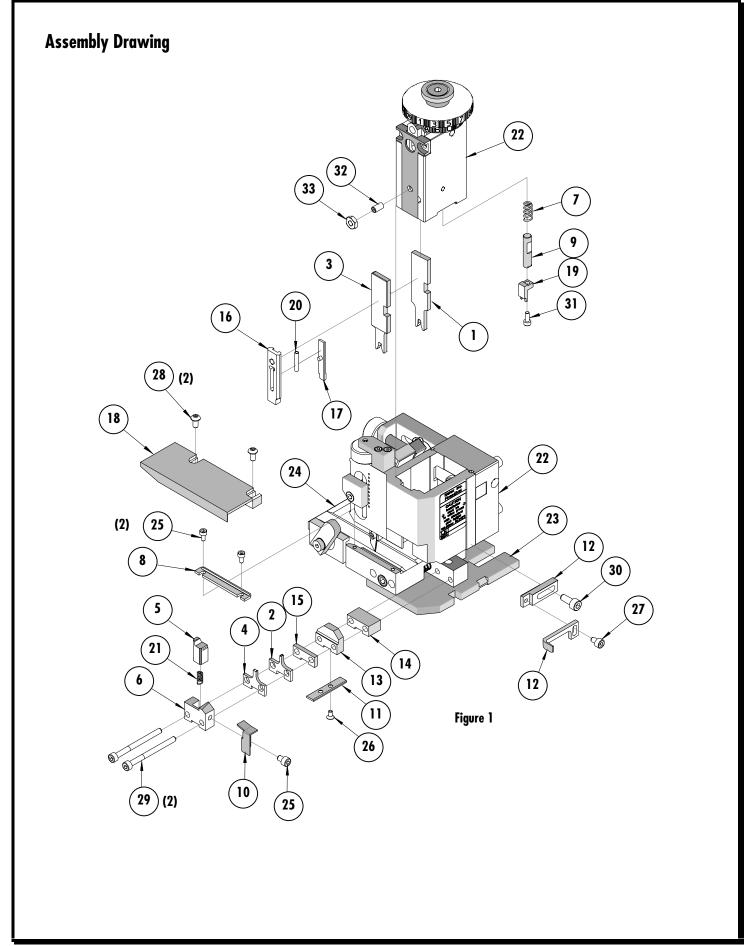
The above specifications are guidelines to an optimum crimp.

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PARTS LIST

| | FineAdjust Applicator 63900-1800 | | | | | | | | | | |
|------|--|--------------|-----------------------------------|-----|--|--|--|--|--|--|--|
| Item | Order No Engineering No. Description | | | | | | | | | | |
| | Perishable Tooling | | | | | | | | | | |
| | 63900-1870 | 63900-1870 | Tool Kit (All "Y" Items) | REF | | | | | | | |
| 1 | 63444-2425 | 63444-2425 | Conductor Punch | 1 Y | | | | | | | |
| 2 | 63445-2443 | 63445-2443 | Conductor Anvil | 1 Y | | | | | | | |
| 3 | 63446-3410 | 63446-3410 | Insulation Punch | 1 Y | | | | | | | |
| 4 | 63445-3423 | 63445-3423 | Insulation Anvil | 1 Y | | | | | | | |
| 5 | 63443-0035 | 63443-0035 | Front Cut-Off Plunger | 1 Y | | | | | | | |
| 6 | 63443-0036 | 63443-0036 | Front Plunger Retainer | 1 Y | | | | | | | |
| | | Other Compor | nents(REF 001850) | | | | | | | | |
| 7 | 11-17-0022 | 1739-21 | Hold Down Spring | 1 | | | | | | | |
| 8 | 11-18-4083 | 60707-8 | Feed Guide | 1 | | | | | | | |
| 9 | 11-24-1149 | 4996-37 | Shank | 1 | | | | | | | |
| 10 | 63443-0009 | 63443-0009 | Front Scrap Chute | 1 | | | | | | | |
| 11 | 63443-0024 | 63443-0024 | Key | 1 | | | | | | | |
| 12 | 63443-0090 | 63443-0090 | Wire Stop | 1 | | | | | | | |
| 13 | 63443-1719 | 63443-1719 | 18.9mm Height Spacer | 1 | | | | | | | |
| 14 | 63443-2214 | 63443-2214 | 14.0mm Coarse Spacer | 1 | | | | | | | |
| 15 | 63443-2317 | 63443-2317 | 3.85mm Fine Spacer | 1 | | | | | | | |
| 16 | 63443-2801 | 63443-2801 | Front Plunger Striker | 1 | | | | | | | |
| 17 | 63443-2911 | 63443-2911 | Wire Hold Down Plunger | 1 | | | | | | | |
| 18 | 63443-6122 | 63443-6122 | Rear Cover | 1 | | | | | | | |
| 19 | 63443-7003 | 63443-7003 | Terminal Hold Down | 1 | | | | | | | |
| 20 | 63600-0021 | 63600-0021 | Wire Hold Down Spring | 1 | | | | | | | |
| 21 | 63700-0539 | 63700-0539 | Cut-Off Plunger Spring | 1 | | | | | | | |
| | | | Frame | | | | | | | | |
| 22 | 63800-4901 | 63800-4901 | Тор | 1 | | | | | | | |
| 23 | 63801-3281 | 63801-3281 | Base | 1 | | | | | | | |
| 24 | 63801-4650 | 63801-4650 | Track | 1 | | | | | | | |
| | | Ho | ırdware | | | | | | | | |
| 25 | N/A | N/A | M3 by 6 Long SHCS | 2** | | | | | | | |
| 26 | N/A | N/A | M3 by 6 Long FHCS |]** | | | | | | | |
| 27 | N/A | N/A | M4 by 6 Long SHCS | 2** | | | | | | | |
| 28 | N/A | N/A | M4 by 12 Long BHCS | 2** | | | | | | | |
| 29 | N/A | N/A | M4 by 50 Long SHCS | 2** | | | | | | | |
| 30 | N/A | N/A | M5 by 12 Lg SHCS |]** | | | | | | | |
| 31 | N/A | N/A | #5-40 by 3/8"Long SHCS |]** | | | | | | | |
| 32 | N/A | N/A | #10-32 by 3/8"Long Flat Point SSS |]** | | | | | | | |
| 33 | N/A | N/A | #10-32 Hex Jam Nut |]** | | | | | | | |
| | ** Available from an industrial supply company such as MSC (1-800-645-7270). | | | | | | | | | | |

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NOTES

- Molex recommends an extra perishable tooling kit be maintained at your facility.
- Verify tooling alignment by manually cycling the press and Applicator before crimping under power. Check that all screws are tight.
- Slugs, Terminals, Dirt and Oil should be kept clear of work area.
- Wear safety glasses at all times.
- 5. For recommended maintenance refer to the FineAdjust Manual.

CAUTION: This applicator should only be used in a press with a shut height of 135.8mm (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 crimp specifications are valid only when used with Molex terminals, applicators and tooling.

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