TECHNICAL DATA Press-Fit Insulated Terminals

Press-Fit Terminals have outstanding electrical, mechanical, thermal and chemical properties made possible through the use of uncontaminated ptfe resin - long known for its exceptional inherent physical properties - as well as close fabrication control. The highest production standards are assured because quality control at ITT Sealectro is based on United Kingdom Ministry specifications and methods and these inspection procedures are carried on from receipt of the ptfe right down to the assembled terminals.

Characteristics of ptfe

Electrical Properties

Volume Resistivity

(50% RH, 23°C) 10¹⁸ohm/cm

Dielectric Constant

(60 Hz to 10⁶ Hz) 2.0-2.2 Dielectric Strength (volts/mil) 400-450

Dissipation (power) Factor

(60 Hz to 10⁶Hz) 0.0002
Corona Resistance No tracking (see ratings in tables) or carbonizing

Capacitance

(see ratings in tables) Very low

Mechanical Properties

Tensile Strength 1500-2500 psi

(105 kgf/cm² - 175 kgf/cm²)

Elongation 75-150%

Modulus of Elasticity 50000-55000 psi

(3500 kgf/cm² - 3850 kgf/cm²)

Chemical Properties

Resistant to all acids and alkalis of all concentrations, as well as to all common solvents, fungus and rot.

Water absorbtion [24 hour immersion 1/8" (3.175)

thickness] 0.01% Burning Rate None

Effect of Sunlight, Ultra-violet

and Infra-red light
Temperature Range
-100°C to
(not affected by soldering
operations or cryogenic
environs)

None
-100°C to
+250°C
(-148°F to
+482°F)

Testing Data

Capacitance and voltage measured with terminals installed in chassis permitting 0.040" (1.016) protrusion of the ptfe bushing but not more than 0.050" (1.27) thick.

Note: While the above values are typical of the materials used, they should not be quoted on users specifications or drawings of ITT Sealectro Insulated Terminals

Plating

Standard plating code for the lug portion of each terminal is given in the 13th & 14th digits of the part number.

- Gold flash 0.000005" (0.13 micron) min. over silver 0.0003" (7.62 micron) min.
- Greville Tinned to ITT Sealectro specification A0143502
- Bright acid tin 0.0003" (7.62 micron) min. over 0.0002" (5.08 micron) min. copper
- Silver 0.0002" (5.08 micron) over copper flash.

Bushing Colour

All terminals are manufactured with white ptfe

Dimensions

All dimensions are in inches with metric equivalents given in brackets or green throughout.

INSTALLATION PROCEDURE Press-Fit Insulated Terminals

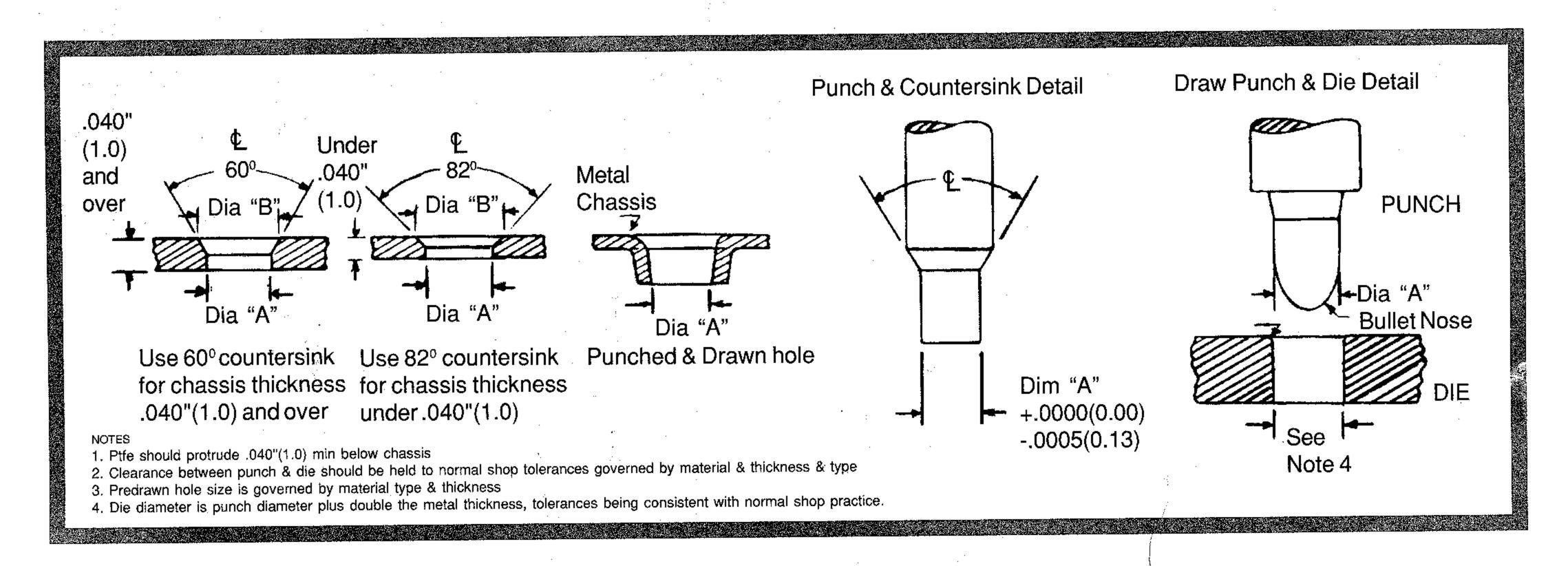
The Press-Fit method is the simplest, fastest, most economical terminal installation, with practically no restriction as to chassis material and thickness. The procedure is further simplified by the use of Insertion Tools available from ITT Sealectro. These inexpensive tools are designed to fit any drill press or hand-arbor press.

Recommended Insertion Tools for each terminal are listed in the first column following the terminal part number on each table in the catalogue.

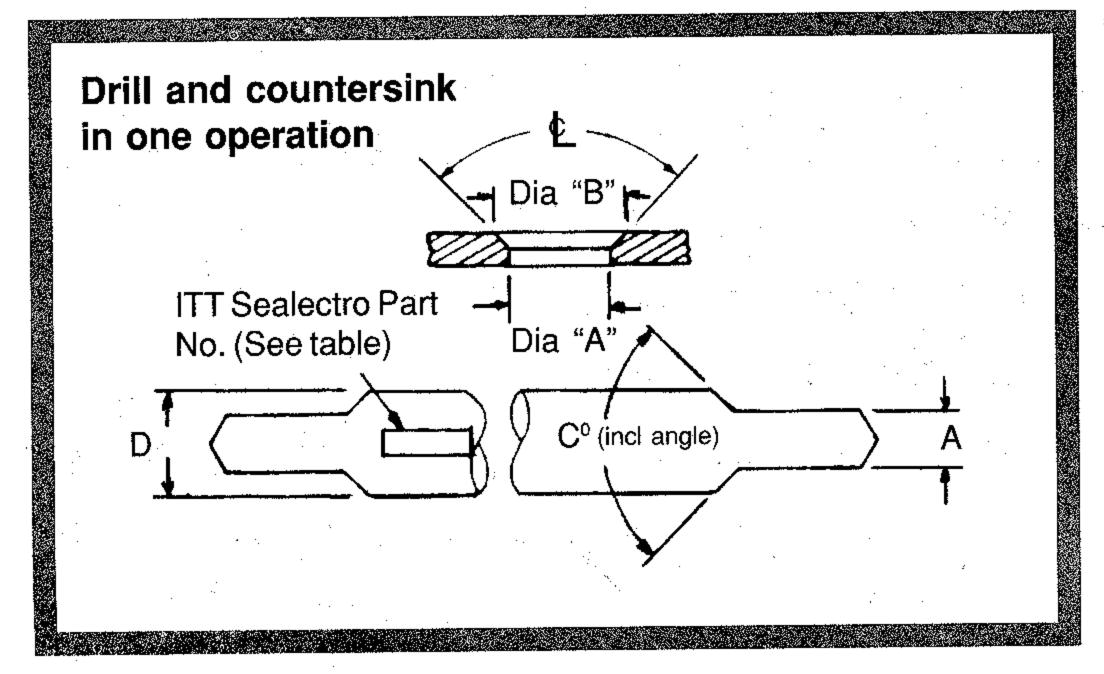
- (1) PUNCH OR DRILL HOLE in chassis 0.013" + 0.002 (0.05) less than diameter of terminal section (dia G in tables) passing through chassis. Minimum protrusion of bushing passing through chassis 0.040" (1.0). Maximum thickness of chassis 0.125" (3.18); for greater thickness ask for our recommendations. Countersink from breakout or die side of chassis (not from punch side)
- (2) COUNTERSINK ENTRANCE EDGEUse 60° countersink when chassis thickness is 0.040" (1.0) and over; use 82° countersink when chassis thickness is less than 0.040" (1.0). This enables centring of terminal in hole and prevents scoring the ptfe bushing. Depth and maximum diameter of countersink is determined by thickness of chassis stock and bushing's major diameter.

(3) INSERTION TOOL.... Insertion tool is placed in chuck of drill press (power off) or hand arbor press. Terminal is held by tool, leaving assembler's hands free to index and centre chassis hole underneath tool. Proper pressure is applied and released just as soon as major diameter of terminal seats itself.

| Bushing Mind (Dia "G" in ta | 1 | Hole or Dia. "A" (±0.05) | ±0.002" | Countersink Dia."B" +0.010"- 0.000" (+0.25 - 0.00) | | | | | | |
|--------------------------------|------|--------------------------------|---------|--|-----------|--|--|--|--|--|
| .075 | 4.70 | .070 | 1.78 | .08300 | 2.11 +.13 | | | | | |
| .093 | | .086 | 2.18 | .110 | 2.79 | | | | | |
| .104 | | .091 | 2.31 | .115 | 2.92 | | | | | |
| .125 | | .113 | 3.87 | .135 | 3.43 | | | | | |
| .148 | | .136 | 3.45 | .160 | 4.06 | | | | | |
| .165 | | .152 | 3.86 | .175 | 4.45 | | | | | |
| .171172 <i>4.34</i> | | .158 | 4.01 | .175 | 4.45 | | | | | |
| .185 | | .172 | 4.37 | .195 | 4.95 | | | | | |
| .217218 <i>5.5</i> | | .205 | 5.21 | .235 | 5.97 | | | | | |
| .256 | | .243 | 6.17 | .269 | 6.83 | | | | | |
| .290 | | .277 | 7.04 | .305 | 7.75 | | | | | |
| .373 | | .360 | 9.15 | .380 | 9.65 | | | | | |
| .513 | | .500 | 12.70 | .537 | 13.64 | | | | | |



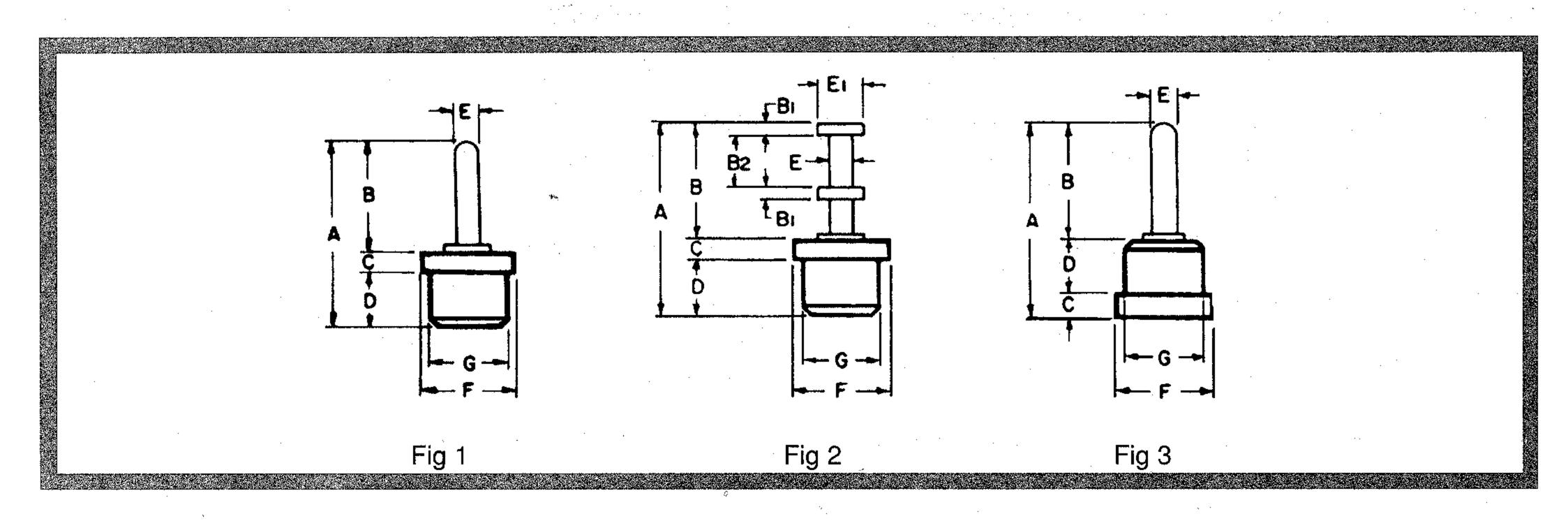
STEP DRILLS



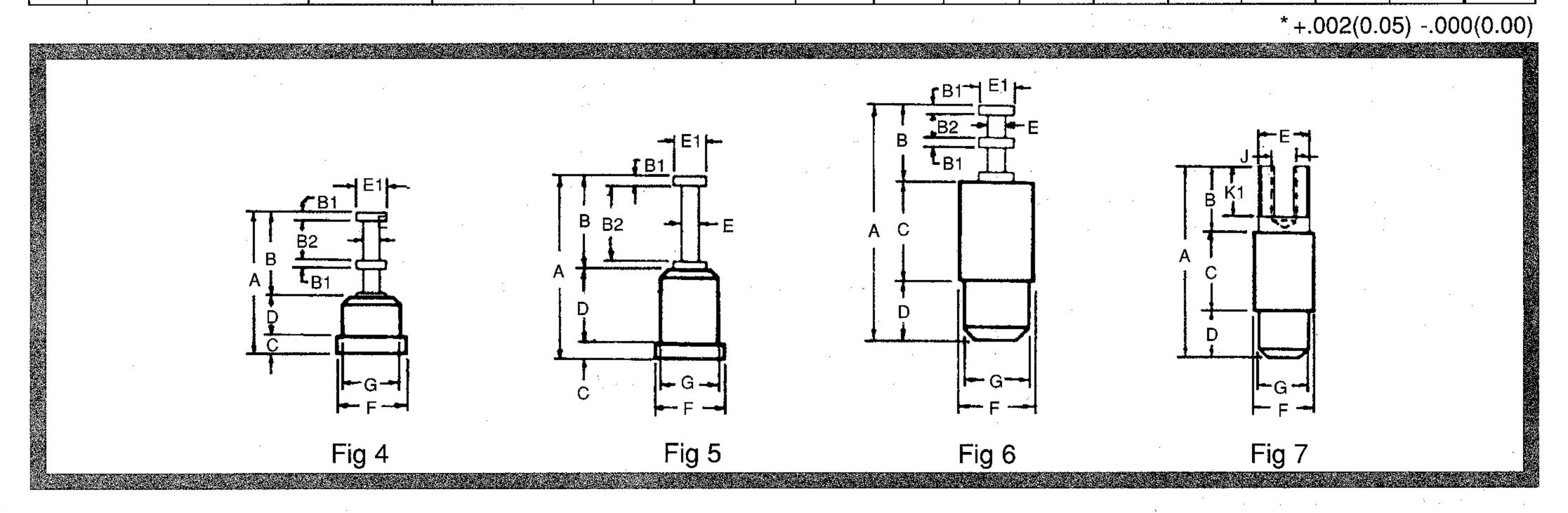
| Part No. | A | B* | Cº | D |
|--|--|------|----------------------------|--|
| 086-115-60 136-160-60 136-160-82 152-175-60 158-175-60 172-195-60 205-235-60 | .086 <i>2.18</i> .136 <i>3.45</i> .136 <i>3.45</i> .152 <i>3.86</i> .158 <i>4.01</i> .172 <i>4.37</i> .205 <i>5.21</i> | .115 | 60 82 60 60 60 | .187. 4.75 .187 4.75 .187 4.75 .187 4.75 .187 4.75 .250 6.35 .250 6.35 |

Note: B* is recommended diameter of countersink +.010(0.25) -.000(0.00)

STAND OFFS Press-Fit Terminals



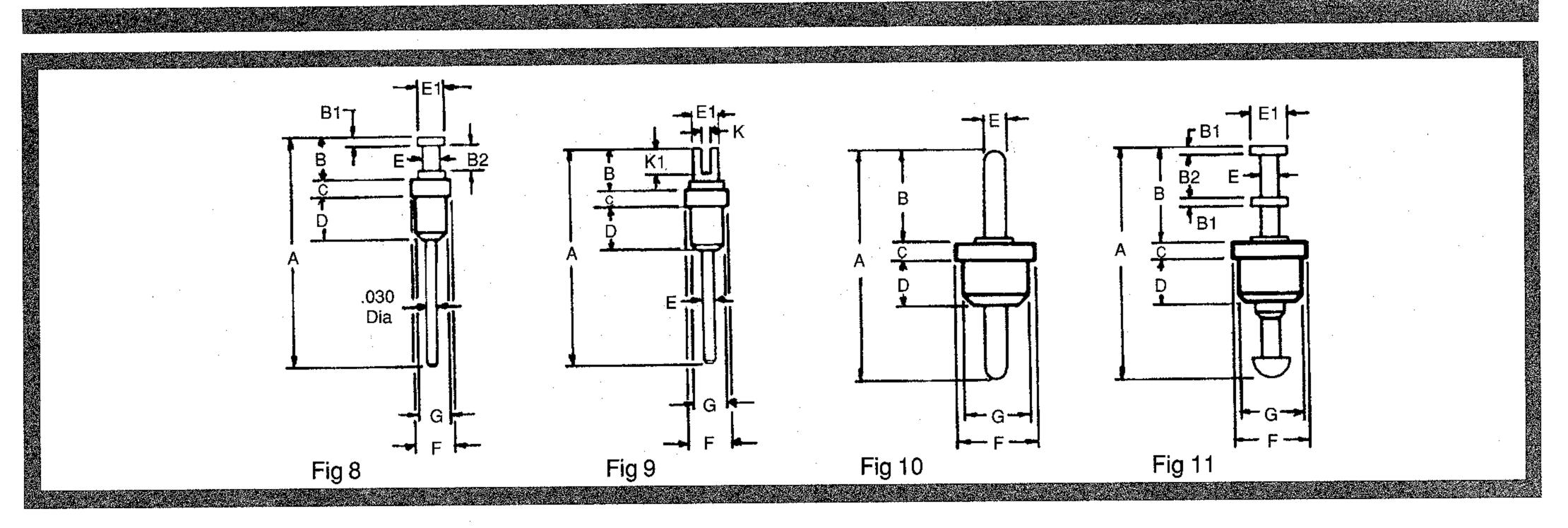
| Fig | Part No. | Tool No. | Approx Capacitance mmf | V RMS Nominal Rating | 50Hz Flashover Sea Level | A | В | B1 | B2 | С | D | E Dia | E1 Dia | F Dia | G * Dia |
|-----|------------------------------------|------------|------------------------------|----------------------------|--------------------------------|----------------------------|---------------------|--------------------|--------------------|---------------------|----------------------------|---------------------|--------------------|----------------------------|-----------------------------|
| 1 2 | 013-1000-040519 013-2001-040519 | B-8 B-8 | 0.45 | 1000 | 3000 3000 | .350 <i>8.9</i> .350 | .210 5.3 .210 | .020 | .100 | .040 1.0 .040 | .100 <i>2.5</i> .100 | .040 1.0 .040 | .080 | .172 <i>4.4</i> .172 | .148 <i>3.76</i> .148 |
| 2 | 013-2003-040519 | B-8 | 0.50 | 1000 | 3000 | .375 9.5 | 5.3 .210 5.3 | 0.5 .020 0.5 | 2.5 .100 2.5 | 1.0 .040 1.0 | 2.5 .125 3.2 | 1.0 .040 1.0 | 2.0 .080 2.0 | 4.4 .172 4.4 | 3.76 .148 3.76 |
| 1 | 013-1019-040519 | B-15 | 0.45 | 1000 | 3000 | .350 8.9 | .210 5.3 | | | .040 1.0 | .100 2.5 | .040 1.0 | , | .195 5.0 | .172 4.37 |
| 1 | 003-1009-040519 | B3-1 | 0.60 | 1000 | 3000 | .350 <i>8.9</i> | .210 5.3 | | | 1.0 | .100 2.5 | .040 1.0 | | .125 3.2 | .093 <i>2.36</i> |
| 2 | 003-2003-040519 | B3-2B | 0.60 | 1000 | 3000 | .350 8.9 | .210 5.3 | .020 <i>0.5</i> | .100 <i>2.5</i> | .040 1.0 | .100 2.5 | .040 1.0 | .080 2.0 | .125 3.2 | .093 2.36 |
| 3 | 014-1001-040519 004-1007-040519 | B8-G | 0.40 | 1200 | 3500 | .330 <i>8.4</i> | .210 5.3 | | | .020 0.5 | .100 2.5 | 1.0 1.0 | | .125 3.2 | .093 2.36 |
| 3 | 004-1007-040519 | B3-2X | 0.40 | 1000 | 3000 | .350 8.9 | .210 5.3 | | | .040 1.0 | .100 2.5 | .040 1.0 | | .172 4.4 | 3.76 |



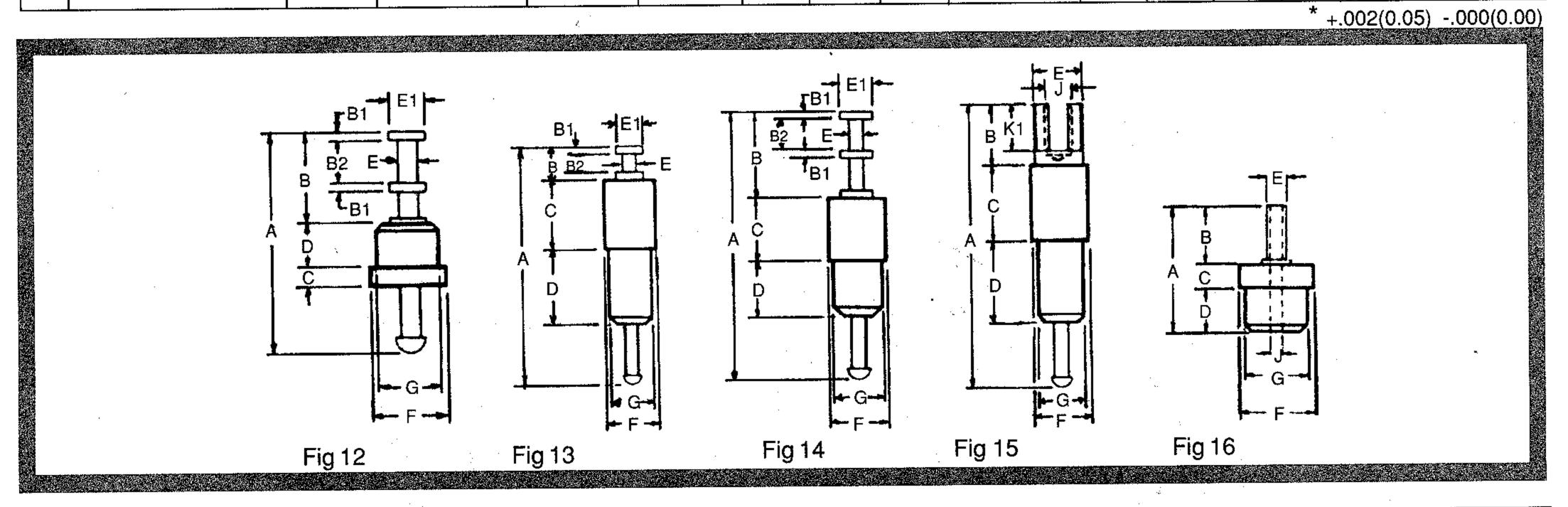
| Fig | Part No | Tool No. | Approx Capacitance mmf | V RMS Nominal Rating | 50Hz Flashover Sea Level | A | В | B1 | B2 | С | D · | E Dia | E1 Dia | F Dia | G * Dia | J Dia | K1 |
|-----|-----------------|-------------|------------------------------|----------------------------|--------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------|--------------------|---------------------|-------------|-------------|
| 4 | 014-2001-040519 | B8-X-1 | 0.40 | 1200 | 3500 | .350 <i>8.9</i> | .210 5.3 | .020 <i>0.5</i> | .100 2.5 | .040 1.0 | .100 2.5 | .040 1.0 | .080 2.0 | .172 4.4 | .148 <i>3.76</i> | | |
| 5 | 014-2011-040519 | B8-X-1 | 0.50 | 1700 | 4500 | . 455 | .227 5.8 | .020 <i>0.5</i> | .187 <i>4.8</i> | .040 1.0 | .187 <i>4.8</i> | .040 1.0 | .080 2.0 | .172 4.4 | .148 <i>3.76</i> | | |
| 6 | 013-2046-040609 | B12 | 0.30 | 2500 | 6000 | .431 <i>10.9</i> | .156 <i>4.0</i> | .020 <i>0.5</i> | .046 1.2 | .125 <i>3.2</i> | .150 3.8 | .046 1.2 | .093 2.4 | .187 4.8 | .165 4.19 | | |
| 7 | 013-3005-040609 | B11 | 0.70 | 2000 | 5000 | .478 12.1 | .203 <i>5.2</i> | | | .125 <i>3.2</i> | .150 <i>3.8</i> | .148 <i>3.8</i> | | .187 <i>4.8</i> | .171 <i>4.34</i> | .078 2.0 | .156 4.0 |
| 7 | 013-3007-040519 | B11 | 0.70 | 2300 | 5600 | .540 13.7 | .203 <i>5.2</i> | | | .187 <i>4.8</i> | .150 <i>3.8</i> | .148 3.8 | | .187 <i>4.8</i> | .171 <i>4.34</i> | .078 2.0 | .156 4.0 |

*+.002(0.05) -.000(0.00)

FEED-THROUGHS Press-Fit Terminals

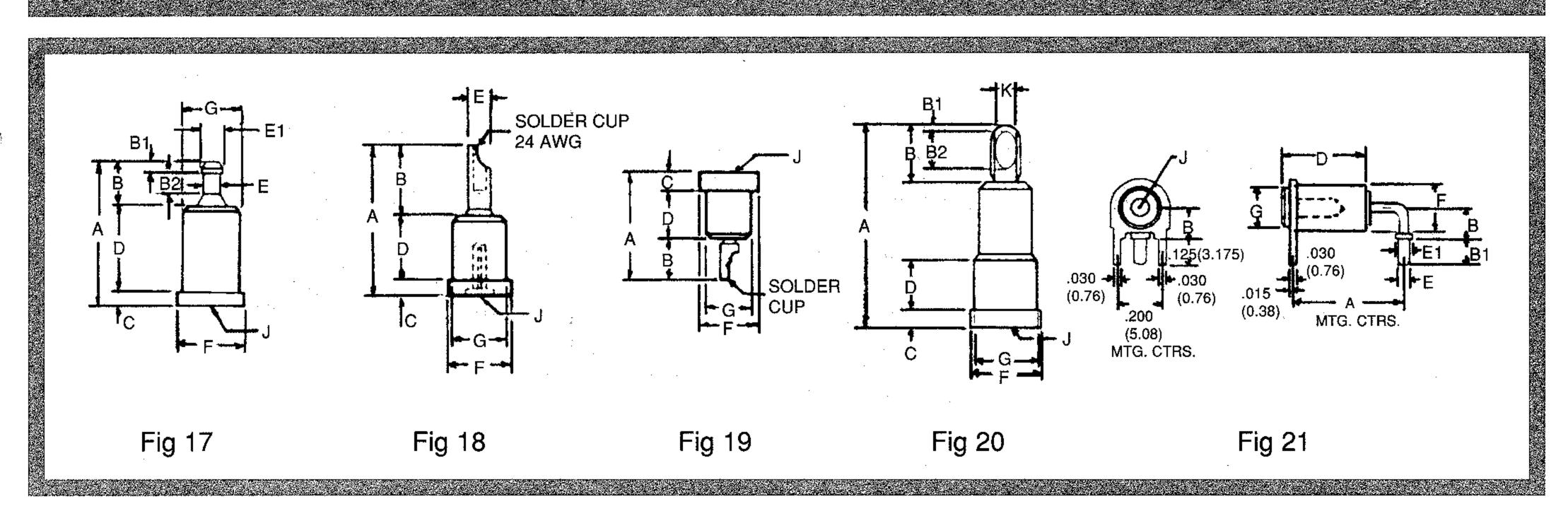


| Fig | Part No. | Tool No. | Approx Capacitance mmf | V RMS 50 Nominal Rating | OHz Flashover Sea Level | A | В | B1 | B2 | С | D | E Dia | E1 Dia | F Dia | G * Dia | К | K 1 |
|-----|-----------------|-------------|------------------------------|-------------------------------|-------------------------------|---------------------|--------------------|-------------|-------------|-------------|--------------------|--------------------|-------------|--------------------|-----------------------------|----------------------------|-------------|
| 8 | 001-2013-040519 | B0 | 0.70 | 400 | 1800 | .510 <i>13.0</i> | .100 2.5 | .020 0.5 | .060 1.5 | .040 1.0 | .100 2.5 | .040 1.0 | .060 1.5 | .093 2.4 | .075 1.91 | | |
| 9 | 001-3012-040519 | B0-1 | 0.70 | 400 | 1800 | .510 <i>13.0</i> | .100 2.5 | 0.0 | | .040 1.0 | .100 2.5 | .030 <i>0.8</i> | .060 1.5 | .093 2.4 | .075 1.91 | . 024 <i>0.6</i> | .080 2.0 |
| 10 | 001-1038-040519 | B0-2 | 0.70 | 400 | 1800 | .550 14.0 | .275 7.0 | | | 1.0 | .100 2.5 | .030 <i>0.8</i> | | .093 2.4 | .075 1.91 | | |
| 10 | 011-1004-040519 | B8-16 | 0.50 | 1000 | 3000 | .515 <i>13.1</i> | .210 <i>5.3</i> | | | .040 1.0 | .100 <i>2.5</i> | .040 1.0 | - | .172 4.4 | . 148 <i>3.76</i> | | |
| 10 | 011-4021-040519 | B8-16 | 0.50 | 1000 | 3000 | .375 9.5 | .125 <i>3.2</i> | | | .040 1.0 | .100 2.5 | .040 1.0 | | .172 <i>4.4</i> | .148 <i>3.76</i> | | |
| 10 | 001-1007-040519 | B3-1 | 0.75 | 500 | 2000 | .515 13.1 | .210 5.3 | | | .040 1.0 | .100 <i>2.5</i> | .040 1.0 | : | .125 3.2 | .093 2.36 | | |
| 11 | 001-2004-040519 | B-3-2B | 0.70 | 500 | 2000 | .500 12.7 | .210 <i>5.3</i> | .020 0.5 | .100 2.5 | .040 1.0 | .100 2.5 | .040 1.0 | .080 2.0 | .125 3.2 | .093 2.36 | | : |
| 11 | 011-2004-040519 | B8 - | 0.50 | 1000 | 3000 | .500 12.7 | .210 5.3 | .020 0.5 | .100 2.5 | .040 1.0 | .100 2.5 | .040 1.0 | .080 2.0 | .172 4.4 | .148 3.76 | | |
| 11 | 011-2023-040519 | B9 | 0.65 | 1200 | 3500 | .609 15.5 | .210 5.3 | .020 0.5 | .100 2.5 | .093 2.4 | .125 3.2 | .040 1.0 | .080 2.0 | .172 4.4 | .148 3.76 | | |



| Fig | Part No | Tool No. | Approx Capacitance mmf | V RMS 5 Nominal Rating | 0Hz Flashover Sea Level | A | В | B1 | B2 | С | D | E Dia | E1 Dia | F Dia | G * Dia | J | K1 |
|-----|-----------------|-------------|------------------------------|------------------------------|-------------------------------|--------------------|--------------------|--------------------|-------------|--------------------|--------------------|--------------------|-------------|--------------------|---------------------|---------------------|-------------|
| 12 | 012-2000-040519 | B8 | 0.50 | 1000 | 3000 | .500 12.7 | .210 5.3 | .020 0.5 | .100 2.5 | .040 1.0 | .100 <i>2.5</i> | .040 1.0 | .080 2.0 | .172 <i>4.4</i> | .148 3.76 | | |
| 13 | 011-2049-040519 | B10 | 0.75 | 1700 | 4500 | .540 13.7 | .133 <i>3.4</i> | .020 0.5 | .093 | 063 1.6 | .171 4.3 | .046 1.2 | .093 2.4 | .187 <i>4.8</i> | .171 <i>4.34</i> | | |
| 13 | 011-2062-040519 | B13 | 0.70 | 2200 | 5500 | .740 18.8 | .125 <i>3.2</i> | .031 | .062 1.6 | .187 <i>4.8</i> | .212 5.4 | .050 1.3 | .093 2.4 | .187 <i>4.8</i> | .171 <i>4.34</i> | | |
| 15 | 011-3014-040519 | B11 | 0.80 | 2000 | 5000 | .821 20.9 | .203 5.2 | | | .187 <i>4.8</i> | .212 5.4 | .148 <i>3.8</i> | | .187 <i>4.8</i> | .171 <i>4.34</i> | .078 2.0 | .156 4.0 |
| 14 | 011-2064-040519 | B13-3B | 0.80 | 2000 | 5000 | .836 21.2 | .250 6.4 | .020 <i>0.5</i> | .093 2.4 | .187 <i>4.8</i> | .212 5.4 | .050 1.3 | .093 2.4 | .187 <i>4.8</i> | .171 <i>4.34</i> | : | |
| 13 | 011-2072-040519 | B12-3 | 0.70 | 3000 | 7000 | .865 22.0 | .125 3.2 | .031 0.8 | .062 1.6 | .250 6.4 | .275 7.0 | .050 1.3 | .093 2.4 | .187 <i>4.8</i> | .171 4.34 | | |
| 16 | 001-6033-040519 | B3-1 | 0.40 | 500 | 2000 | .225 5.7 | .125 3.2 | | | .040 1.0 | .060 1.5 | .040 1.0 | | .125 3.2 | .093 2.36 | .030 <i>0.3.</i> | |
| 16 | 011-6015-040519 | B8-13A | 0.75 | 750 | 2500 | .367 <i>9.3</i> | .207 5.3 | | | .050 1.3 | .110 2.8 | .085 2.2 | | .172 <i>4.4</i> | .148 3.76 | .063 1.6 | |

TEST POINT JACKS Press-Fit Terminals

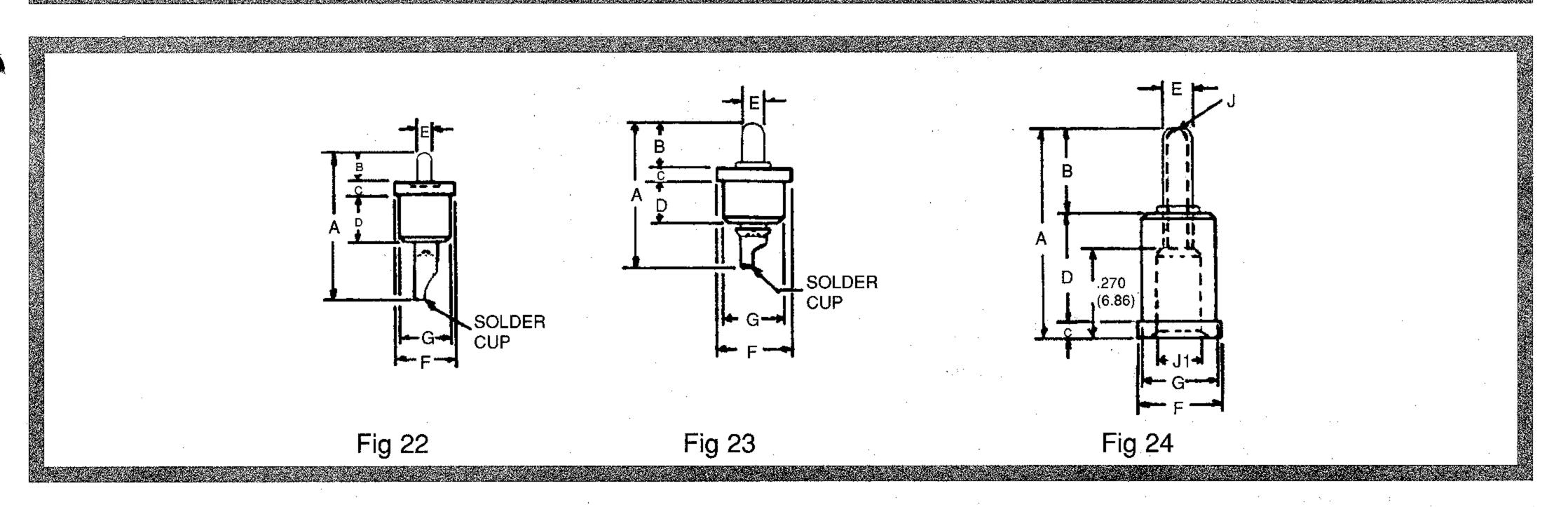


| | Fig | Part No. | Tool No. | Approx Capacitance mmf | | 50Hz Flashover Sea Level | A | В | B1 | B2 | С | D | E Dia | E1 Dia | F Dia | G * Dia | J Probe Dia | J1 Probe Lgth | K |
|---|-----|-----------------|-------------|------------------------------|------|--------------------------------|------------------|--------------------|--------------------|-------------|-------------|----------------------------|-------------|--------------|--------------------|---------------------|-----------------------------|---------------------|-----|
| | 17 | 016-2000-040209 | S2 | 0.60 | 1000 | 3000 | .437 11.1 | .120 3.0 | .037 0.9 | .053 1.3 | .046 1.2 | .271 6.9 | .054 1.4 | . 074 | .218 5.5 | .185 <i>4.70</i> | .080 2.03 | .195 5.0 | |
| | 17 | 016-2008-040209 | S5 | 0.35 | 1000 | 3000 | .345 8.8 | .120 3.0 | .023 <i>0.6</i> | .077 2.0 | .046 1.2 | .179 <i>4.5</i> | .040 1.0 | .060 1.5 | .172 <i>4.4</i> | .148 <i>3.76</i> | .040 1.02 | .140 <i>3.6</i> | |
| | 18 | 016-6001-040209 | S17 | 0.45 | 1000 | 3000 | .408 10.4 | .187 <i>4.7</i> | 0.0 | £ | .046 1.2 | .175 4.4 | .060 1.5 | 7.0 | .1 72 | .148 | .040 | .135 3.4 | |
| | 21 | 026-4005-040209 | | 0.50 | 1200 | 3500 | .400 | .140 | .125 | | 1.2 | .378 | .050 | .080 | .218 | 3.76 .187 | .080 | .250 | |
| § | 19 | 016-6600-040209 | S17 | 0.50 | 1000 | 3000 | <i>10.2</i> .359 | <i>3.6</i> .140 | 3.2 | ٠. | .065 | <i>9.6</i> . 154 | 1.3 | 2.0 | <i>5.5</i> .187 | .148 | <i>2.03</i> . 040 | <i>6.4</i> .125 | _ |
| | 20 | 016-8010-040209 | S38 | 0.75 | 1000 | 3000 | 9.1 .637 | 3.6 .171 | | .116 | 1.7 .050 | l | | | 4.7 .218 | | | 3.2 .312 | |
| | | | | | | | 16.2 | 4.3 | 0.7 | 2.9 | 1.3 | 4.4 | | | 5.5 | 4.70 | 2.03 | 7.9 | 1.4 |

* +.002(0.05) -.000(0.00)

* +.002(0.05) -.000(0.00)

PROBES Press-Fit Terminals



| | Fig | Part No. | Tool No. | Approx Capacitance mmf | V RMS 50 Nominal Rating | Hz Flashover Sea Level | Α | В | С | D | E Dia | F Dia | G * Dia | J Dia | J1 Dia |
|---|-----|-----------------|----------|------------------------------|-------------------------------|------------------------------|--------------|--------------------|-------------|--------------------|--------------|--------------------|--------------|-------------|-------------|
| | 22 | 011-4000-040209 | B8-14 | 0.70 | 1000 | 3000 | .538 13.7 | .130 <i>3.3</i> | .046 1.2 | .175 <i>4.4</i> | .040 1.02 | .172 4.4 | .148 3.76 | | |
| | 23 | 021-4006-040209 | B-22X1 | 0.20 | 3400 | 7800 | .645 16.4 | .270 6.9 | .050 1.3 | .325 8.3 | .080 | .250 6.4 | .218 5.54 | .062 1.6 | .128 3.3 |
| § | 24 | 011-4600-040209 | B-13-3 | 0.55 | 1000 | 3000 | .407 10.3 | .125 3.2 | .065 1.7 | .090 2.3 | .040 1.02 | .187 <i>4.7</i> | .148 3.76 | 7.0 | |
| | | ; | | | | | · | | : | | | | | | |

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R929991000 R941460000 R941461000 R941463600 R941920600 R948160000 31B-2-RED 032-0016-023 105-1106-001 108-1000-106

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