Amphenol SINESYSTEMS

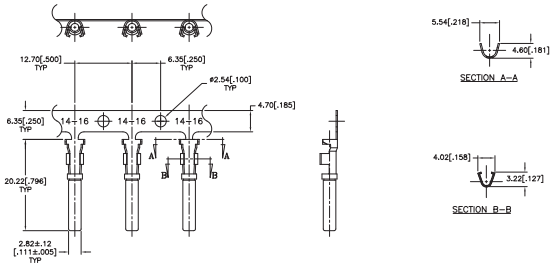
AT Series™ Connectors

# STAMPED AND FORMED CONTACTS, PG 1 of 2

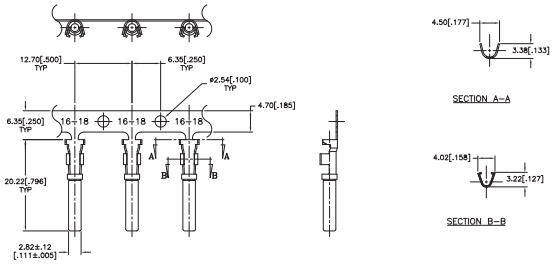
Click on blue underlined part numbers to be taken to their spec sheets.

## OPTIONS

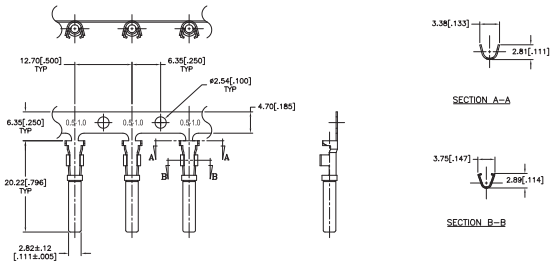
**PART NUMBER: AT62-14-01XX**
**DESCRIPTION: CONTACT, SOCKET, STAMPED, SIZE 16**
MATERIAL:
CONTACT BODY: COPPER ALLOY
HOOD: STAINLESS STEEL
PLATING SUFFIX CODE:
XX=22 NICKEL PLATING
XX=44 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: ATT-16 00, MFX-3950 & MFX-3953
CRIMPER SPECIFICATIONS: S2-15223 & S2-15224
CRIMP INFORMATION DRAWING: S2-15221 & S2-15222
CONTACTS PER REEL: APPROX. 4000 (PARTIAL REELS AVAILABLE)



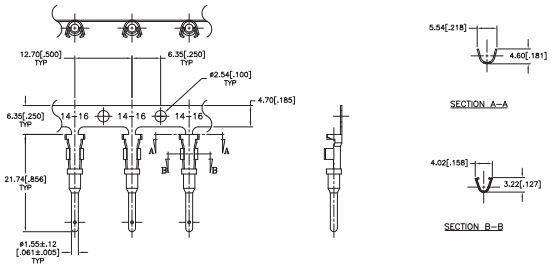

**PART NUMBER: AT62-16-01XX**
**DESCRIPTION: CONTACT, SOCKET, STAMPED, SIZE 16**
MATERIAL:
CONTACT BODY: COPPER ALLOY
HOOD: STAINLESS STEEL
PLATING SUFFIX CODE:
XX=22 NICKEL PLATING
XX=44 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: ATT-16-00, ATT-16-01, MFX-3950 & MFX-3953
CRIMPER SPECIFICATIONS: S2-15223 & S2-15224
CRIMP INFORMATION DRAWING: S2-15221 & S2-15222
CONTACTS PER REEL: APPROX. 4000 (PARTIAL REELS AVAILABLE)




**PART NUMBER: AT62-16-06XX**
**DESCRIPTION: CONTACT, SOCKET, STAMPED, SIZE 16**
MATERIAL:
CONTACT BODY: COPPER ALLOY
HOOD: STAINLESS STEEL
PLATING SUFFIX CODE:
XX=22 NICKEL PLATING
XX=44 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: ATT-16-01, MFX-3950 & MFX-3953
CRIMPER SPECIFICATIONS: S2-15223 & S2-15224
CRIMP INFORMATION DRAWING: S2-15221 & S2-15222
CONTACTS PER REEL: APPROX. 4000 (PARTIAL REELS AVAILABLE)




**PART NUMBER: AT60-14-01XX**
**DESCRIPTION: CONTACT, PIN, STAMPED, SIZE 16**
MATERIAL: COPPER ALLOY
PLATING SUFFIX CODE:
XX=22 NICKEL PLATING
XX=44 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: ATT-16-00, MFX-3950 & MFX-3953
CRIMPER SPECIFICATIONS: S2-15223 & S2-15224
CRIMP INFORMATION DRAWING: S2-15221 & S2-15222
CONTACTS PER REEL: APPROX. 4000 (PARTIAL REELS AVAILABLE)

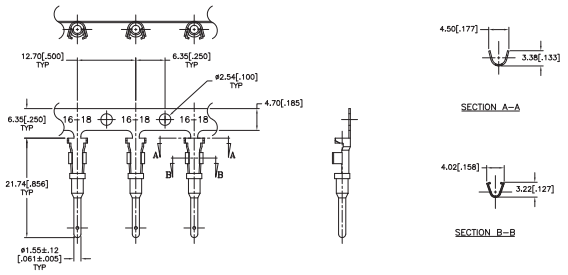


# STAMPED AND FORMED CONTACTS, PG 2 of 2

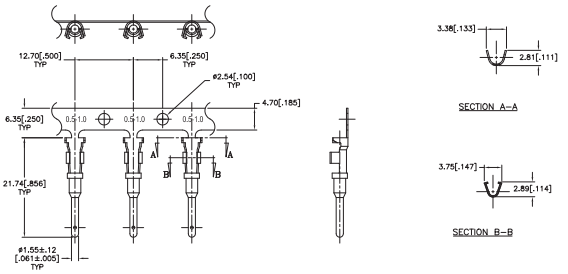
Click on blue underlined part numbers to be taken to their spec sheets.

## OPTIONS

**PART NUMBER: AT60-16-01XX**
**DESCRIPTION: CONTACT, PIN, STAMPED, SIZE 16**
MATERIAL: COPPER ALLOY
PLATING SUFFIX CODE:
XX=22 NICKEL PLATING
XX=44 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: ATT-16-00, ATT-16-01, MFX-3950 & MFX-3953
CRIMPER SPECIFICATIONS: S2-15223 & S2-15224
CRIMP INFORMATION DRAWING: S2-15221 & S2-15222
CONTACTS PER REEL: APPROX. 4000 (PARTIAL REELS AVAILABLE)




**PART NUMBER: AT60-16-06XX**
**DESCRIPTION: CONTACT, PIN, STAMPED, SIZE 16**
MATERIAL: COPPER ALLOY
PLATING SUFFIX CODE:
XX=22 NICKEL PLATING
XX=44 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: ATT-16-01, MFX-3950 & MFX-3953
CRIMPER SPECIFICATIONS: S2-15223 & S2-15224
CRIMP INFORMATION DRAWING: S2-15221 & S2-15222
CONTACTS PER REEL: APPROX. 4000 (PARTIAL REELS AVAILABLE)



Amphenol SINESYSTEMS

AT Series™ Connectors

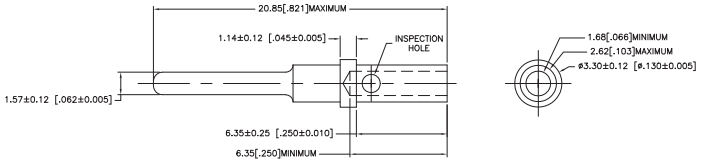
# SOLID/MACHINED CONTACTS

Click on blue underlined part numbers to be taken to their spec sheets.

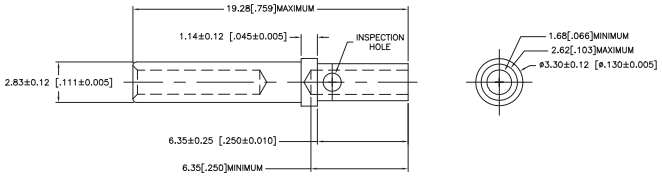
## OPTIONS

### MILITARY-STYLE

**PART NUMBER: AT60-202-16XX**
**DESCRIPTION: CONTACT, PIN, SOLID MACHINED, SIZE 16**
MATERIAL: COPPER ALLOY
PLATING SUFFIX CODE:
XX=141 NICKEL PLATING
XX=31 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218

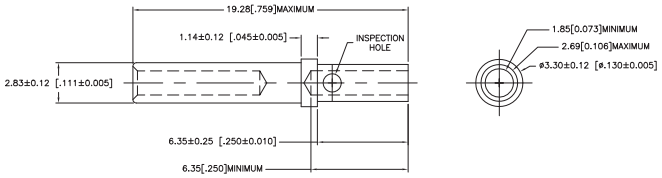



**PART NUMBER: AT62-201-16XX**
**DESCRIPTION: CONTACT, SOCKET, SOLID MACHINED, SIZE 16**
MATERIAL:
CONTACT BODY: COPPER ALLOY
HOOD: STAINLESS STEEL
PLATING SUFFIX CODE:
XX=141 NICKEL PLATING
XX=31 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218

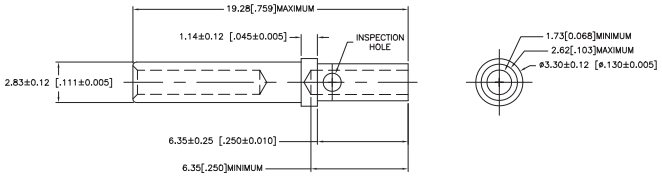



### ROCKSOLID™ CONTACTS

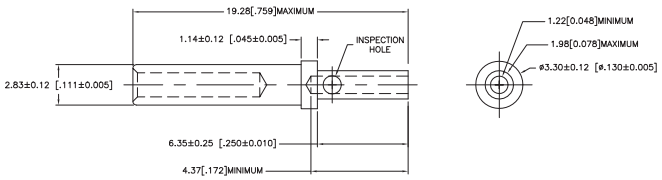
**PART NUMBER: 65-54942-14**
**DESCRIPTION: CONTACT, SOCKET, ROCKSOLID, SIZE 16**
AWG RANGE: 14AWG
MATERIAL: COPPER ALLOY
PLATING: GOLD
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218



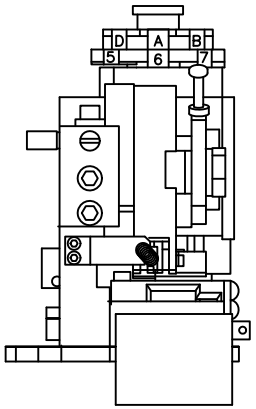

**PART NUMBER: 65-54942-16**
**DESCRIPTION: CONTACT, SOCKET, ROCKSOLID, SIZE 16**
AWG RANGE: 16AWG
MATERIAL: COPPER ALLOY
PLATING: GOLD
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218

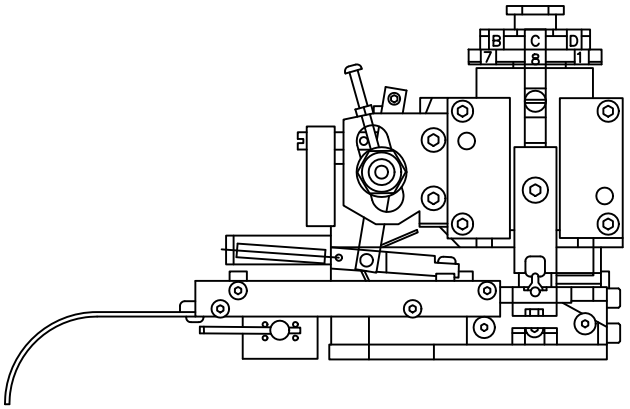



**PART NUMBER: 65-54942-20**
**DESCRIPTION: CONTACT, SOCKET, ROCKSOLID, SIZE 16**
AWG RANGE: 20AWG
MATERIAL: COPPER ALLOY
PLATING: GOLD
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218

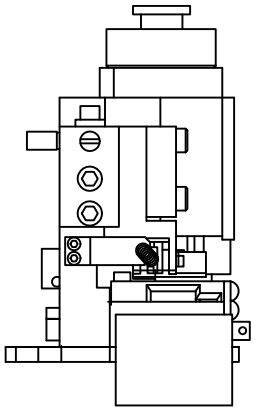


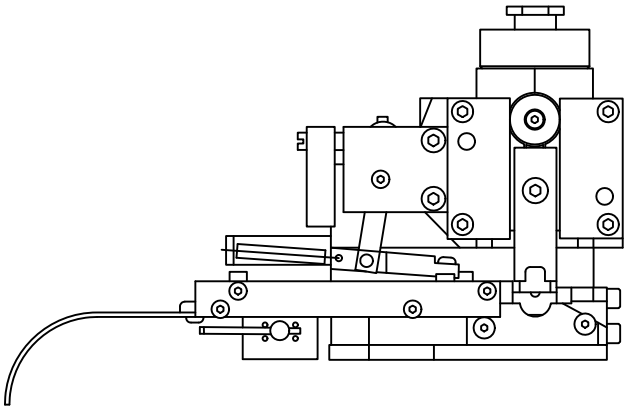
| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| REV | ZONE | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | - | RELEASE NUMBER 016571 | 6/12/09 | B.D.B. | M.R.F. |




| | |
|---|---|
| SINE PART NUMBER | MFX-3950 |
| DEUTSCH PART NUMBER | DCT16-02-00 |
| TYCO PART NUMBER | 1-3-1385344-1, 2, 3, 4, 5 & 7 |





| | |
|---|---|
| SINE PART NUMBER | MFX-3953 |
| DEUTSCH PART NUMBER | DCT1620-02-00 |

ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

ALL REFERENCES TO TYCO PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO TYCO ELECTRONICS.

| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|

MATERIALS LIST

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.
2) Tolerances are as follows:
1 PL DEC ±0.05 | Fractions ±1/64
2 PL DEC ±0.01 | Angles ±1°
3 PL DEC ±0.005
3) Fabrication Standards Per: S5-20020
4) Note Reference = ⚠
U

MATERIAL SPECIFICATIONS: N/A

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | BERNUM | 6/9/09 |
| CHECKED: | FORCE | 6/9/09 |
| ENGINEER: | BERNUM | |
| APPROVAL: | BERNUM | 6/9/09 |
| CUSTOMER: | | |



SINE Systems Corporation
A Subsidiary of Amphenol Corporation
44724 Morley Drive
Clinton Township, MI 48036

CRIMPER INFORMATION
MFX-3950 & MFX-3953

| SIZE | FSCM NO. | DWG NO: | REVISION |
|---|---|---|---|
| C | 1GK44 | S2-15224 | A1 |

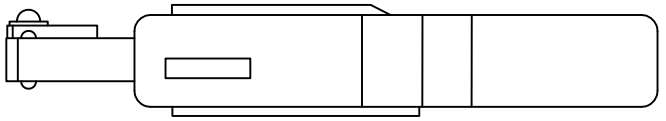
SCALE: NONE | S2-15224 | SHEET 1 OF 1

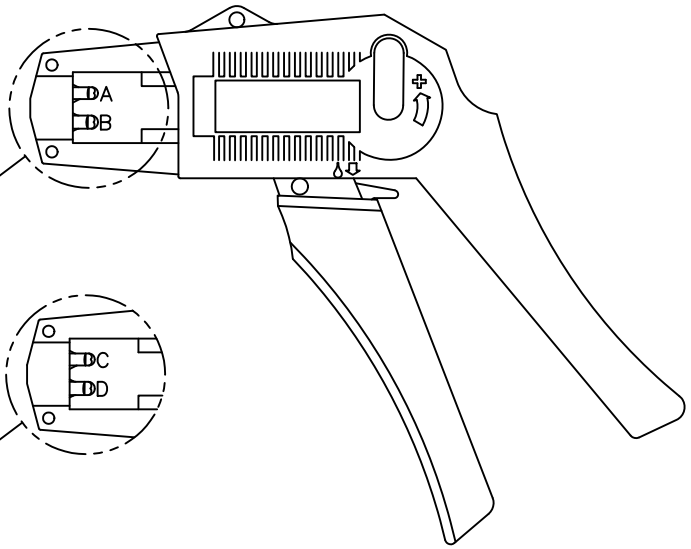
TITLE: CRIMPER INFORMATION
DWG NO: S2-15224
REV: A1
SH: 1
OF: 1

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | – | RELEASE NUMBER 016571 | 6/12/09 | B.D.B. | M.R.F. |

## USE CRIMPER NUMBER: ATT–16–00 WITH CAVITY A & B

| CONTACT P/N: | | INSULATION ø | CAVITY | WIRE SIZE |
|---|---|---|---|---|
| AT60–16–01** | PIN | .075 – .140 | B | 1.5mm² |
| AT62–16–01** | SOC | [1.91 – 3.56] | A | 16AWG |
| | | | A | 1.0mm² |
| AT60–14–01** | PIN | .095 – .150 | B | 14AWG |
| AT62–14–01** | SOC | [2.41 – 3.81] | B | 2.0mm² |
| | | | B | 1.5mm² |
| | | | A | 1.5mm² |
| | | | A | 16AWG |
| | | | A | 1.0mm² |
| AT60–16–06** | PIN | .055 – .100 | A | 16AWG |
| AT62–16–06** | SOC | [1.40 – 2.54] | A | 1.0mm² |






CAVITY VIEW OF CRIMPER NUMBER ATT–16–00

CAVITY VIEW OF CRIMPER NUMBER ATT–16–01

## USE CRIMPER NUMBER: ATT–16–01 WITH CAVITY C & D

| CONTACT P/N: | | INSULATION ø | CAVITY | WIRE SIZE |
|---|---|---|---|---|
| AT60–16–01** | PIN | .075 – .140 | D | 18AWG |
| AT62–16–01** | SOC | [1.91 – 3.56] | D | .75mm² |
| AT60–16–06** | PIN | .055 – .100 | D | 18AWG |
| AT62–16–06** | SOC | [1.40 – 2.54] | D | .75mm² |
| | | | C | .50mm² |

ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

NOTES (UNLESS OTHERWISE SPECIFIED):
1. ALL DIMENSIONS IN INCHES [MILLIMETERS]
2. FOR PLATING CODES ** SEE CONTACT DATA DRAWINGS.
3. THIS TOOL IS FOR CRIMPING SIZE 16 CONTACTS ONLY TO WIRES LISTED IN THE CHARTS.
4. DEUTSCH IPD CROSS REFERENCE PART NUMBERS ARE DTT–16–00 AND DTT–16–01.

| | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|
| QUANTITY | MATERIALS LIST | | |

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.
2) Tolerances are as follows:
1 PL DEC ±0.05 | Fractions ±1/64
2 PL DEC ±0.01 | Angles ±1°
3 PL DEC ±0.005
3) Fabrication Standards Per: S5–20020
4) Note Reference = 2
U

MATERIAL SPECIFICATIONS: N/A

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | BERNUM | 6/8/09 |
| CHECKED: | FORCE | 6/8/09 |
| ENGINEER: | BERNUM | |
| APPROVAL: | BERNUM | 6/8/09 |
| CUSTOMER: | | |



SINE Systems Corporation
A Subsidiary of Amphenol Corporation
44724 Morley Drive
Clinton Township, MI 48036

INSTRUCTIONS, ATT–16–00 & 01
CRIMPER, HAND, STAMPED CONTACTS

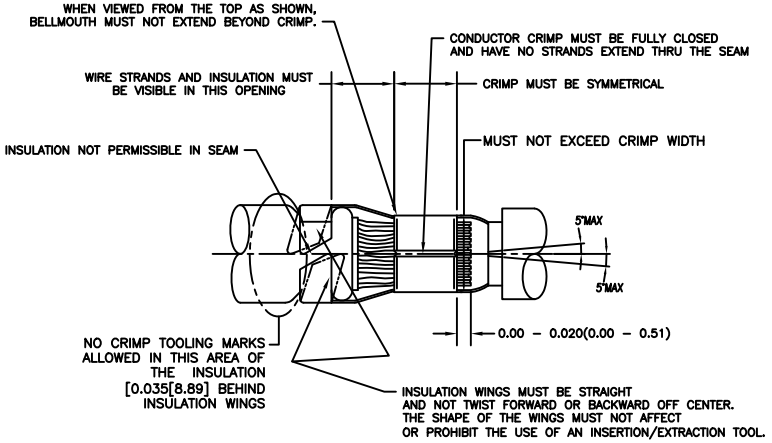
| SIZE | FSCM NO. | DWG NO: | REVISION |
|---|---|---|---|
| B | 1GK44 | S2–15223 | A1 |

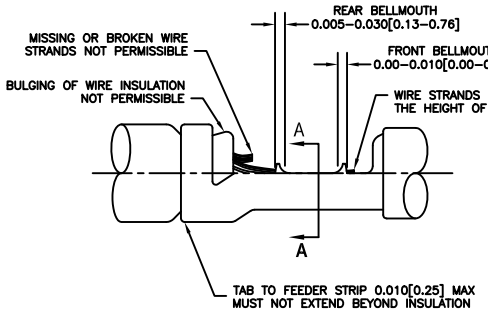
SCALE: NONE | S2–15223 | SHEET 1 OF 1

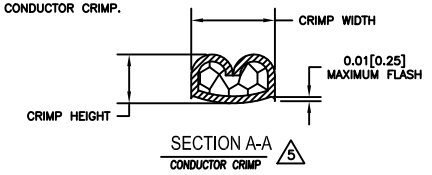
TITLE: INSTRUCTIONS, CRIMPER, HAND
DWG NO: S2–15223
REV: A1
SH: 1
OF: 1

| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| REV | ZONE | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | – | – | RELEASE NUMBER 016571 | 6/12/09 | B.D.B. | M.R.F. |

| STAMPED CONTACT PART NUMBER 1060=PIN 1062=SOCKET (3) | SIZE | (9) CONDUCTOR WIRE SIZE | CRIMP HEIGHT (5) +0.001/-0.002 INCH [+0.03/-0.05 mm] | CRIMP WIDTH (5) ±0.003 INCH [±0.08 mm] | CONDUCTOR PUNCH NUMBER | CONDUCTOR ANVIL NUMBER | CRIMP TENSILE REFERENCE (6) LBS[N] |
|---|---|---|---|---|---|---|---|
| AT60-14-01xx<br>AT62-14-01xx<br>INSULATION RANGE<br>0.095-0.150[2.41-3.81] | 16 | 14 AWG | 0.055[1.40] | 0.094[2.39] | AT17-002-0200 | AT17-101-0200 | 25[111] |
| | | 2.00mm² | 0.055[1.40] | 0.094[2.39] | | | |
| | | 1.50mm² | 0.053[1.35] | 0.094[2.39] | | | |
| | | 16 AWG | 0.050[1.27] | 0.094[2.39] | | | |
| | | 1.00mm² | 0.050[1.27] | 0.094[2.39] | | | |
| | | 18 AWG | 0.049[1.24] | 0.094[2.39] | | | |
| | | 0.75mm² | 0.048[1.22] | 0.094[2.39] | | | |
| AT60-16-01xx<br>AT62-16-01xx<br>INSULATION RANGE<br>0.075-0.140[1.91-3.56] | 16 | 14 AWG | 0.055[1.40] | 0.094[2.39] | AT17-002-0200 | AT17-101-0200 | 25[111] |
| | | 2.00mm² | 0.055[1.40] | 0.094[2.39] | | | |
| | | 1.50mm² | 0.053[1.35] | 0.094[2.39] | | | |
| | | 16 AWG | 0.050[1.27] | 0.094[2.39] | | | |
| | | 1.00mm² | 0.050[1.27] | 0.094[2.39] | | | |
| | | 18 AWG | 0.049[1.24] | 0.094[2.39] | | | |
| | | 0.75mm² | 0.048[1.22] | 0.094[2.39] | | | |
| AT60-16-06xx<br>AT62-16-06xx<br>INSULATION RANGE<br>0.055-0.100[1.40-2.54] | 16 | 16 AWG | 0.050[1.27] | 0.079[2.01] | AT17-003-0200 | AT17-103-0200 | 25[111] |
| | | 1.00mm² | 0.050[1.27] | 0.079[2.01] | | | |
| | | 18 AWG | 0.049[1.24] | 0.079[2.01] | | | |
| | | 0.75mm² | 0.048[1.22] | 0.079[2.01] | | | |
| | | 20 AWG | 0.048[1.22] | 0.079[2.01] | | | 15[67] |
| | | 0.50mm² | 0.045[1.14] | 0.079[2.01] | | | |




(7)

| INSULATION DIAMETER RANGE | | INSULATION PUNCH NUMBER | INSULATION ANVIL NUMBER |
|---|---|---|---|
| 0.120-0.150 | [3.05-3.81] | AT17-210-0200 | AT17-310-0200 |
| 0.105-0.125 | [2.67-3.18] | AT17-211-0200 | AT17-311-0200 |
| 0.085-0.111 | [2.16-2.82] | AT17-213-0200 | AT17-313-0200 |
| 0.075-0.105 | [1.91-2.67] | AT17-214-0200 | AT17-304-0200 |
| 0.063-0.094 | [1.62-2.39] | AT17-217-0200 | AT17-317-0200 |
| 0.050-0.075 | [1.27-1.91] | AT17-218-0200 | AT17-318-0200 |

## CROSS REFERENCE

| SINE PART NUMBER | DEUTSCH PART NUMBER |
|---|---|
| MFX-3950 | DCT16-02-00 |
| AT17-002-0200 | 1017-002-0200 |
| AT17-003-0200 | 1017-003-0200 |
| AT17-101-0200 | 1017-101-0200 |
| AT17-103-0200 | 1017-103-0200 |
| AT17-210-0200 | 1017-210-0200 |
| AT17-211-0200 | 1017-211-0200 |
| AT17-213-0200 | 1017-213-0200 |
| AT17-214-0200 | 1017-214-0200 |
| AT17-217-0200 | 1017-217-0200 |
| AT17-218-0200 | 1017-218-0200 |
| AT17-310-0200 | 1017-310-0200 |
| AT17-311-0200 | 1017-311-0200 |
| AT17-313-0200 | 1017-313-0200 |
| AT17-304-0200 | 1017-304-0200 |
| AT17-317-0200 | 1017-317-0200 |
| AT17-318-0200 | 1017-318-0200 |

## NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS ARE IN INCHES[mm].
2. FORCES ARE IN POUNDS[LBS] AND NEWTONS[N].
3. "XX"= PLATING SUFFIX. SEE INDIVIDUAL CONTACT DRAWING .
4. WIRE STRIP LENGTH: 0.175±0.025[4.45±0.64]. BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE.
5. USE A BLADE MICROMETER (0.100[2.54] MIN SPINDLE AND 0.060/0.010[1.50/0.040] ANVIL) TO MEASURE THE CONDUCTOR CRIMP. SEE SECTION A-A
6. CRIMP TENSILE STRENGTH IS DETERMINED AT A PULL RATE SPEED OF 1.00 INCH[25.4] PER MINUTE. INSULATION WINGS ARE REMOVED FOR TEST. ACTUAL CRIMP TENSILE STRENGTH DEPENDS ON WIRE/CONDUCTOR SIZE. VALUES ON THIS SPECIFICATION ARE FOR REFERENCE ONLY.
7. INSULATION DIAMETER RANGE IS DETERMINED BY CONNECTOR AND IT'S WIRE SEAL SIZE. SEE CONNECTOR DRAWING FOR INSULATION RANGE.
8. INSULATION CRIMP DIAMETER SHOULD BE THE EQUAL OR LESS THAN THE DIAMETER OF THE WIRE INSULATION (HARD OR TEFLON INSULATION MAY BE AN EXCEPTION). INSULATION CRIMP SHALL NOT AFFECT REMOVAL TOOL PERFORMANCE AND SHALL NOT DAMAGE CONNECTOR GROMMET SEAL.
9. CONDUCTOR TYPE ARE PER SAEJ1128(AWG) AND ISO 6722(METRIC)
10. FOR CONTACT MATERIAL AND PERFORMANCE DATA, SEE DRAWING S2-15217.
11. REFER TO S2-15223 AND S2-15224 AND CROSS REFERENCE CHARTS FOR CRIMP TOOL DATA.

ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|
| MATERIALS LIST | | | |

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.
2) Tolerances are as follows:
1 PL DEC ±0.05 | Fractions ±1/64
2 PL DEC ±0.01 | Angles ±1°
3 PL DEC ±0.005
3) Fabrication Standards Per: S5-20020
4) Note Reference = (4)
MATERIAL SPECIFICATIONS: N/A
PROCESS SPECIFICATIONS:
NEXT ASS'Y:
U

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | POTER | 4/7/09 |
| CHECKED: | FORCE | 6/8/09 |
| ENGINEER: | BERNUM | |
| APPROVAL: | BERNUM | 6/8/09 |
| CUSTOMER: | | |



SINE Systems Corporation
A Subsidiary of Amphenol Corporation
44724 Morley Drive
Clinton Township, MI 48036

CRIMP DATA, STAMPED CONTACTS FOR CRIMPER MFX-3950

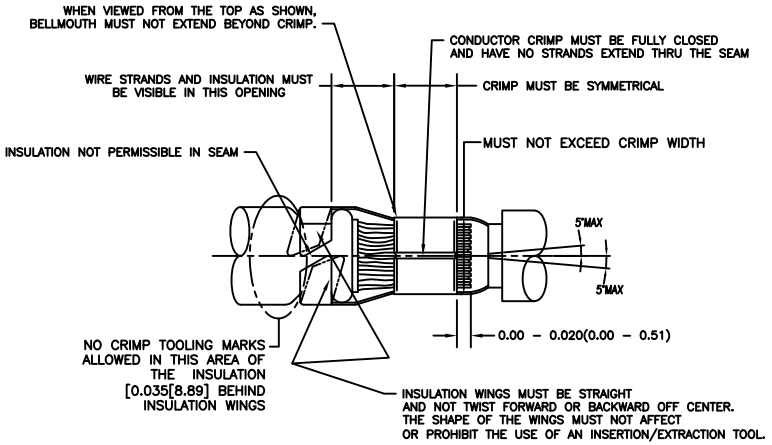
| SIZE | FSCM NO. | DWG NO: | REVISION |
|---|---|---|---|
| C | 1GK44 | S2-15222 | A1 |

SCALE: NONE | S2-15222 | SHEET 1 OF 1

TITLE: CRIMP DATA, STAMPED CONTACTS
DWG NO: S2-15222
REV: A1
SH: 1
OF: 1

| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| REV | ZONE | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | – | – | RELEASE NUMBER 016571 | 6/12/09 | B.D.B. | M.R.F. |

| STAMPED CONTACT PART NUMBER 1060=PIN 1062=SOCKET (3) | SIZE | (9) CONDUCTOR WIRE SIZE | CRIMP HEIGHT (5) +0.001/-0.002 INCH [+0.03/-0.05 mm] | CRIMP WIDTH (5) ±0.003 INCH [±0.08 mm] | CONDUCTOR PUNCH NUMBER | CONDUCTOR ANVIL NUMBER | CRIMP TENSILE REFERENCE (6) LBS[N] |
|---|---|---|---|---|---|---|---|
| AT60-14-01xx<br>AT62-14-01xx<br>INSULATION RANGE<br>0.095-0.150[2.41-3.81] | 16 | 14 AWG | 0.055[1.40] | 0.094[2.39] | AT17-083-0200 | AT17-183-0200 | 25[111] |
| | | 2.00mm² | 0.055[1.40] | 0.094[2.39] | | | |
| | | 1.50mm² | 0.053[1.35] | 0.094[2.39] | | | |
| | | 16 AWG | 0.050[1.27] | 0.094[2.39] | | | |
| | | 1.00mm² | 0.050[1.27] | 0.094[2.39] | | | |
| | | 18 AWG | 0.049[1.24] | 0.094[2.39] | | | |
| | | 0.75mm² | 0.048[1.22] | 0.094[2.39] | | | |
| AT60-16-01xx<br>AT62-16-01xx<br>INSULATION RANGE<br>0.075-0.140[1.91-3.56] | 16 | 14 AWG | 0.055[1.40] | 0.094[2.39] | AT17-083-0200 | AT17-183-0200 | 25[111] |
| | | 2.00mm² | 0.055[1.40] | 0.094[2.39] | | | |
| | | 1.50mm² | 0.053[1.35] | 0.094[2.39] | | | |
| | | 16 AWG | 0.050[1.27] | 0.094[2.39] | | | |
| | | 1.00mm² | 0.050[1.27] | 0.094[2.39] | | | |
| | | 18 AWG | 0.049[1.24] | 0.094[2.39] | | | |
| | | 0.75mm² | 0.048[1.22] | 0.094[2.39] | | | |
| AT60-16-06xx<br>AT62-16-06xx<br>INSULATION RANGE<br>0.055-0.100[1.40-2.54] | 16 | 16 AWG | 0.050[1.27] | 0.079[2.01] | AT17-082-0200 | AT17-182-0200 | 25[111] |
| | | 1.00mm² | 0.050[1.27] | 0.079[2.01] | | | |
| | | 18 AWG | 0.049[1.24] | 0.079[2.01] | | | |
| | | 0.75mm² | 0.048[1.22] | 0.079[2.01] | | | |
| | | 20 AWG | 0.048[1.22] | 0.079[2.01] | | | 15[67] |
| | | 0.50mm² | 0.045[1.14] | 0.079[2.01] | | | |

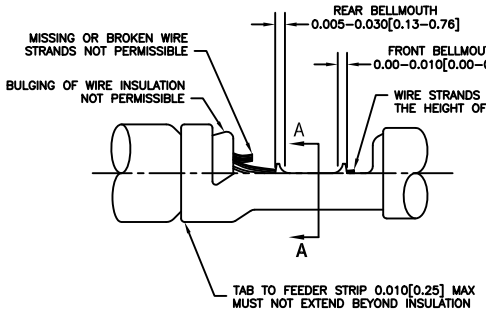


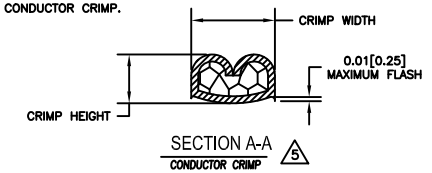

(7)

| INSULATION DIAMETER RANGE | | INSULATION PUNCH NUMBER | INSULATION ANVIL NUMBER |
|---|---|---|---|
| 0.120-0.150 | [3.05-3.81] | AT17-225-0200 | AT17-325-0200 |
| 0.105-0.125 | [2.67-3.18] | AT17-226-0200 | AT17-326-0200 |
| 0.085-0.111 | [2.16-2.82] | AT17-227-0200 | AT17-327-0200 |
| 0.075-0.105 | [1.91-2.67] | AT17-228-0200 | AT17-328-0200 |
| 0.063-0.094 | [1.62-2.39] | AT17-229-0200 | AT17-329-0200 |
| 0.050-0.075 | [1.27-1.91] | AT17-230-0200 | AT17-330-0200 |

## CROSS REFERENCE

| SINE PART NUMBER | DEUTSCH PART NUMBER |
|---|---|
| MFX-3953 | DCT1620-02-00 |
| AT17-083-0200 | 1017-083-0200 |
| AT17-082-0200 | 1017-082-0200 |
| AT17-183-0200 | 1017-183-0200 |
| AT17-182-0200 | 1017-182-0200 |
| AT17-225-0200 | 1017-225-0200 |
| AT17-226-0200 | 1017-226-0200 |
| AT17-227-0200 | 1017-227-0200 |
| AT17-228-0200 | 1017-228-0200 |
| AT17-229-0200 | 1017-229-0200 |
| AT17-230-0200 | 1017-230-0200 |
| AT17-325-0200 | 1017-325-0200 |
| AT17-326-0200 | 1017-326-0200 |
| AT17-327-0200 | 1017-327-0200 |
| AT17-328-0200 | 1017-328-0200 |
| AT17-329-0200 | 1017-329-0200 |
| AT17-330-0200 | 1017-330-0200 |




## NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS ARE IN INCHES[mm].
2. FORCES ARE IN POUNDS[LBS] AND NEWTONS[N].
3. "XX"= PLATING SUFFIX. SEE INDIVIDUAL CONTACT DRAWING .
4. WIRE STRIP LENGTH: 0.175±0.025[4.45±0.64]. BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE.
5. USE A BLADE MICROMETER (0.100[2.54] MIN SPINDLE AND 0.060/0.010[1.50/0.040] ANVIL) TO MEASURE THE CONDUCTOR CRIMP. SEE SECTION A-A
6. CRIMP TENSILE STRENGTH IS DETERMINED AT A PULL RATE SPEED OF 1.00 INCH[25.4] PER MINUTE. INSULATION WINGS ARE REMOVED FOR TEST. ACTUAL CRIMP TENSILE STRENGTH DEPENDS ON WIRE/CONDUCTOR SIZE. VALUES ON THIS SPECIFICATION ARE FOR REFERENCE ONLY.
7. INSULATION DIAMETER RANGE IS DETERMINED BY CONNECTOR AND IT'S WIRE SEAL SIZE. SEE CONNECTOR DRAWING FOR INSULATION RANGE.
8. INSULATION CRIMP DIAMETER SHOULD BE THE EQUAL OR LESS THAN THE DIAMETER OF THE WIRE INSULATION (HARD OR TEFLON INSULATION MAY BE AN EXCEPTION). INSULATION CRIMP SHALL NOT AFFECT REMOVAL TOOL PERFORMANCE AND SHALL NOT DAMAGE CONNECTOR GROMMET SEAL.
9. CONDUCTOR TYPE ARE PER SAEJ1128(AWG) AND ISO 6722(METRIC)
10. FOR CONTACT MATERIAL AND PERFORMANCE DATA, SEE DRAWING S2-15217.
11. REFER TO S2-15223 AND S2-15224 AND CROSS REFERENCE CHARTS FOR CRIMP TOOL DATA.

ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|
| | MATERIALS LIST | | |

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.
2) Tolerances are as follows:
1 PL DEC ±0.05 | Fractions ±1/64
2 PL DEC ±0.01 | Angles ±1°
3 PL DEC ±0.005
3) Fabrication Standards Per: S5-20020
4) Note Reference = (4)
U

MATERIAL SPECIFICATIONS: N/A

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | POTER | 4/7/09 |
| CHECKED: | FORCE | 6/8/09 |
| ENGINEER: | BERNUM | |
| APPROVAL: | BERNUM | 6/8/09 |
| CUSTOMER: | | |



SINE Systems Corporation
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44724 Morley Drive
Clinton Township, MI 48036

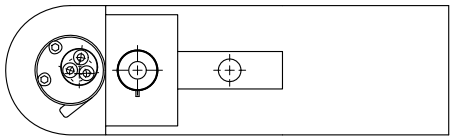
CRIMP DATA, STAMPED CONTACTS FOR CRIMPER MFX-3953

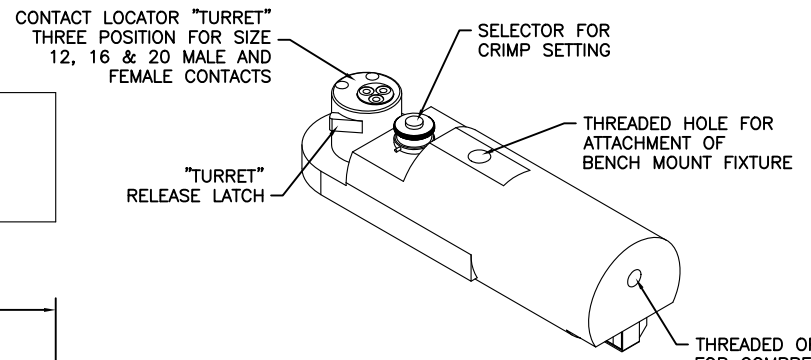
| SIZE | FSCM NO. | DWG NO: | REVISION |
|---|---|---|---|
| C | 1GK44 | S2-15221 | A1 |

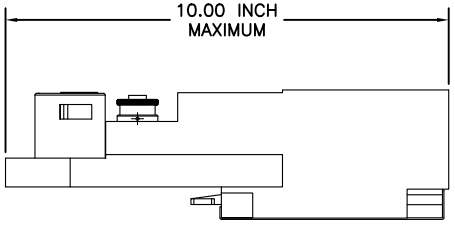
SCALE: NONE | S2-15221 | SHEET 1 OF 1

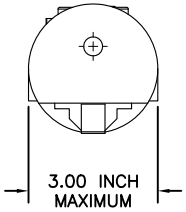
TITLE: CRIMP DATA, STAMPED CONTACTS
DWG NO: S2-15221
REV: A1
SH: 1
OF: 1

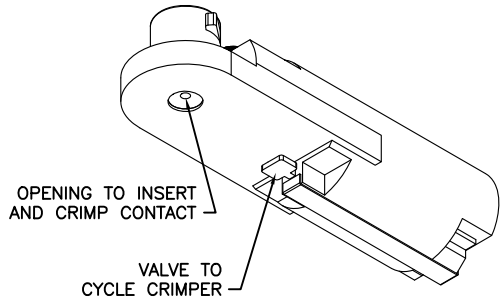
| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| REV | ZONE | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | - | RELEASE NUMBER 016571 | 6/12/09 | B.D.B. | M.R.F. |





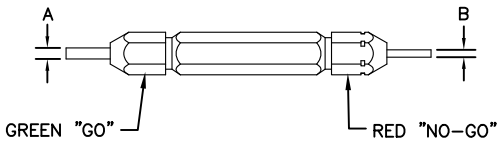




NOTES:
1. THE CA–5E12 IS A COMPRESSED AIR OPERATED HAND CRIMPER FOR ELECTRICAL CONTACTS. IT IS ADJUSTABLE TO 3 CONTACT SIZES (12, 16 & 20) AND 8 INDENTER CRIMP POSITIONS FOR DIFFERENT WIRE SIZES (12AWG THRU 26 AWG).
2. 80–120 PSI COMPRESSED AIR.
3. WEIGHT: 3.1 LBS
4. SELECTING CONTACT SIZE: PRESS THE RELEASE LATCH ON SIDE OF THE CONTACT LOCATOR "TURRET". ROTATE TO THE DESIRED CONTACT SIZE. THE TOP OF THE "TURRET" IS EMBOSSED WITH THE CONTACT SIZES.
5. SELECTING WIRE SIZE: GRASP THE SELECTOR AND ROTATE TO THE DESIRED NUMBER.

| CONTACT SIZE | LOCATOR "TURRET" POSITION COLOR | SELECTOR NUMBER | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 26 AWG WIRE | 24 AWG WIRE | 22 AWG WIRE | 20 AWG WIRE | 18 AWG WIRE | 16 AWG WIRE | 14 AWG WIRE | 12 AWG WIRE |
| 20–20 | RED | 1 | 2 | 3 | 4 | | | | |
| 16–22 | BLUE | 4 | 5 | 6 | | | | | |
| 16–20 | BLUE | 1 | 2 | 3 | 4 | | | | |
| 16–16 | BLUE | | | | 4 | 5 | 6 | | |
| 12–16 | YELLOW | | | | 4 | 5 | 6 | | |
| 12–12 | YELLOW | | | | | | | 7 | 8 |

| GAGE PART NO. | A GO DIA. | B NO–GO DIA. | SELECTOR NUMBER |
|---|---|---|---|
| G125 | .0390 | .0440 | 4 |

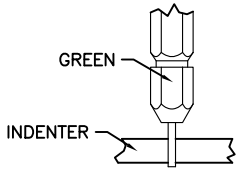



## GAGING INSTRUCTIONS

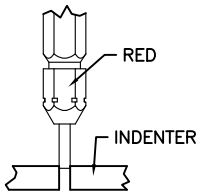
CAUTION!
DO NOT CRIMP GAGE!

"GO" GAGING: OPERATE TOOL TO FULLY CLOSED POSITION. INSERT "GO" GAGE END AS SHOWN. GAGE MUST PASS FREELY BETWEEN INDENTER TIPS.

"NO–GO" GAGING: OPERATE TOOL TO FULLY CLOSED POSITION. INSERT "NO–GO" GAGE END AS SHOWN. THE "NO–GO" MAY PARTIALLY ENTER THE INDENTER OPRNING, BUT MUST NOT PASS COMPLETELY THROUGHT THE OPENING.




| SELECTOR NUMBER | A ±.0001 GO DIA. | B ±.0001 NO–GO DIA. |
|---|---|---|
| 1 | .0280 | .0330 |
| 2 | .0320 | .0370 |
| 3 | .0360 | .0410 |
| 4 | .0390 | .0440 |
| 5 | .0450 | .0500 |
| 6 | .0520 | .0570 |
| 7 | .0590 | .0640 |
| 8 | .0680 | .0730 |




| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|
| | MATERIALS LIST | | |

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.
2) Tolerances are as follows:
1 PL DEC ±0.05 | Fractions ±1/64
2 PL DEC ±0.01 | Angles ±1°
3 PL DEC ±0.005
3) Fabrication Standards Per: S5–20020
4) Note Reference =
MATERIAL SPECIFICATIONS: N/A
PROCESS SPECIFICATIONS:
NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | BERNUM | 6/2/09 |
| CHECKED: | FORCE | 6/3/09 |
| ENGINEER: | BERNUM | |
| APPROVAL: | BERNUM | 6/3/09 |
| CUSTOMER: | | |

U



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Clinton Township, MI 48036

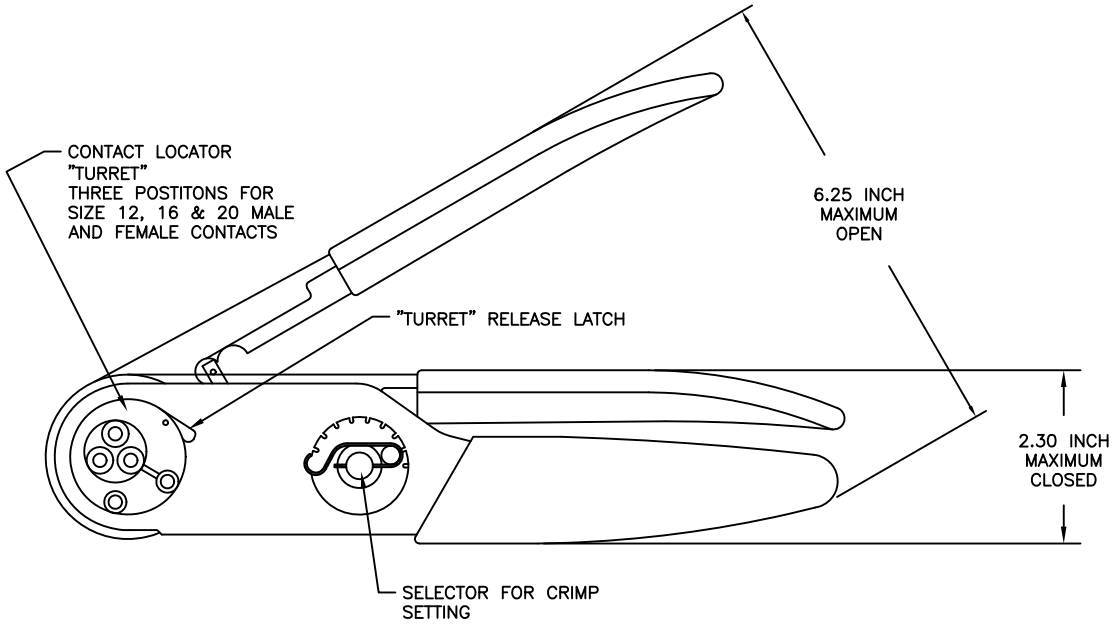
INSTRUCTIONS FOR CA–5E12 CRIMPER, PNEUMATIC

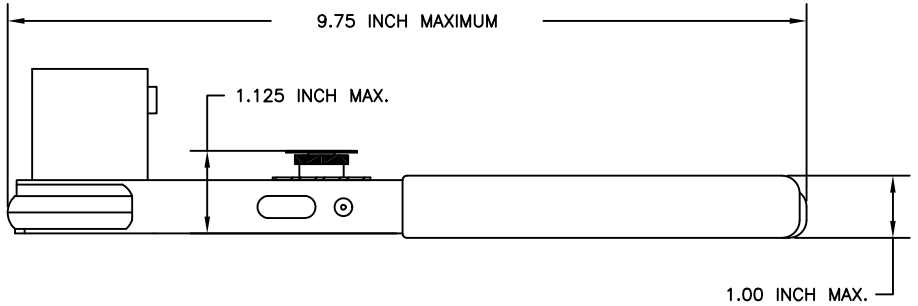
| SIZE | FSCM NO. | DWG NO: | REVISION |
|---|---|---|---|
| C | 1GK44 | S2–15220 | A1 |

SCALE: NONE | S2–15220 | SHEET 1 OF 1

TITLE: CRIMPER, PNEUMATIC, CA–5E12
DWG NO: S2–15220
REV: A1
SH: 1
OF: 1

| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| REV | ZONE | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | – | – | RELEASE NUMBER 016571 | 6/12/09 | B.D.B. | M.R.F. |

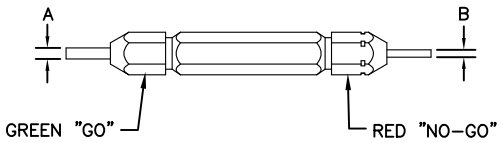



NOTES:
1. THE CA–5D12 IS A HAND OPERATED CRIMPER FOR ELECTRICAL CONTACTS. IT IS ADJUSTABLE TO 3 CONTACT SIZES (12, 16 & 20) AND 8 INDENTER CRIMP POSITIONS FOR DIFFERENT WIRE SIZES (12AWG THRU 26 AWG).
2. WEIGHT: 1.64 LBS
3. SELECTING CONTACT SIZE: PRESS THE RELEASE LATCH ON SIDE OF THE CONTACT LOCATOR "TURRET". ROTATE TO THE DESIRED CONTACT SIZE. THE TOP OF THE "TURRET" IS EMBOSSED WITH THE CONTACT SIZES.
4. SELECTING WIRE SIZE: REMOVE THE LOCKING CLIP. GRASP THE SELECTOR AND ROTATE TO THE DESIRED NUMBER.

| CONTACT SIZE | LOCATOR "TURRET" POSITION COLOR | SELECTOR NUMBER | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 26 AWG WIRE | 24 AWG WIRE | 22 AWG WIRE | 20 AWG WIRE | 18 AWG WIRE | 16 AWG WIRE | 14 AWG WIRE | 12 AWG WIRE |
| 20–20 | RED | 1 | 2 | 3 | 4 | | | | |
| 16–22 | BLUE | 4 | 5 | 6 | | | | | |
| 16–20 | BLUE | 1 | 2 | 3 | 4 | | | | |
| 16–16 | BLUE | | | | 4 | 5 | 6 | | |
| 12–16 | YELLOW | | | | 4 | 5 | 6 | | |
| 12–12 | YELLOW | | | | | | | 7 | 8 |

| GAGE PART NO. | A GO DIA. | B NO–GO DIA. | SELECTOR NUMBER |
|---|---|---|---|
| G125 | .0390 | .0440 | 4 |

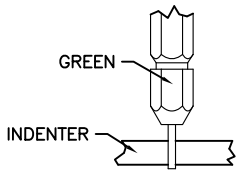



## GAGING INSTRUCTIONS

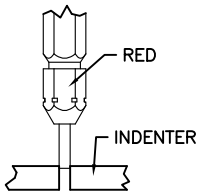
CAUTION!
DO NOT CRIMP GAGE!

"GO" GAGING: OPERATE TOOL TO FULLY CLOSED POSITION. INSERT "GO" GAGE END AS SHOWN. GAGE MUST PASS FREELY BETWEEN INDENTER TIPS.

"NO–GO" GAGING: OPERATE TOOL TO FULLY CLOSED POSITION. INSERT "NO–GO" GAGE END AS SHOWN. THE "NO–GO" MAY PARTIALLY ENTER THE INDENTER OPRNING, BUT MUST NOT PASS COMPLETELY THROUGHT THE OPENING.




| SELECTOR NUMBER | A ±.0001 GO DIA. | B ±.0001 NO–GO DIA. |
|---|---|---|
| 1 | .0280 | .0330 |
| 2 | .0320 | .0370 |
| 3 | .0360 | .0410 |
| 4 | .0390 | .0440 |
| 5 | .0450 | .0500 |
| 6 | .0520 | .0570 |
| 7 | .0590 | .0640 |
| 8 | .0680 | .0730 |




| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|
| MATERIALS LIST | | | |

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.
2) Tolerances are as follows:
1 PL DEC ±0.05 | Fractions ±1/64
2 PL DEC ±0.01 | Angles ±1°
3 PL DEC ±0.005
3) Fabrication Standards Per: S5–20020
4) Note Reference = A
MATERIAL SPECIFICATIONS: N/A
PROCESS SPECIFICATIONS:
NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | BERNUM | 6/3/09 |
| CHECKED: | FORCE | 6/3/09 |
| ENGINEER: | BERNUM | |
| APPROVAL: | BERNUM | 6/3/09 |
| CUSTOMER: | | |

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SINE Systems Corporation
A Subsidiary of Amphenol Corporation
44724 Morley Drive
Clinton Township, MI 48036


INSTRUCTIONS FOR CA–5D12
CRIMPER, HAND, MACHINED CONTACTS

| SIZE | FSCM NO. | DWG NO: | REVISION |
|---|---|---|---|
| C | 1GK44 | S2–15219 | A1 |

SCALE: NONE | S2–15219 | SHEET 1 OF 1

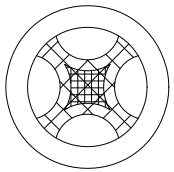
TITLE: CRIMPER, HAND, CA–5D12
DWG NO: S2–15219
REV: A1
SH: 1
OF: 1

| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| REV | ZONE | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | – | – | RELEASE NUMBER 016571 | 6/12/09 | B.D.B. | M.R.F. |

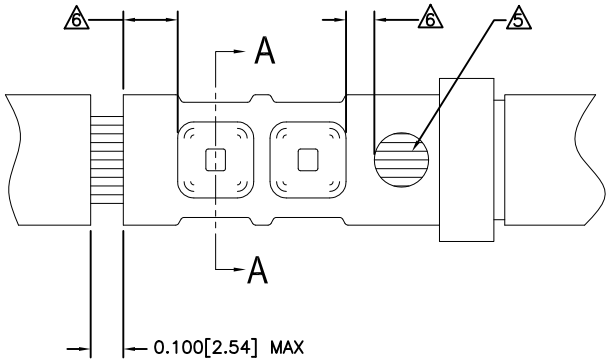
| CONTACT P/N | SIZE TYPE | WIRE SIZE △7 | REF. ONLY TENSILE LBS[N] △3 |
|---|---|---|---|
| AT60–202–16XX<br>AT62–201–16XX<br>△2 | 16PIN<br>16SOC | 1.5mm²<br>16AWG<br>1.0mm²<br>18AWG<br>0.75mm²<br>20AWG<br>0.50mm² | 35[156]<br>25[111]<br>20[89 ] |

| RECOMMENDED STRIP LENGTH | |
|---|---|
| CONTACT SIZE | STRIP LENGTH INCH[MM] |
| 16 | 0.250–0.312[6.35–7.92] |

| CRIMP TOOLING | | | | | | |
|---|---|---|---|---|---|---|
| CONTACT SIZE | CRIMP TOOL PART NUMBER | CONTACT LOCATOR "TURRET" POSITION | WIRE SELECTOR NUMBER | GO GAGE INCH[MM] | "NOGO" GAGE INCH[MM] | REMARKS |
| 16 | CA–5D12<br>CA–5E12 | BLUE | 6 | 0.052[1.32] | 0.057[1.45] | |
| 16 | CA–5D12<br>CA–5E12 | BLUE | 4 | 0.039[.991] | 0.044[1.12] | SIZE 16 WITH 20 AWG WIRE |
| | | | | △1 △9 | △1 △9 | |



SECTION A–A
CRIMP CROSS–SECTION




## NOTES: UNLESS OTHERWISE SPECIFIED

△1 MINIMUM +/–0.0005 [0.013] TOLERANCE STEEL GAGE PINS. DO NOT CRIMP GAGE PINS. CLOSE DIE, THEN USE GAGE PINS.
△2 WHEN XX=31, CONTACT PLATING IS GOLD
WHEN XX=141, CONTACT PLATING IS NICKEL
△3 PULL RATE OF 1.0 IN [25.4] PER MINUTE. ACTUAL STRENGTH DEPENDS ON WIRE SIZE.
4. FOR CONTACT PERFORMANCE, MATERIAL SPECIFICATIONS AND APPLICATION DETAILS, SEE DRAWING S2–15217.
△5 CONDUCTOR STRANDS MUST BE VISIBLE THRU THE INSPECTION HOLE PRIOR TO CRIMP.
△6 PROPER CRIMP TOOLING WILL PRODUCE A CRIMP CENTERED BETWEEN THE INSPECTION HOLE AND CRIMP BARREL END.
△7 WIRE SIZES PER SAE JI128 AND JI560 [DIN 72551–6]
8. REFERENCE INSTRUCTION MANUALS S2–15219 AND S2–15220 FOR CA–5D12 AND CA–5E12 HAND AND PNUEMATIC CRIMPER.
△9 THE CRIMP HEIGHT DIMENSION AFTER CRIMPING MAY VARY FROM THE VALUES LISTED FOR THE "GO–NOGO" PINS.

| PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|
| QUANTITY | MATERIALS LIST | |

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.
2) Tolerances are as follows:
1 PL DEC ±0.05 | Fractions ±1/64
2 PL DEC ±0.01 | Angles ±1°
3 PL DEC ±0.005
3) Fabrication Standards Per: S5–20020
4) Note Reference = △
U

MATERIAL SPECIFICATIONS: N/A

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | BERNUM | 6/3/09 |
| CHECKED: | FORCE | 6/3/09 |
| ENGINEER: | BERNUM | |
| APPROVAL: | BERNUM | 6/3/09 |
| CUSTOMER: | | |



**SINE** Systems Corporation
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44724 Morley Drive
Clinton Township, MI 48036

CRIMP INFORMATION
SOLID MACHINED CONTACTS

| SIZE | FSCM NO. | DWG NO: | REVISION |
|---|---|---|---|
| C | 1GK44 | S2–15218 | A1 |

SCALE: NONE | S2–15218 | SHEET 1 OF 1

TITLE: CRIMP INFORMATION SOLID CONTACTS
DWG NO: S2–15218
REV: A1
SH: 1
OF: 1

| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| REV | ZONE | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | – | – | RELEASE NUMBER 016571 | 6/12/09 | B.D.B. | M.R.F. |

| SOLID CONTACT SIZE | SOLID CONTACT PART NUMBERS | | WIRE SIZE AWG($mm^2$) ④ | RECOMMENDED STRIP LENGTH INCH [mm] | MIN CONTACT RETENTION LBS [N] ③ | REF CRIMP TENSILE LBS [N] ③ | MAX RATED AMPS@125°C CONTINUOUS ⑤⑦ |
|---|---|---|---|---|---|---|---|
| | PIN | SOCKET | | | | | |
| 16 | AT60-202-16** | AT62-201-16** | 16-20 [1.5-0.5] | 0.25-0.31 [6.35-7.92] | 25 [111] | 35-20 [156-89] | 13 |

| S&F CONTACT SIZE | STAMPED CONTACT PART NUMBERS | | WIRE SIZE AWG [$mm^2$] | WIRE INSULATION O.D. RANGE | RECOMMENDED STRIP LENGTH INCH [mm] | MIN CONTACT RETENTION LBS [N] | REF CRIMP TENSILE LBS [N] | MAX RATED AMPS@125°C CONTINUOUS |
|---|---|---|---|---|---|---|---|---|
| | PIN | SOCKET | | | | | | |
| 16 | AT60-14-01** | AT62-14-01** | 14-16 [2.0-1.0] | .100 - .150 [2.54 - 3.81] | 0.150-0.200 [3.81-5.08] | 25 [111] | 25 [111] | 13 |
| 16 | AT60-16-01** | AT62-16-01** | 16-18 [1.0-0.75] | .075 - .100 [1.90 - 2.54] | 0.150-0.200 [3.81-5.08] | 25 [111] | 25 [111] | 13 |
| 16 | AT60-16-06** | AT62-16-06** | 18-20 [0.75-0.50] | .055 -.095 [1.40 - 2.41] | 0.150-0.200 [3.81-5.08] | 25 [111] | 25-15 [111-67] | 13 |

⑦

| CONTACT RESISTANCE STRENGTH (LESS DROP THROUGH WIRE) | | | |
|---|---|---|---|
| WIRE AWG | TEST CURRENT | MILLIVOLT DROP SOLID | MILLIVOLT DROP S&F |
| 14 | 18 | 60 | 100 |
| 16 | 13 | 60 | 100 |
| 18 | 10 | 60 | 100 |
| 20 | 7.5 | 60 | 100 |

⑦

| MATERIAL SPECIFICATION AND PLATING ** CODES |
|---|
| PIN: COPPER ALLOY<br>SOCKET: COPPER ALLOY WITH STAINLESS STEEL SLEEVE |
| SOLID MACHINED CONTACT PLATING OPTIONS: ⑥<br>31= GOLD*<br>141= NICKEL |
| STAMPED CONTACT PLATING OPTIONS: ⑥<br>22= NICKEL<br>44= GOLD*<br>88= SELECTIVE GOLD* |
| GOLD*= PLATING IS AVAILABLE (RECOMMENDED) FOR ONLY(<5V) CIRCUIT APPLICATIONS<br>MATERIALS AND PLATINGS ARE RoHS COMPLIANT |

## NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS ARE INCHES[MM].
2. ALL FORCES ARE IN "LBS"(POUNDS) AND "[N]" (NEWTONS).
3. ③ CONTACT RETENTION TEST PULL RATE SHALL BE 1.0 INCH[25.4] PER MINUTE MAXIMUM. WIRE SIZE WILL AFFECT THE TRUE STRENGTH OF THE CRIMP.
4. ④ WIRE SIZES AND INSULATION RANGES ARE FOR REFERENCE ONLY. THE ACTUAL INSULATION RANGE DEPENDS ON CONNECTOR GROMMET SEALING SIZE.

SEE SPECIFICATIONS LISTED BELOW FOR INDIVIDUAL CRIMP INFORMATION:

| "SOLID" CONTACTS | SIZE |
|---|---|
| S2-15218 | 16 |

| "STAMPED" CONTACTS | SIZE |
|---|---|
| S2-15222 | 16 |
| S2-15221 | 16/20 |

5. ⑤ MAXIMUM RATED CURRENT IN CHART DEPENDS ON CONTACT SIZE. ACTUAL RATED CURRENT DEPENDS ON WIRE SIZE.
6. ⑥ CONTACT FACTORY FOR ALL AVAILABLE PLATING ON SPECIFIC CONTACTS.
7. ⑦ AMPHENOL SINE PERFORMANCE SPECIFICATIONS REQUIRE THE USE OF AMPHENOL SINE APPROVED TOOLING.

| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|---|---|---|---|
| | MATERIALS LIST | | |

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.
2) Tolerances are as follows:
1 PL DEC ±0.05 | Fractions ±1/64
2 PL DEC ±0.01 | Angles ±1°
3 PL DEC ±0.005
3) Fabrication Standards Per: S5-20020
4) Note Reference = ④
U

MATERIAL SPECIFICATIONS: N/A

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | POTER | 4/5/09 |
| CHECKED: | FORCE | 6/3/09 |
| ENGINEER: | BERNUM | |
| APPROVAL: | BERNUM | 6/3/09 |
| CUSTOMER: | | |



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Clinton Township, MI 48036

GENERAL DATA, CONTACTS STAMPED AND FORMED / MACHINED

| SIZE | FSCM NO. | DWG NO: | REVISION |
|---|---|---|---|
| C | 1GK44 | S2-15217 | A1 |

SCALE: NONE | S2-15217 | SHEET 1 OF 1

TITLE: CONTACT DATA, GENERAL
DWG NO: S2-15217
REV: A1
SH: 1
OF: 1

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

*Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.*

*С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров*

*Мы предлагаем:*

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

*В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.*

*Конструкторский отдел помогает осуществить:*

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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