

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)

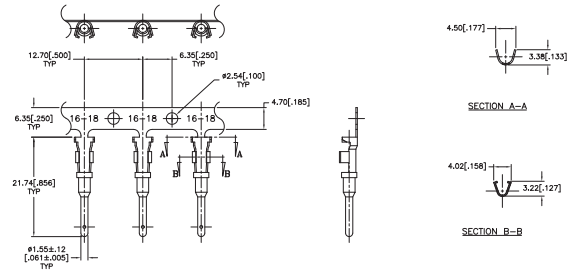


STAMPED AND FORMED CONTACTS, PG 2 of 2

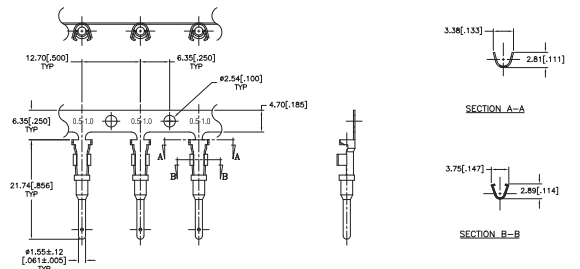
Click on [blue underlined part numbers](#) to be taken to their spec sheets.

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)



SOLID/MACHINED CONTACTS

Click on [blue underlined part numbers](#) to be taken to their spec sheets.

OPTIONS

MILITARY-STYLE

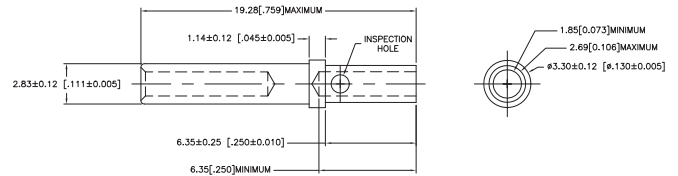
PART NUMBER: [AT60-202-16XX](#)
DESCRIPTION: CONTACT, PIN, SOLID MACHINED, SIZE 16
MATERIAL: COPPER ALLOY
PLATING SUFFIX CODE:
 XX=141 NICKEL PLATING
 XX=31 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP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



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

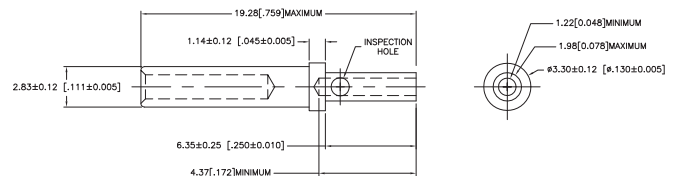


ROCKSOLID™ CONTACTS

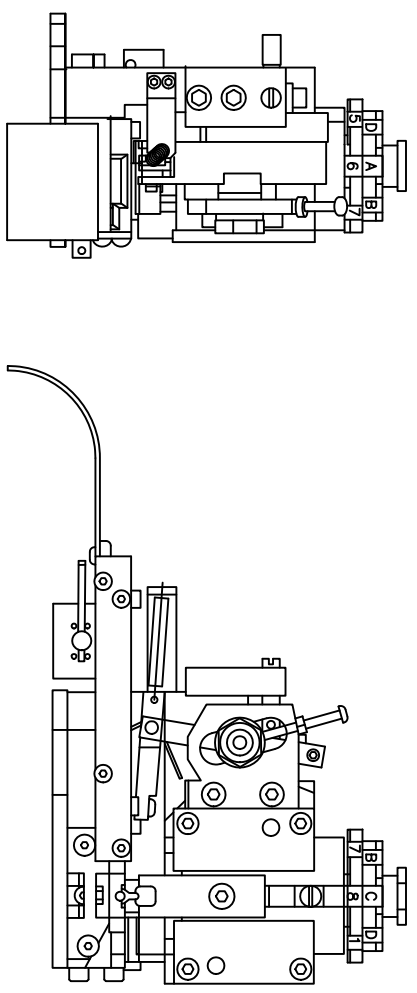
PART NUMBER: [65-54942-16](#)
DESCRIPTION: CONTACT, SOCKET, ROCKSOLID, SIZE 16
AWG RANGE: 16AWG
MATERIAL: COPPER ALLOY
PLATING: GOLD
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218



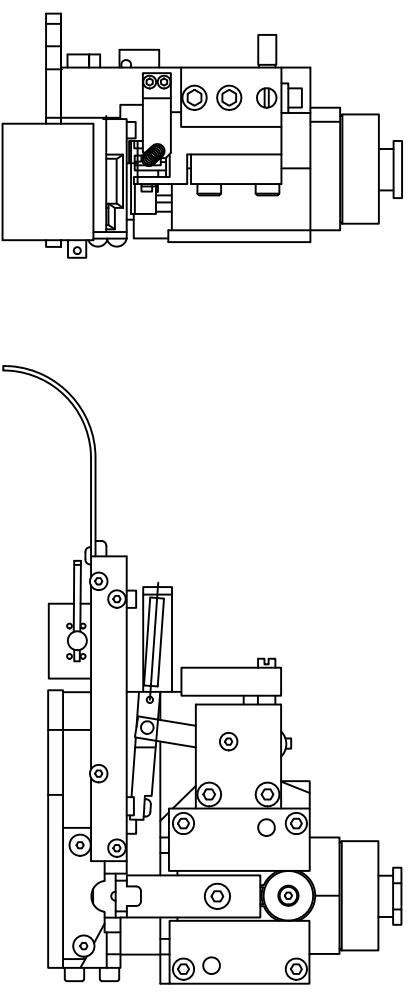
PART NUMBER: [65-54942-20](#)
DESCRIPTION: CONTACT, SOCKET, ROCKSOLID, SIZE 16
AWG RANGE: 20AWG
MATERIAL: COPPER ALLOY
PLATING: GOLD
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218



REVOLUTIONS		DESCRIPTION	DATE	BY	APPR
REV	ZONE	ECO	RELEASE NUMBER	B.D.B.	M.R.F.
A1	-	-	016571	6/12/08	



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. HOLE ±0.010			
2. PL. DIM. ±0.015			
3. FRACTIONAL DIMENSIONS ±1/64			
4) Finish: SS-20020			
APPROVAL: <input type="checkbox"/> U			
MATERIAL SPECIFICATIONS:			
N/A			
PROCESS SPECIFICATIONS:			
N/A			
NEXT ASSY:			
SIGNATURES		DATE	
DESIGNED: BERNUW	6/9/09		
CHECKED: TONCE	6/9/09		
ENGINEER: BERNUW			
APPROVAL: BERNUW	6/9/09		
CUSTOMER:			
CRIMPER INFORMATION			
MFX-3950 & MFX-3953			
SCALE: NONE			
SHEET 1 OF 1			

SINE Systems Corporation	
A Subsidiary of Amphenol Corporation	
44724 Mowley Drive	
Clinton Township, MI 48036	
CRIMPER INFORMATION	
MFX-3950 & MFX-3953	
SCALE: NONE	
SHEET 1 OF 1	

SIZE	10K44
SCALE	NONE
SHEET	1 OF 1

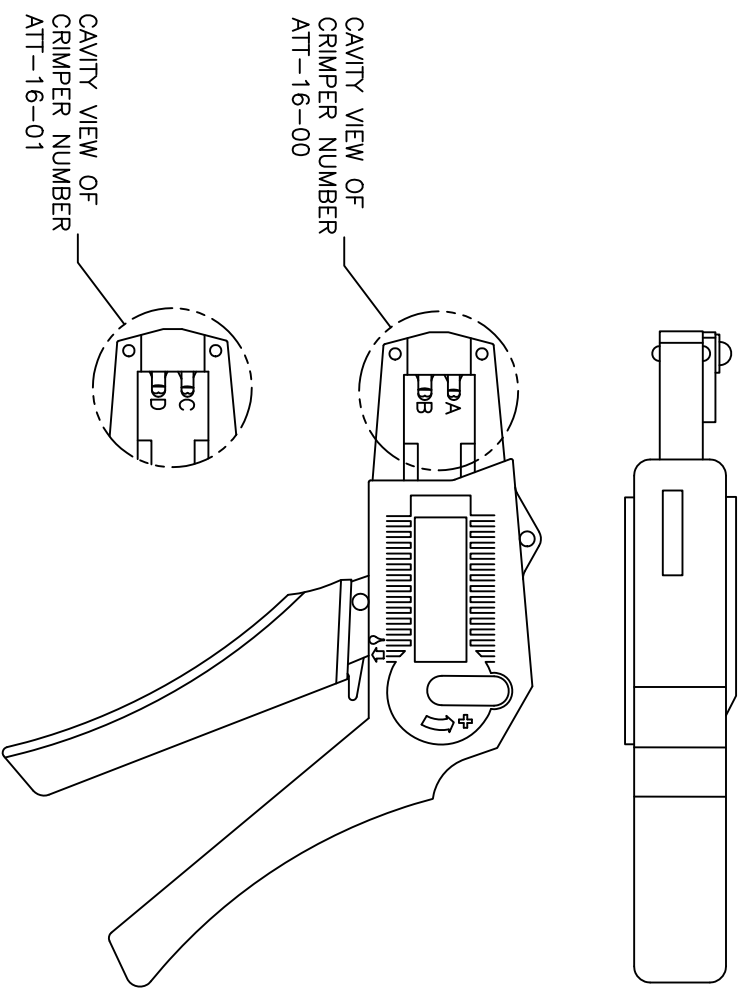
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NUMBER 016571	6/12/09	B.D.B.	M.R.F.

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

CONTACT P/N:	INSULATION ϕ	CAVITY	WIRE SIZE
AT60-16-01**	.075 - .140	B	1.5mm ²
AT62-16-01**	[1.91 - 3.56]	A	16AWG
		A	1.0mm ²
AT60-14-01**	.095 - .150	B	14AWG
AT62-14-01**	[2.41 - 3.81]	B	2.0mm ²
		B	1.5mm ²
		A	1.5mm ²
		A	16AWG
		A	1.0mm ²
AT60-16-06**	.055 - .100	A	16AWG
AT62-16-06**	[1.40 - 2.54]	A	1.0mm ²

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

CONTACT P/N:	INSULATION ϕ	CAVITY	WIRE SIZE
AT60-16-01**	.075 - .140	D	18AWG
AT62-16-01**	[1.91 - 3.56]	D	.75mm ²
AT60-16-06**	.055 - .100	D	18AWG
AT62-16-06**	[1.40 - 2.54]	D	.75mm ²
		C	.50mm ²



CAVITY VIEW OF
CRIMPER NUMBER
ATT-16-00

CAVITY VIEW OF
CRIMPER NUMBER
ATT-16-01

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

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

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
MATERIALS LIST			
SINE Systems Corporation A Subsidiary of Amphenol Corporation 44724 Morley Drive Clifton Township, NJ 08036			
INSTRUCTIONS: ATT-16-00 & 01 CRIMPER, HAND, STAMPED CONTACTS			
SIZE	FSC#	NO/DWG NO:	REVISION
B	16K44	S2-15223	A1
SCALE	NONE	S2-15223	SHEET 1 OF 1

SIGNATURES	DATE
DESIGNED: BERNUW	6/8/09
CHECKED: FORCE	6/8/09
ENGINEER: BERNUW	
APPROVAL: BERNUW	6/8/09

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
1) All dimensions are in inches.	1) All dimensions are in inches.
2) Tolerances are as follows:	2) Tolerances are as follows:
3) Fin. DEC 3000	3) Fin. DEC 3000
4) Hole Reference = A	4) Hole Reference = A

PROCESS SPECIFICATIONS	PROCESS SPECIFICATIONS
N/A	N/A

THE USE OF THIS DOCUMENT IS UNLIMITED. DESIGN FEATURES, SPECIFIC DATA SHOWN, METHOD AND THE MANUFACTURING VARIATIONS DOCUMENTS REFERENCED HEREON MAY CHANGE WITHOUT NOTICE.	THE USE OF THIS DOCUMENT IS UNLIMITED. DESIGN FEATURES, SPECIFIC DATA SHOWN, METHOD AND THE MANUFACTURING VARIATIONS DOCUMENTS REFERENCED HEREON MAY CHANGE WITHOUT NOTICE.
DEUTSCH INDUSTRIAL PRODUCTS	DEUTSCH INDUSTRIAL PRODUCTS

REV: A1	DWG NO: S2-15223	INSTRUMENTS, CRIMPER, HAND
1	1	1

REVISIONS						
REV	ZONE	ECO	DESCRIPTION	DATE	BY	APP
A1	-	-	RELEASE NUMBER 016871	6/12/09	B.D.B.	M.F.F.

STAMPED CONTACT PART NUMBER 106=PIN 106=SOCKET	SIZE	CONDUCTOR WIRE SIZE	CRIMP HEIGHT	CRIMP WIDTH	CONDUCTOR PUNCH NUMBER	CONDUCTOR ANVIL NUMBER	CRIMP TENSILE REFERENCE
A780-14-011x	16	14 AWG	0.055(1.40)	0.084(2.39)	AT17-002-0200	AT17-101-0200	28(111)
A782-14-011x	16	16 AWG	0.059(1.27)	0.084(2.39)	AT17-002-0200	AT17-101-0200	28(111)
A780-16-011x	16	14 AWG	0.055(1.40)	0.094(2.39)	AT17-003-0200	AT17-103-0200	28(111)
A782-16-011x	16	16 AWG	0.059(1.27)	0.094(2.39)	AT17-003-0200	AT17-103-0200	28(111)
A780-16-06x	16	18 AWG	0.048(1.22)	0.084(2.39)			
A782-16-06x	16	18 AWG	0.048(1.22)	0.084(2.39)			
A780-16-10x	16	20 AWG	0.048(1.22)	0.079(2.01)			
A782-16-10x	16	20 AWG	0.048(1.22)	0.079(2.01)			

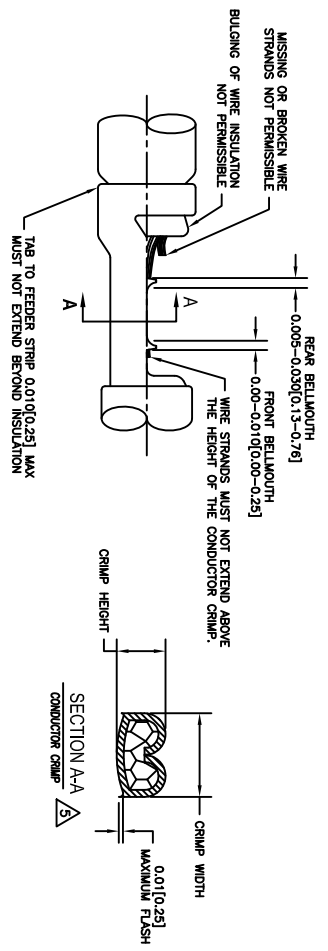
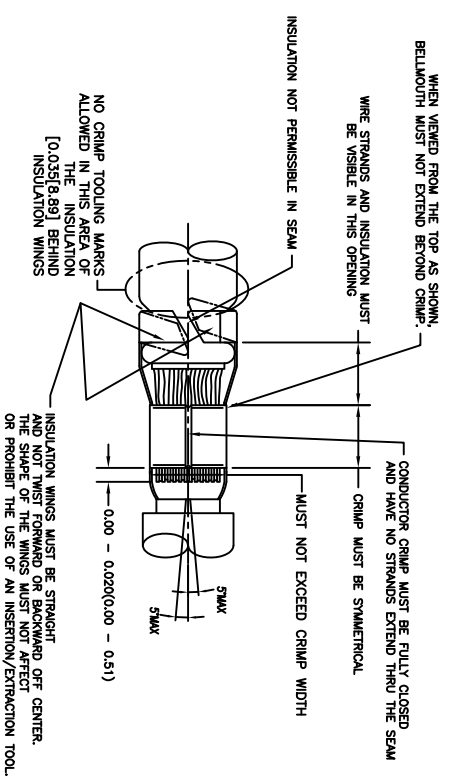
CROSS REFERENCE

SINE PART NUMBER	DEUTSCH PART NUMBER
MFX-3950	DC116-02-00
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

INSULATION DIAMETER RANGE	INSULATION PUNCH NUMBER	INSULATION ANVIL NUMBER
0.120-0.150	AT17-210-0200	AT17-310-0200
0.105-0.125	AT17-211-0200	AT17-311-0200
0.085-0.111	AT17-213-0200	AT17-313-0200
0.075-0.105	AT17-214-0200	AT17-314-0200
0.065-0.094	AT17-217-0200	AT17-317-0200
0.050-0.075	AT17-218-0200	AT17-318-0200

NOTES: UNLESS OTHERWISE SPECIFIED

- ALL DIMENSIONS ARE IN INCHES(mm).
- FORCES ARE IN POUNDS(LBS) AND NEWTONS(N).
- "X"= PLATING SUFFIX. SEE INDIVIDUAL CONTACT DRAWING.
- WIRE STRIP LENGTH: 0.175±0.02(4.43±0.54). BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE.
- USE A BLADE MICRO-METER (0.100(2.54) MIN SPACING AND 0.060(0.010)(1.50(0.040) ANVIL) TO MEASURE THE CONDUCTOR CRIMP. SEE SECTION AA.
- CRIMP TENSILE STRENGTH IS DETERMINED AT A PULL RATE SPEED OF 1.00 INCH(2.54) 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.
- INSULATION DIAMETER RANGE IS DETERMINED BY CONNECTOR AND ITS WIRE SEAL SIZE. SEE CONNECTOR DRAWING FOR INSULATION RANGE.
- 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.
- CONDUCTOR TYPE ARE PER SAE(1128(AWG)) AND ISO 6722(METRIC)
- FOR CONTACT MATERIAL AND PERFORMANCE DATA, SEE DRAWING S2-15217.
- 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	MATERIALS LIST	DESCRIPTION	ITEM																		
1	MFX-3950	1. 98 5000 1 2. 98 5001 1 3. 98 5002 1 4. 98 5003 1	SINE Systems Corporation A Subsidiary of Amphenol Corporation 44724 Moley Drive Clinton Township, MI 48036																			
<table border="1"> <tr> <td>UNLESS OTHERWISE SPECIFIED</td> <td>SIGNATURES</td> <td>DATE</td> </tr> <tr> <td>1) All dimensions are in inches.</td> <td>DRIVER: POTER</td> <td>4/7/09</td> </tr> <tr> <td>2) Plating is as shown.</td> <td>DESIGNER: RONE</td> <td>6/8/09</td> </tr> <tr> <td>3) Plating is as shown.</td> <td>ENGINEER: BERLIN</td> <td>6/8/09</td> </tr> <tr> <td>4) Plating is as shown.</td> <td>APPROVAL: BERLIN</td> <td>6/8/09</td> </tr> <tr> <td>5) Production Standard Per: U</td> <td>CUSTOMER:</td> <td></td> </tr> </table>					UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	1) All dimensions are in inches.	DRIVER: POTER	4/7/09	2) Plating is as shown.	DESIGNER: RONE	6/8/09	3) Plating is as shown.	ENGINEER: BERLIN	6/8/09	4) Plating is as shown.	APPROVAL: BERLIN	6/8/09	5) Production Standard Per: U	CUSTOMER:	
UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE																				
1) All dimensions are in inches.	DRIVER: POTER	4/7/09																				
2) Plating is as shown.	DESIGNER: RONE	6/8/09																				
3) Plating is as shown.	ENGINEER: BERLIN	6/8/09																				
4) Plating is as shown.	APPROVAL: BERLIN	6/8/09																				
5) Production Standard Per: U	CUSTOMER:																					
<table border="1"> <tr> <td>PROCESS SPECIFICATIONS:</td> <td>THE USE OF THIS DRAWING IS</td> </tr> <tr> <td></td> <td>SPECIFICATIONS, AND PERFORMANCE</td> </tr> <tr> <td></td> <td>DATA ARE THE PROPERTY OF AMPHENOL</td> </tr> <tr> <td></td> <td>AND ARE NOT TO BE REPRODUCED</td> </tr> <tr> <td></td> <td>OR TRANSMITTED IN ANY FORM OR</td> </tr> <tr> <td></td> <td>MANNER WITHOUT THE WRITTEN</td> </tr> <tr> <td></td> <td>CONSENT OF AMPHENOL. COPY ALL</td> </tr> <tr> <td></td> <td>DOCUMENTS RETURNED HEREON MAY</td> </tr> <tr> <td></td> <td>CONTAIN UNCLASSIFIED INFORMATION</td> </tr> </table>					PROCESS SPECIFICATIONS:	THE USE OF THIS DRAWING IS		SPECIFICATIONS, AND PERFORMANCE		DATA ARE THE PROPERTY OF AMPHENOL		AND ARE NOT TO BE REPRODUCED		OR TRANSMITTED IN ANY FORM OR		MANNER WITHOUT THE WRITTEN		CONSENT OF AMPHENOL. COPY ALL		DOCUMENTS RETURNED HEREON MAY		CONTAIN UNCLASSIFIED INFORMATION
PROCESS SPECIFICATIONS:	THE USE OF THIS DRAWING IS																					
	SPECIFICATIONS, AND PERFORMANCE																					
	DATA ARE THE PROPERTY OF AMPHENOL																					
	AND ARE NOT TO BE REPRODUCED																					
	OR TRANSMITTED IN ANY FORM OR																					
	MANNER WITHOUT THE WRITTEN																					
	CONSENT OF AMPHENOL. COPY ALL																					
	DOCUMENTS RETURNED HEREON MAY																					
	CONTAIN UNCLASSIFIED INFORMATION																					
<table border="1"> <tr> <td>SIZE</td> <td>SCALE</td> <td>REVISION</td> </tr> <tr> <td>10K44</td> <td>NONE</td> <td>C</td> </tr> <tr> <td>S2-15222</td> <td></td> <td>A1</td> </tr> </table>					SIZE	SCALE	REVISION	10K44	NONE	C	S2-15222		A1									
SIZE	SCALE	REVISION																				
10K44	NONE	C																				
S2-15222		A1																				

REVIEWS		DESCRIPTION	DATE	BY	APPR
REV	ZONE	ECO	RELEASE NUMBER	B.D.B.	M.F.F.
1	-	-	RELEASE NUMBER 016571		6/12/09

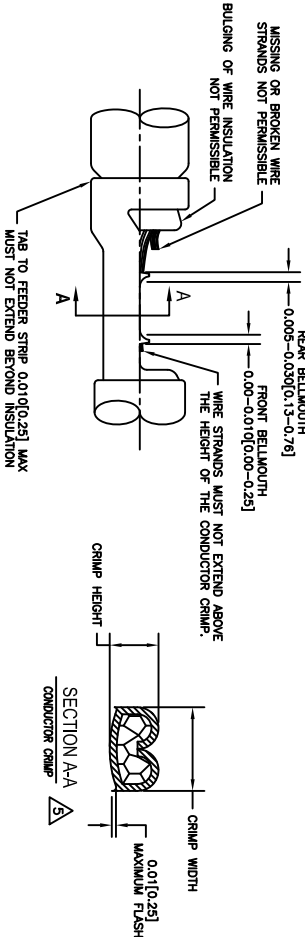
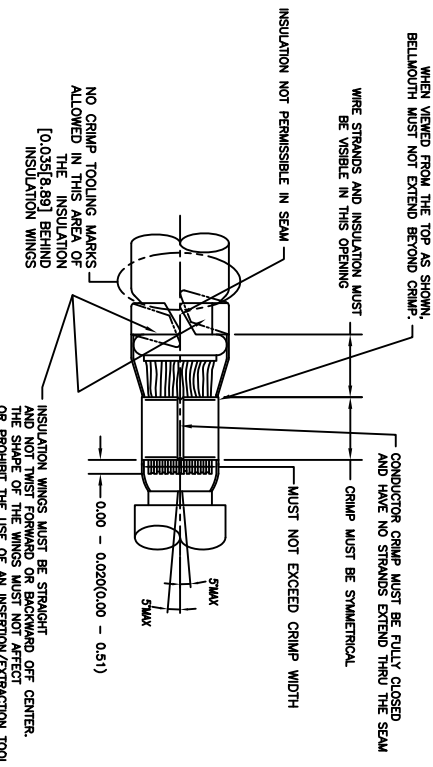
STAMPED CONTACT PART NUMBER (1005-PIN/1005-SOCKET)	SIZE	CONDUCTOR WIRE SIZE	CRIMP HEIGHT +0.01/-0.002 INCH (+0.03/-0.05 mm)	CRIMP WIDTH ±0.013 INCH (±0.08 mm)	CONDUCTOR PUNCH NUMBER	CONDUCTOR ANVIL NUMBER	CRIMP TENSILE REFERENCE (LBSIN)
A160-14-01xx		14 AWG	0.0551(4.0)	0.0942(3.9)			
A162-14-01xx INSULATION RANGE 0.0950-150(2.41-3.81)	16	2.00mm ² 1.50mm ² 16 AWG 1.00mm ² 18 AWG	0.0551(4.0) 0.0531(3.3) 0.0501(2.7) 0.0481(2.4)	0.0942(3.9) 0.0942(3.9) 0.0942(3.9) 0.0942(3.9)			25(111)
A160-16-01xx A162-16-01xx INSULATION RANGE 0.0750-140(1.91-3.59)	16	14 AWG 2.00mm ² 1.50mm ² 16 AWG 1.00mm ² 18 AWG 0.75mm ²	0.0551(4.0) 0.0551(4.0) 0.0531(3.3) 0.0501(2.7) 0.0481(2.4) 0.0481(2.2)	0.0942(3.9) 0.0942(3.9) 0.0942(3.9) 0.0942(3.9) 0.0942(3.9)			25(111)
A160-16-06xx A162-16-06xx INSULATION RANGE 0.0550-100(1.40-2.54)	16	16 AWG 1.00mm ² 0.75mm ² 20 AWG 0.50mm ²	0.0501(2.7) 0.0501(2.7) 0.0481(2.2) 0.0461(1.4)	0.0792(2.01) 0.0792(2.01) 0.0792(2.01) 0.0792(2.01)			19(97)

CROSS REFERENCE

INSULATION DIAMETER RANGE	INSULATION PUNCH NUMBER	INSULATION ANVIL NUMBER	SINE PART NUMBER	DEUTSCH PART NUMBER
0.120-0.150	A17-225-0200	A17-326-0200	MPX-3953	DC11620-02-00
0.105-0.125	A17-226-0200	A17-328-0200	A17-083-0200	1017-083-0200
0.085-0.111	A17-227-0200	A17-327-0200	A17-082-0200	1017-082-0200
0.075-0.105	A17-228-0200	A17-328-0200	A17-183-0200	1017-183-0200
0.063-0.094	A17-229-0200	A17-328-0200	A17-182-0200	1017-182-0200
0.050-0.075	A17-230-0200	A17-328-0200	A17-225-0200	1017-225-0200
			A17-226-0200	1017-226-0200
			A17-227-0200	1017-227-0200
			A17-228-0200	1017-228-0200
			A17-229-0200	1017-229-0200
			A17-230-0200	1017-230-0200
			A17-325-0200	1017-325-0200
			A17-326-0200	1017-326-0200
			A17-327-0200	1017-327-0200
			A17-328-0200	1017-328-0200
			A17-329-0200	1017-329-0200
			A17-330-0200	1017-330-0200

NOTES: UNLESS OTHERWISE SPECIFIED

- ALL DIMENSIONS ARE IN INCHES(mm).
- FORCES ARE IN POUNDS(LBS) AND NEWTONS(N).
- "X" = PLATING SUFFIX. SEE INDIVIDUAL CONTACT DRAWING.
- WIRE STRIP LENGTH: 0.175±0.0294, 45±0.041. BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE. USE A BLADE MICROMETER (0.100[2.54] MIN SPINDLE AND 0.060[0.0101] 1.500[0.40] ANVIL) TO MEASURE THE CONDUCTOR CRIMP. SEE SECTION AA.
- 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.
- INSULATION DIAMETER RANGE IS DETERMINED BY CONNECTOR AND ITS WIRE SEAL SIZE. SEE CONNECTOR DRAWING FOR INSULATION RANGE.
- 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.
- CONDUCTOR TYPE ARE PER SAE J1128(AWG) AND ISO 6122(METRIC)
- FOR CONTACT MATERIAL AND PERFORMANCE DATA, SEE DRAWING SZ-15217.
- REFER TO SZ-15223 AND SZ-15224 AND CROSS REFERENCE CHARTS FOR CRIMP TOOL DATA.



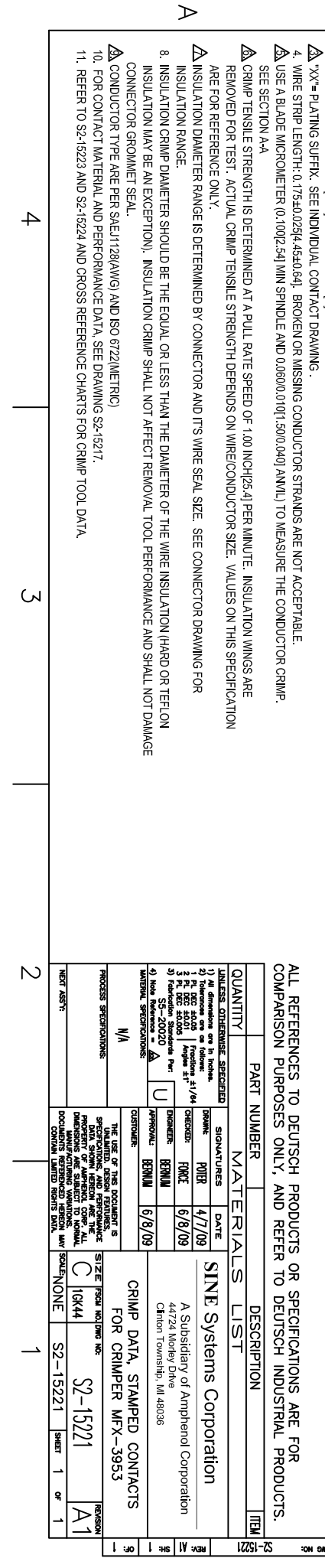
ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
MATERIALS LIST			
UNLESS OTHERWISE SPECIFIED			

DATE: 4/7/09	SIGNATURES: [Blank]	DATE: 6/8/09	SIGNATURES: [Blank]
DATE: 6/8/09	DESIGNED BY: [Blank]	DATE: 6/8/09	APPROVED BY: [Blank]
DATE: 6/8/09	CHECKED BY: [Blank]	DATE: 6/8/09	APPROVED BY: [Blank]
DATE: 6/8/09	ENGINEER: [Blank]	DATE: 6/8/09	APPROVED BY: [Blank]
DATE: 6/8/09	DESIGNED BY: [Blank]	DATE: 6/8/09	APPROVED BY: [Blank]
DATE: 6/8/09	ENGINEER: [Blank]	DATE: 6/8/09	APPROVED BY: [Blank]
DATE: 6/8/09	CHECKED BY: [Blank]	DATE: 6/8/09	APPROVED BY: [Blank]
DATE: 6/8/09	ENGINEER: [Blank]	DATE: 6/8/09	APPROVED BY: [Blank]

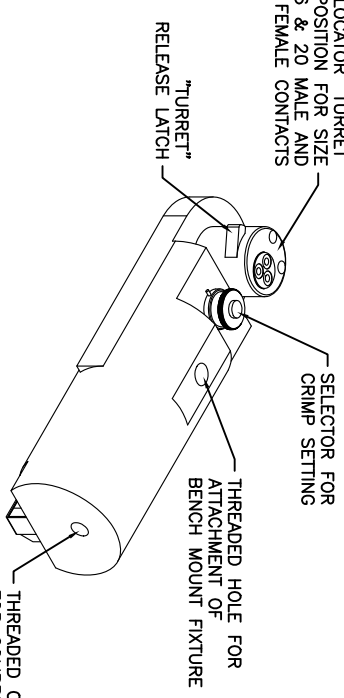
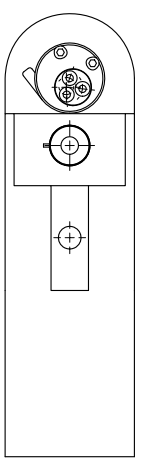
THE USE OF THIS DOCUMENT IS LIMITED TO THE SPECIFICATIONS AND PERFORMANCE DATA OF THE PRODUCT AS SHOWN ON THIS DRAWING. ANY MODIFICATION TO THE PRODUCT OR THE USE OF THIS DOCUMENT FOR OTHER PURPOSES IS AT THE USER'S RISK. ALL DIMENSIONS ARE IN INCHES (mm) UNLESS OTHERWISE SPECIFIED. REVISED EDITION: 10/01/09

SIZE: 10K44	SCALE: NONE	SIZE: 10K44	SCALE: NONE
REV: A1	CRIMP DATA, STAMPED CONTACTS FOR CRIMPER MPX-3953	REV: A1	CRIMP DATA, STAMPED CONTACTS FOR CRIMPER MPX-3953
SHEET: 1 OF 1		SHEET: 1 OF 1	

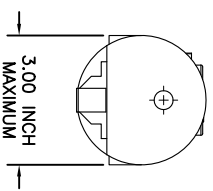
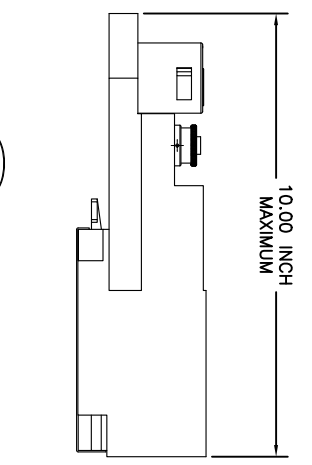


REVISONS		DESCRIPTION	DATE	BY	APPR
REV	ZONE	ECO	RELEASE NUMBER	B.D.B.	M.R.F.
A1	-	-	016571	6/12/09	

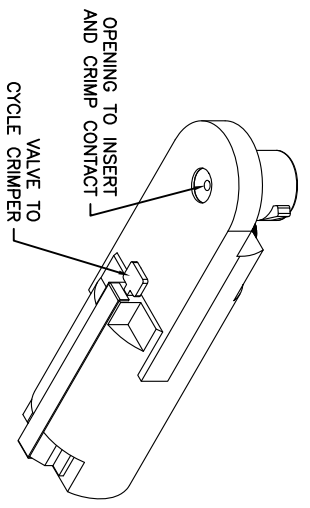
CONTACT LOCATOR "TURRET"
THREE POSITION FOR SIZE
12, 16 & 20 MALE AND
FEMALE CONTACTS



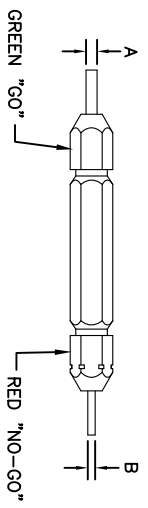
THREADED OPENING
FOR COMPRESSED
AIR FITTING



- 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).
- 80-120 PSI COMPRESSED AIR.
- WEIGHT: 3.1 LBS
- 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.
- SELECTING WIRE SIZE: GRASP THE SELECTOR AND ROTATE TO THE DESIRED NUMBER.



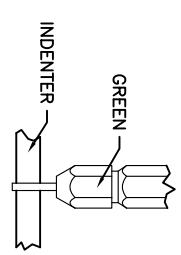
GAGE PART NO.	A GO DIA.	B NO-GO DIA.	SELECTOR NUMBER
G125	.0390	.0440	4



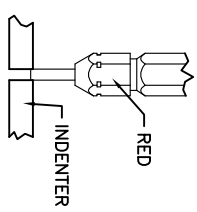
GAGING INSTRUCTIONS
CAUTION!
DO NOT CRIMP GAGE!

"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 OPENING, BUT MUST NOT PASS COMPLETELY THROUGH THE OPENING.



SELECTOR NUMBER	A GO DIA.	B 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	.0880	.0730



CONTACT SIZE	LOCATOR "TURRET" POSITION	WIRE COLOR	SELECTOR NUMBER
20-20	RED	1	2
16-22	BLUE	4	5
16-20	BLUE	1	2
16-16	BLUE	4	5
12-16	YELLOW	4	5
12-12	YELLOW		7
			8

MATERIALS LIST

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
		SINE SYSTEMS CORPORATION	
		A Subsidiary of Amphipol Corporation	
		44724 Mowley Drive	
		Carlton Township, MI 48036	
		INSTRUCTIONS FOR CA-5E12 CRIMPER, PNEUMATIC	
		SIZE: 10K44	
		SCALE: NONE	
		S2-15220	
		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED:
1) All dimensions are in inches.
2) Holes are standard unless otherwise noted.
3) Pl. SEC. 20.00 1 Position 31/16
4) Pl. SEC. 20.00 1 Position 31/16
5) Fabrication Standard Per: A
6) Heat. SS-20020
APPROVAL SIGNATURES:
DESIGNED: BERNIM DATE: 6/2/09
CHECKED: NONE DATE: 6/3/09
DRAWN: BERNIM
APPROVAL: BERNIM DATE: 6/3/09
CUSTOMER: _____
THE USE OF THIS DRAWING IS SPECIFIC TO THE PART AND SPECIFICATIONS AND PERFORMANCE INDICATED THEREON. ANY REVISIONS OR ALTERATIONS TO THIS DRAWING MUST BE APPROVED BY THE DESIGNER AND THE CUSTOMER. ALL DIMENSIONS REFERENCED HEREON ARE DRAWING DIMENSIONS UNLESS OTHERWISE SPECIFIED.
DRAWN BY: BERNIM
DATE: 6/2/09
SCALE: NONE
SHEET 1 OF 1

A

B

C

D

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

CONTACT LOCATOR
"TURRET"
THREE POSITIONS FOR
SIZE 12, 16 & 20 MALE
AND FEMALE CONTACTS

"TURRET" RELEASE LATCH

6.25 INCH
MAXIMUM
OPEN

2.30 INCH
MAXIMUM
CLOSED

SELECTOR FOR CRIMP
SETTING

1.125 INCH MAX.

9.75 INCH MAXIMUM

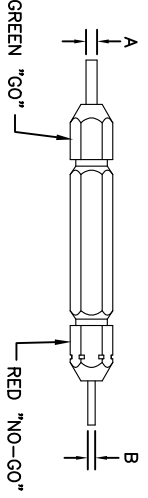
1.00 INCH MAX.

- NOTES:
- 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).
 - WEIGHT: 1.64 LBS
 - 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.
 - SELECTING WIRE SIZE: REMOVE THE LOCKING CLIP. GRASP THE SELECTOR AND ROTATE TO THE DESIRED NUMBER.

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

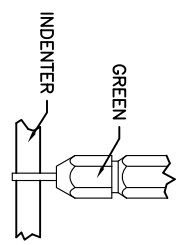
GAGING INSTRUCTIONS

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 OPENING, BUT MUST NOT PASS COMPLETELY THROUGH THE OPENING.



SELECTOR NUMBER	A GO DIA.	B 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	.0880	.0730

CONTACT SIZE	LOCATOR "TURRET" POSITION	WIRE COLOR	1	2	3	4	5	6	7	8
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									8

QUANTITY	PART NUMBER	DESCRIPTION	ITEM

MATERIALS LIST		SIGNATURES		DATE	
UNLESS OTHERWISE SPECIFIED					
1) All dimensions are in inches.					
2) Pl. SEC. 34.00					
3) Pl. SEC. 34.00					
4) Pl. SEC. 34.00					
5) Pl. SEC. 34.00					
6) Pl. SEC. 34.00					
7) Pl. SEC. 34.00					
8) Pl. SEC. 34.00					
9) Pl. SEC. 34.00					
10) Pl. SEC. 34.00					
11) Pl. SEC. 34.00					
12) Pl. SEC. 34.00					
13) Pl. SEC. 34.00					
14) Pl. SEC. 34.00					
15) Pl. SEC. 34.00					
16) Pl. SEC. 34.00					
17) Pl. SEC. 34.00					
18) Pl. SEC. 34.00					
19) Pl. SEC. 34.00					
20) Pl. SEC. 34.00					
21) Pl. SEC. 34.00					
22) Pl. SEC. 34.00					
23) Pl. SEC. 34.00					
24) Pl. SEC. 34.00					
25) Pl. SEC. 34.00					
26) Pl. SEC. 34.00					
27) Pl. SEC. 34.00					
28) Pl. SEC. 34.00					
29) Pl. SEC. 34.00					
30) Pl. SEC. 34.00					
31) Pl. SEC. 34.00					
32) Pl. SEC. 34.00					
33) Pl. SEC. 34.00					
34) Pl. SEC. 34.00					
35) Pl. SEC. 34.00					
36) Pl. SEC. 34.00					
37) Pl. SEC. 34.00					
38) Pl. SEC. 34.00					
39) Pl. SEC. 34.00					
40) Pl. SEC. 34.00					
41) Pl. SEC. 34.00					
42) Pl. SEC. 34.00					
43) Pl. SEC. 34.00					
44) Pl. SEC. 34.00					
45) Pl. SEC. 34.00					
46) Pl. SEC. 34.00					
47) Pl. SEC. 34.00					
48) Pl. SEC. 34.00					
49) Pl. SEC. 34.00					
50) Pl. SEC. 34.00					
51) Pl. SEC. 34.00					
52) Pl. SEC. 34.00					
53) Pl. SEC. 34.00					
54) Pl. SEC. 34.00					
55) Pl. SEC. 34.00					
56) Pl. SEC. 34.00					
57) Pl. SEC. 34.00					
58) Pl. SEC. 34.00					
59) Pl. SEC. 34.00					
60) Pl. SEC. 34.00					
61) Pl. SEC. 34.00					
62) Pl. SEC. 34.00					
63) Pl. SEC. 34.00					
64) Pl. SEC. 34.00					
65) Pl. SEC. 34.00					
66) Pl. SEC. 34.00					
67) Pl. SEC. 34.00					
68) Pl. SEC. 34.00					
69) Pl. SEC. 34.00					
70) Pl. SEC. 34.00					
71) Pl. SEC. 34.00					
72) Pl. SEC. 34.00					
73) Pl. SEC. 34.00					
74) Pl. SEC. 34.00					
75) Pl. SEC. 34.00					
76) Pl. SEC. 34.00					
77) Pl. SEC. 34.00					
78) Pl. SEC. 34.00					
79) Pl. SEC. 34.00					
80) Pl. SEC. 34.00					
81) Pl. SEC. 34.00					
82) Pl. SEC. 34.00					
83) Pl. SEC. 34.00					
84) Pl. SEC. 34.00					
85) Pl. SEC. 34.00					
86) Pl. SEC. 34.00					
87) Pl. SEC. 34.00					
88) Pl. SEC. 34.00					
89) Pl. SEC. 34.00					
90) Pl. SEC. 34.00					
91) Pl. SEC. 34.00					
92) Pl. SEC. 34.00					
93) Pl. SEC. 34.00					
94) Pl. SEC. 34.00					
95) Pl. SEC. 34.00					
96) Pl. SEC. 34.00					
97) Pl. SEC. 34.00					
98) Pl. SEC. 34.00					
99) Pl. SEC. 34.00					
100) Pl. SEC. 34.00					

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

A Subsidiary of Amphenol Corporation
44724 Moley Drive
Canton Township, MI 48036

SIZE: 10K44
SCALE: NONE
S2-15219
SHEET: 1 OF 1

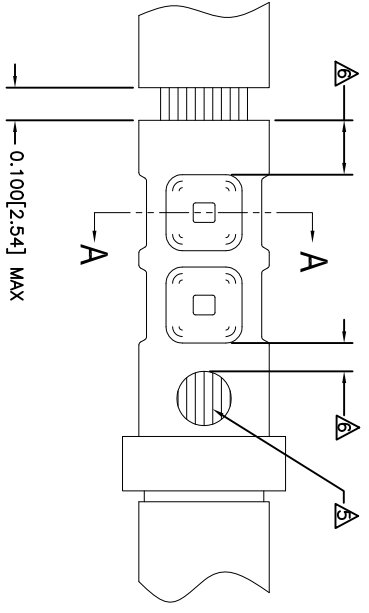
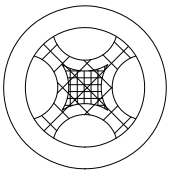
REVOLUTIONS		DESCRIPTION	DATE	BY	APPR
REV	ZONE	ECO	RELEASE NUMBER 016571	B.D.B.	M.R.F.
A1	-	-	6/12/09		

CONTACT P/N	SIZE TYPE	WIRE SIZE	REF. ONLY TENSILE LBS[N]
AT60-202-16XX	16PIN	1.5mm ² 16AWG	35[156]
AT62-201-16XX	16SOC	1.0mm ² 18AWG 0.75mm ² 20AWG	25[111] 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 CA-5E12	BLUE	6	0.052[1.32]	0.057[1.45]	
16	CA-5D12 CA-5E12	BLUE	4	0.039[.991]	0.044[1.12]	SIZE 16 WITH 20 AWG WIRE

- 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. CONDUCTOR STRANDS MUST BE VISIBLE THRU THE INSPECTION HOLE PRIOR TO CRIMP.
 - 5. PROPER CRIMP TOOLING WILL PRODUCE A CRIMP CENTERED BETWEEN THE INSPECTION HOLE AND CRIMP BARREL END.
 - 6. WIRE SIZES PER SAE J1128 AND J1560 [DIN 72551-6] REFERENCE INSTRUCTION MANUALS S2-15219 AND S2-15220 FOR CA-5D12 AND CA-5E12 HAND AND PNEUMATIC CRIMPER.
 - 7. THE CRIMP HEIGHT DIMENSION AFTER CRIMPING MAY VARY FROM THE VALUES LISTED FOR THE "GO-NOGO" PINS.



QUANTITY	PART NUMBER	DESCRIPTION	ITEM
	MATERIALS LIST		
	SIGNATURES	DATE	
	DESIGNER: BERNUIM	6/3/09	
	CHECKER: RONE	6/3/09	
	ENGINEER: BERNUIM		
	APPROVAL: BERNUIM	6/3/09	
	CUSTOMER: M/A		
	SINE SYSTEMS CORPORATION A Subsidiary of Amphenol Corporation 44724 Moley Drive Clinton Township, MI 48036		
	CRIMP INFORMATION SOLID MACHINED CONTACTS		
	SIZE (P/N)	SCALE	REVISION
	10K44	1:1	A1
	S2-15218		
	SHEET	1 OF	1

UNLESS OTHERWISE SPECIFIED

1) All dimensions are in inches.

2) See drawing for tolerances.

3) Pl. SEE 40.011 Provisions 31/14

4) Pl. SEE 40.011 Provisions 31/14

5) Fabrication Standards Per: U

6) Pl. SEE 40.011 Provisions 31/14

7) Pl. SEE 40.011 Provisions 31/14

8) Pl. SEE 40.011 Provisions 31/14

9) Pl. SEE 40.011 Provisions 31/14

10) Pl. SEE 40.011 Provisions 31/14

11) Pl. SEE 40.011 Provisions 31/14

12) Pl. SEE 40.011 Provisions 31/14

13) Pl. SEE 40.011 Provisions 31/14

14) Pl. SEE 40.011 Provisions 31/14

15) Pl. SEE 40.011 Provisions 31/14

16) Pl. SEE 40.011 Provisions 31/14

17) Pl. SEE 40.011 Provisions 31/14

18) Pl. SEE 40.011 Provisions 31/14

19) Pl. SEE 40.011 Provisions 31/14

20) Pl. SEE 40.011 Provisions 31/14

21) Pl. SEE 40.011 Provisions 31/14

22) Pl. SEE 40.011 Provisions 31/14

23) Pl. SEE 40.011 Provisions 31/14

24) Pl. SEE 40.011 Provisions 31/14

25) Pl. SEE 40.011 Provisions 31/14

26) Pl. SEE 40.011 Provisions 31/14

27) Pl. SEE 40.011 Provisions 31/14

28) Pl. SEE 40.011 Provisions 31/14

29) Pl. SEE 40.011 Provisions 31/14

30) Pl. SEE 40.011 Provisions 31/14

31) Pl. SEE 40.011 Provisions 31/14

32) Pl. SEE 40.011 Provisions 31/14

33) Pl. SEE 40.011 Provisions 31/14

34) Pl. SEE 40.011 Provisions 31/14

35) Pl. SEE 40.011 Provisions 31/14

36) Pl. SEE 40.011 Provisions 31/14

37) Pl. SEE 40.011 Provisions 31/14

38) Pl. SEE 40.011 Provisions 31/14

39) Pl. SEE 40.011 Provisions 31/14

40) Pl. SEE 40.011 Provisions 31/14

41) Pl. SEE 40.011 Provisions 31/14

42) Pl. SEE 40.011 Provisions 31/14

43) Pl. SEE 40.011 Provisions 31/14

44) Pl. SEE 40.011 Provisions 31/14

45) Pl. SEE 40.011 Provisions 31/14

46) Pl. SEE 40.011 Provisions 31/14

47) Pl. SEE 40.011 Provisions 31/14

48) Pl. SEE 40.011 Provisions 31/14

49) Pl. SEE 40.011 Provisions 31/14

50) Pl. SEE 40.011 Provisions 31/14

51) Pl. SEE 40.011 Provisions 31/14

52) Pl. SEE 40.011 Provisions 31/14

53) Pl. SEE 40.011 Provisions 31/14

54) Pl. SEE 40.011 Provisions 31/14

55) Pl. SEE 40.011 Provisions 31/14

56) Pl. SEE 40.011 Provisions 31/14

57) Pl. SEE 40.011 Provisions 31/14

58) Pl. SEE 40.011 Provisions 31/14

59) Pl. SEE 40.011 Provisions 31/14

60) Pl. SEE 40.011 Provisions 31/14

61) Pl. SEE 40.011 Provisions 31/14

62) Pl. SEE 40.011 Provisions 31/14

63) Pl. SEE 40.011 Provisions 31/14

64) Pl. SEE 40.011 Provisions 31/14

65) Pl. SEE 40.011 Provisions 31/14

66) Pl. SEE 40.011 Provisions 31/14

67) Pl. SEE 40.011 Provisions 31/14

68) Pl. SEE 40.011 Provisions 31/14

69) Pl. SEE 40.011 Provisions 31/14

70) Pl. SEE 40.011 Provisions 31/14

71) Pl. SEE 40.011 Provisions 31/14

72) Pl. SEE 40.011 Provisions 31/14

73) Pl. SEE 40.011 Provisions 31/14

74) Pl. SEE 40.011 Provisions 31/14

75) Pl. SEE 40.011 Provisions 31/14

76) Pl. SEE 40.011 Provisions 31/14

77) Pl. SEE 40.011 Provisions 31/14

78) Pl. SEE 40.011 Provisions 31/14

79) Pl. SEE 40.011 Provisions 31/14

80) Pl. SEE 40.011 Provisions 31/14

81) Pl. SEE 40.011 Provisions 31/14

82) Pl. SEE 40.011 Provisions 31/14

83) Pl. SEE 40.011 Provisions 31/14

84) Pl. SEE 40.011 Provisions 31/14

85) Pl. SEE 40.011 Provisions 31/14

86) Pl. SEE 40.011 Provisions 31/14

87) Pl. SEE 40.011 Provisions 31/14

88) Pl. SEE 40.011 Provisions 31/14

89) Pl. SEE 40.011 Provisions 31/14

90) Pl. SEE 40.011 Provisions 31/14

91) Pl. SEE 40.011 Provisions 31/14

92) Pl. SEE 40.011 Provisions 31/14

93) Pl. SEE 40.011 Provisions 31/14

94) Pl. SEE 40.011 Provisions 31/14

95) Pl. SEE 40.011 Provisions 31/14

96) Pl. SEE 40.011 Provisions 31/14

97) Pl. SEE 40.011 Provisions 31/14

98) Pl. SEE 40.011 Provisions 31/14

99) Pl. SEE 40.011 Provisions 31/14

100) Pl. SEE 40.011 Provisions 31/14

REVISONS		DESCRIPTION	DATE	BY	APPR
REV	ZONE	ECO	RELEASE NUMBER 016871	6/12/08	B.D.B. M.R.F.
A1	-	-			

SOLID CONTACT SIZE	SOLID CONTACT PART NUMBERS		WIRE SIZE AVG(mm ²)	RECOMMENDED STRIP LENGTH INCH (mm)	MIN CONTACT RETENTION LBS (N)	REF CRIMP TENSILE LBS (N)	MAX RATED AMPS@125°C CONTINUOUS
	PN	SOCKET					
16	AT60-202-16**	AT62-201-16**	16-20 [1.5-0.5]	0.25-0.31 [6.35-7.92]	25 [1111]	35-20 [156-89]	13

S&P CONTACT SIZE	STAMPED CONTACT PART NUMBERS		WIRE SIZE AVG (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
	PN	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 [1111]	25 [1111]	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 [1111]	25 [1111]	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 [1111]	25-15 [111+67]	13

WIRE AWG	TEST CURRENT	MILLIVOLT DROP SOLID	MILLIVOLT DROP S&P
14	18	60	100
16	13	60	100
18	10	60	100
20	7.5	60	100

CONTACT RESISTANCE STRENGTH (LESS DROP THROUGH WIRE)		MATERIAL SPECIFICATION AND PLATING ** CODES	
PIN: COPPER ALLOY		SOLID MACHINED CONTACT PLATING OPTIONS: Δ	
SOCKET: COPPER ALLOY WITH STAINLESS STEEL SLEEVE		3I= GOLD*	
		14I= NICKEL	
		STAMPED CONTACT PLATING OPTIONS: Δ	
		22= NICKEL	
		44= GOLD*	
		89= SELECTIVE GOLD*	
GOLD* = PLATING IS AVAILABLE (RECOMMENDED) FOR ONLY (<5V) CIRCUIT APPLICATIONS			
MATERIALS AND PLATINGS ARE ROHS COMPLIANT			

NOTES: UNLESS OTHERWISE SPECIFIED

- ALL DIMENSIONS ARE INCHES(MM).
- ALL FORCES ARE IN LBS(POUNDS) AND "N" (NEWTONS).
- CONTACT RETENTION TEST PULL RATE SHALL BE 1.0 INCH/2S. 4) PER MINUTE MAXIMUM. WIRE SIZE WILL AFFECT THE TRUE STRENGTH OF THE CRIMP.
- 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	"STAMPED" CONTACTS	SIZE
	S2-15218	S2-15222	16
		S2-15221	16/20

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

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
UNLESS OTHERWISE SPECIFIED			
1) All dimensions are in inches.	SIGNATURES	DATE	
2) Pl. SEE 30.00	DATE	4/5/09	
3) Pl. SEE 30.00	ORDERED BY	6/3/09	
4) Pl. SEE 30.00	ENGINEER	BERNIM	
5) Fabrication Standards Per: Δ	APPROVAL	BERNIM	
6) Part: SS-20020	CUSTOMER	6/3/09	
7) Part: SS-20020	APPROVAL		
8) Part: SS-20020	CUSTOMER		
9) Part: SS-20020	APPROVAL		
10) Part: SS-20020	CUSTOMER		
11) Part: SS-20020	APPROVAL		
12) Part: SS-20020	CUSTOMER		
13) Part: SS-20020	APPROVAL		
14) Part: SS-20020	CUSTOMER		
15) Part: SS-20020	APPROVAL		
16) Part: SS-20020	CUSTOMER		
17) Part: SS-20020	APPROVAL		
18) Part: SS-20020	CUSTOMER		
19) Part: SS-20020	APPROVAL		
20) Part: SS-20020	CUSTOMER		
21) Part: SS-20020	APPROVAL		
22) Part: SS-20020	CUSTOMER		
23) Part: SS-20020	APPROVAL		
24) Part: SS-20020	CUSTOMER		
25) Part: SS-20020	APPROVAL		
26) Part: SS-20020	CUSTOMER		
27) Part: SS-20020	APPROVAL		
28) Part: SS-20020	CUSTOMER		
29) Part: SS-20020	APPROVAL		
30) Part: SS-20020	CUSTOMER		
31) Part: SS-20020	APPROVAL		
32) Part: SS-20020	CUSTOMER		
33) Part: SS-20020	APPROVAL		
34) Part: SS-20020	CUSTOMER		
35) Part: SS-20020	APPROVAL		
36) Part: SS-20020	CUSTOMER		
37) Part: SS-20020	APPROVAL		
38) Part: SS-20020	CUSTOMER		
39) Part: SS-20020	APPROVAL		
40) Part: SS-20020	CUSTOMER		
41) Part: SS-20020	APPROVAL		
42) Part: SS-20020	CUSTOMER		
43) Part: SS-20020	APPROVAL		
44) Part: SS-20020	CUSTOMER		
45) Part: SS-20020	APPROVAL		
46) Part: SS-20020	CUSTOMER		
47) Part: SS-20020	APPROVAL		
48) Part: SS-20020	CUSTOMER		
49) Part: SS-20020	APPROVAL		
50) Part: SS-20020	CUSTOMER		
51) Part: SS-20020	APPROVAL		
52) Part: SS-20020	CUSTOMER		
53) Part: SS-20020	APPROVAL		
54) Part: SS-20020	CUSTOMER		
55) Part: SS-20020	APPROVAL		
56) Part: SS-20020	CUSTOMER		
57) Part: SS-20020	APPROVAL		
58) Part: SS-20020	CUSTOMER		
59) Part: SS-20020	APPROVAL		
60) Part: SS-20020	CUSTOMER		
61) Part: SS-20020	APPROVAL		
62) Part: SS-20020	CUSTOMER		
63) Part: SS-20020	APPROVAL		
64) Part: SS-20020	CUSTOMER		
65) Part: SS-20020	APPROVAL		
66) Part: SS-20020	CUSTOMER		
67) Part: SS-20020	APPROVAL		
68) Part: SS-20020	CUSTOMER		
69) Part: SS-20020	APPROVAL		
70) Part: SS-20020	CUSTOMER		
71) Part: SS-20020	APPROVAL		
72) Part: SS-20020	CUSTOMER		
73) Part: SS-20020	APPROVAL		
74) Part: SS-20020	CUSTOMER		
75) Part: SS-20020	APPROVAL		
76) Part: SS-20020	CUSTOMER		
77) Part: SS-20020	APPROVAL		
78) Part: SS-20020	CUSTOMER		
79) Part: SS-20020	APPROVAL		
80) Part: SS-20020	CUSTOMER		
81) Part: SS-20020	APPROVAL		
82) Part: SS-20020	CUSTOMER		
83) Part: SS-20020	APPROVAL		
84) Part: SS-20020	CUSTOMER		
85) Part: SS-20020	APPROVAL		
86) Part: SS-20020	CUSTOMER		
87) Part: SS-20020	APPROVAL		
88) Part: SS-20020	CUSTOMER		
89) Part: SS-20020	APPROVAL		
90) Part: SS-20020	CUSTOMER		
91) Part: SS-20020	APPROVAL		
92) Part: SS-20020	CUSTOMER		
93) Part: SS-20020	APPROVAL		
94) Part: SS-20020	CUSTOMER		
95) Part: SS-20020	APPROVAL		
96) Part: SS-20020	CUSTOMER		
97) Part: SS-20020	APPROVAL		
98) Part: SS-20020	CUSTOMER		
99) Part: SS-20020	APPROVAL		
100) Part: SS-20020	CUSTOMER		

SINE SYSTEMS CORPORATION
 A Subsidiary of Amphenol Corporation
 44724 Moley Drive
 Clinton Township, MI 48036

GENERAL DATA, CONTACTS STAMPED AND FORMED / MACHINED

SIZE: Pcs/lot 1000000
 SCALE: NONE
 S2-15217
 SHEET 1 OF 1



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.