

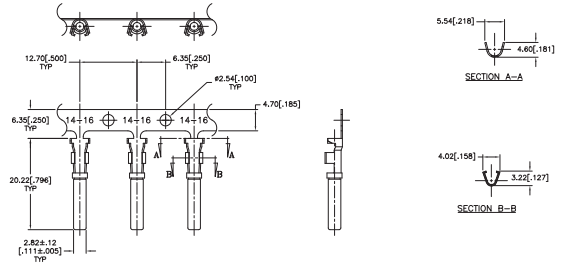
STAMPED AND FORMED CONTACTS, PG 1 of 2

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

OPTIONS

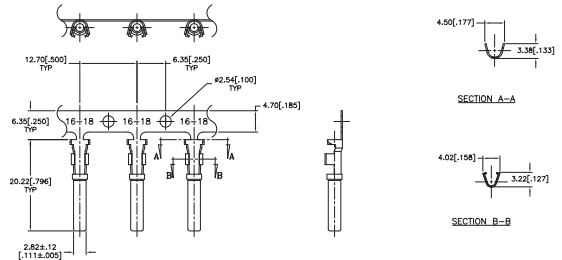
PART NUMBER: AT62-14-01XX
DESCRIPTION: CONTACT, SOCKET, STAMPED, SIZE 16

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)



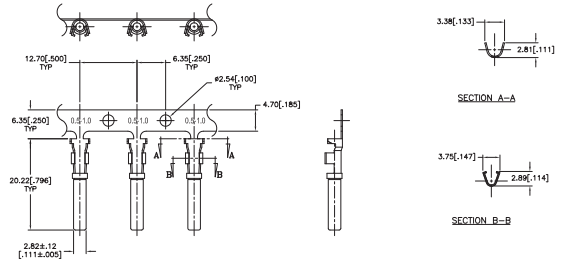
PART NUMBER: AT62-16-01XX
DESCRIPTION: CONTACT, SOCKET, STAMPED, SIZE 16

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)



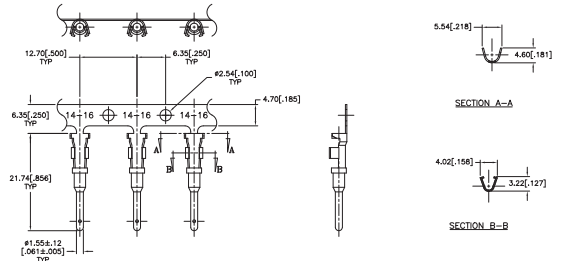
PART NUMBER: AT62-16-06XX
DESCRIPTION: CONTACT, SOCKET, STAMPED, SIZE 16

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

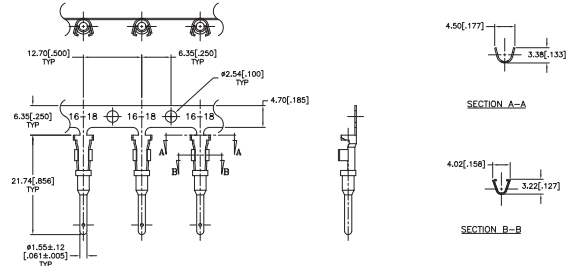
CONTACT GENERAL DATA SPECIFICATION: S2-15217

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:

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XX=44 GOLD PLATING

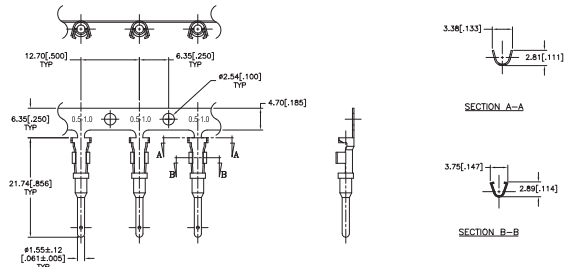
CONTACT GENERAL DATA SPECIFICATION: S2-15217

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)



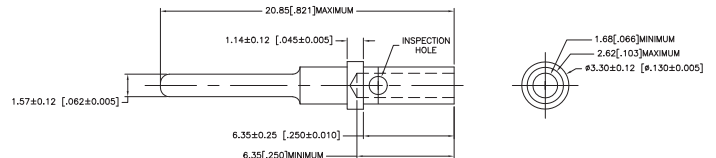
SOLID/MACHINED CONTACTS

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

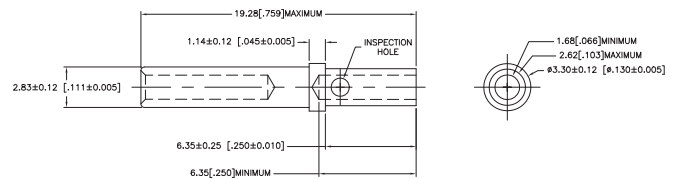
OPTIONS

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

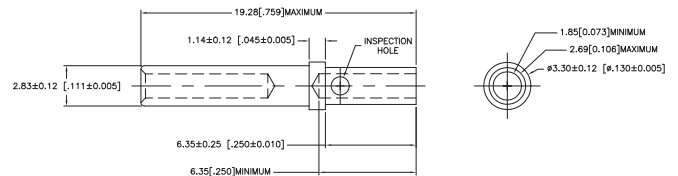


PART NUMBER: [AT62-201-16XX](#)
DESCRIPTION: CONTACT, SOCKET, SOLID MACHINED, SIZE 16
MATERIAL:
 CONTACT BODY: COPPER ALLOY
 HOOD: STAINLESS STEEL
PLATING SUFFIX CODE:
 XX=141 NICKEL PLATING
 XX=31 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER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

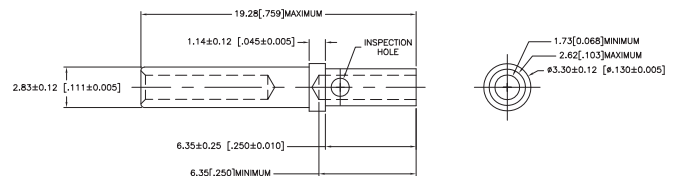


ROCKSOLID™ CONTACTS

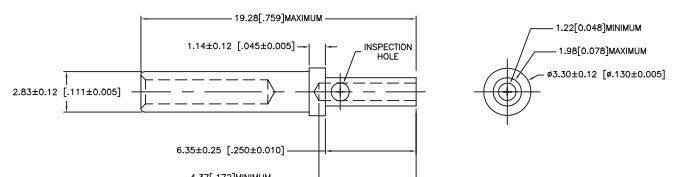
PART NUMBER: [65-54942-14](#)
DESCRIPTION: CONTACT, SOCKET, ROCKSOLID, SIZE 16
AWG RANGE: 14AWG
MATERIAL: COPPER ALLOY
PLATING: GOLD
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218



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



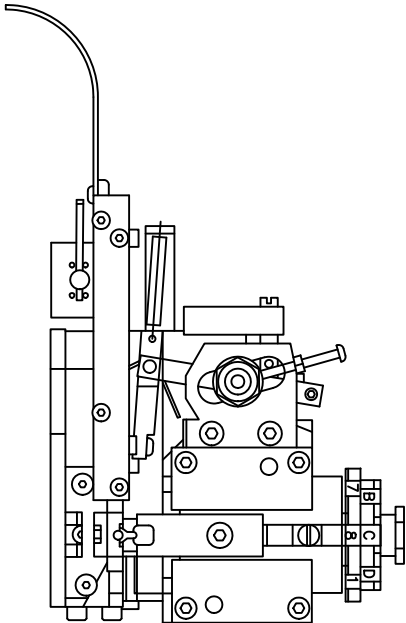
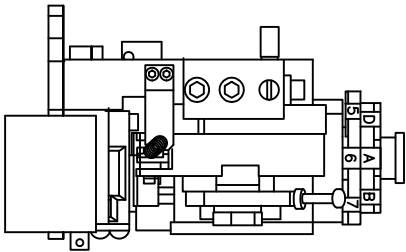
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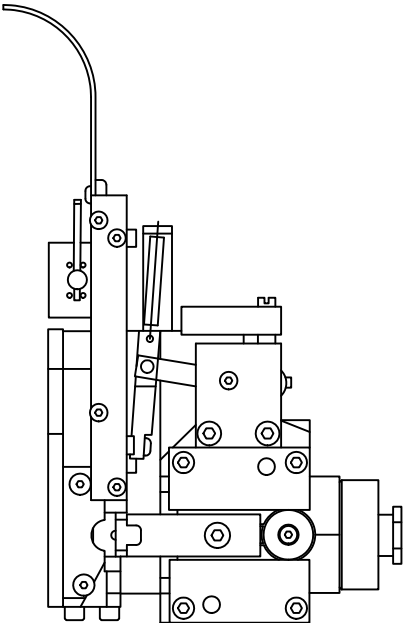
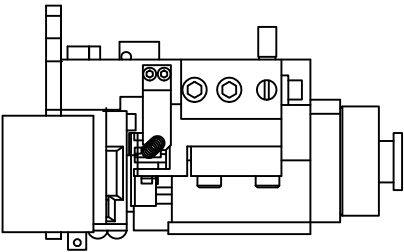
2

1

REVISIONS			
REV	ZONE	ECO	DESCRIPTION
A1	-	-	RELEASE NUMBER 016571
			DATE
			6/12/09
			BY
			B.D.B.
			APP
			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. HOLE .001			
2. HOLE .001			
3. HOLE .001			
4. HOLE .001			
5) Production Standards Per:			
a) ASME			
b) ISO			
c) JIS			
d) SAE			
e) MIL			
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REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NUMBER 016571	6/12/09	B.D.B.	M.R.F.

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

ATT-16-00 WITH CAVITY A & B

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

The drawing shows a hand tool, possibly a wire stripper or a similar device, from two perspectives. The main view on the left is a side profile showing a long, curved handle and a head with a central rectangular slot and a curved adjustment knob. A dashed circle highlights the top of the head, which is shown in a detail inset at the top left. This inset shows a cross-section with two slots labeled 'D C' and 'D D'. The second view on the right is a top-down or bottom-up view, showing a rectangular body with a central slot and a small circular feature at the top. A dashed circle highlights the top of this view, which is shown in a detail inset at the top right. This inset shows a cross-section with two slots labeled 'D A' and 'D B'. The tool has a curved handle and a central rectangular slot on the head.

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**	[.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

A diagram showing a power cord being plugged into a power switch. The switch is labeled with a power symbol (a circle with a vertical line) and the word 'POWER'. The cord is shown entering the switch from the top.

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.

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
MATERIALS LIST			
SINE Systems Corporation A Subsidiary of Amphenol Corporation 44729 Midway Drive Clinton Township, MI 48036			
UNLESS OTHERWISE SPECIFIED 1) All dimensions are in inches. 2) Tolerances are as follows: 1. Holes: .0005 2. Flat: .0010 3. Flat: .0010 4. Flat: .0010 5) Thread: UNF-2A 6) Surface: .0005 7) Surface: .0005 8) Surface: .0005 9) Surface: .0005 10) Surface: .0005 11) Surface: .0005 12) Surface: .0005 13) Surface: .0005 14) Surface: .0005 15) Surface: .0005 16) Surface: .0005 17) Surface: .0005 18) Surface: .0005 19) Surface: .0005 20) Surface: .0005 21) Surface: .0005 22) Surface: .0005 23) Surface: .0005 24) Surface: .0005 25) Surface: .0005 26) Surface: .0005 27) Surface: .0005 28) Surface: .0005 29) Surface: .0005 30) Surface: .0005 31) Surface: .0005 32) Surface: .0005 33) Surface: .0005 34) Surface: .0005 35) Surface: .0005 36) Surface: .0005 37) Surface: .0005 38) Surface: .0005 39) Surface: .0005 40) Surface: .0005 41) Surface: .0005 42) Surface: .0005 43) Surface: .0005 44) Surface: .0005 45) Surface: .0005 46) Surface: .0005 47) Surface: .0005 48) Surface: .0005 49) Surface: .0005 50) Surface: .0005 51) Surface: .0005 52) Surface: .0005 53) Surface: .0005 54) Surface: .0005 55) Surface: .0005 56) Surface: .0005 57) Surface: .0005 58) Surface: .0005 59) Surface: .0005 60) Surface: .0005 61) Surface: .0005 62) Surface: .0005 63) Surface: .0005 64) Surface: .0005 65) Surface: .0005 66) Surface: .0005 67) Surface: .0005 68) Surface: .0005 69) Surface: .0005 70) Surface: .0005 71) Surface: .0005 72) Surface: .0005 73) Surface: .0005 74) Surface: .0005 75) Surface: .0005 76) Surface: .0005 77) Surface: .0005 78) Surface: .0005 79) Surface: .0005 80) Surface: .0005 81) Surface: .0005 82) Surface: .0005 83) Surface: .0005 84) Surface: .0005 85) Surface: .0005 86) Surface: .0005 87) Surface: .0005 88) Surface: .0005 89) Surface: .0005 90) Surface: .0005 91) Surface: .0005 92) Surface: .0005 93) Surface: .0005 94) Surface: .0005 95) Surface: .0005 96) Surface: .0005 97) Surface: .0005 98) Surface: .0005 99) Surface: .0005 100) Surface: .0005 101) Surface: .0005 102) Surface: .0005 103) Surface: .0005 104) Surface: .0005 105) Surface: .0005 106) Surface: .0005 107) Surface: .0005 108) Surface: .0005 109) Surface: .0005 110) Surface: .0005 111) Surface: .0005 112) Surface: .0005 113) Surface: .0005 114) Surface: .0005 115) Surface: .0005 116) Surface: .0005 117) Surface: .0005 118) Surface: .0005 119) Surface: .0005 120) Surface: .0005 121) Surface: .0005 122) Surface: .0005 123) Surface: .0005 124) Surface: .0005 125) Surface: .0005 126) Surface: .0005 127) Surface: .0005 128) Surface: .0005 129) Surface: .0005 130) Surface: .0005 131) Surface: .0005 132) Surface: .0005 133) Surface: .0005 134) Surface: .0005 135) Surface: .0005 136) Surface: .0005 137) Surface: .0005 138) Surface: .0005 139) Surface: .0005 140) Surface: .0005 141) Surface: .0005 142) Surface: .0005 143) Surface: .0005 144) Surface: .0005 145) Surface: .0005 146) Surface: .0005 147) Surface: .0005 148) Surface: .0005 149) Surface: .0005 150) Surface: .0005 151) Surface: .0005 152) Surface: .0005 153) Surface: .0005 154) Surface: .0005 155) Surface: .0005 156) Surface: .0005 157) Surface: .0005 158) Surface: .0005 159) Surface: .0005 160) Surface: .0005 161) Surface: .0005 162) Surface: .0005 163) Surface: .0005 164) Surface: .0005 165) Surface: .0005 166) Surface: .0005 167) Surface: .0005 168) Surface: .0005 169) Surface: .0005 170) Surface: .0005 171) Surface: .0005 172) Surface: .0005 173) Surface: .0005 174) Surface: .0005 175) Surface: .0005 176) Surface: .0005 177) Surface: .0005 178) Surface: .0005 179) Surface: .0005 180) Surface: .0005 181) Surface: .0005 182) Surface: .0005 183) Surface: .0005 184) Surface: .0005 185) Surface: .0005 186) Surface: .0005 187) Surface: .0005 188) Surface: .0005 189) Surface: .0005 190) Surface: .0005 191) Surface: .0005 192) Surface: .0005 193) Surface: .0005 194) Surface: .0005 195) Surface: .0005 196) Surface: .0005 197) Surface: .0005 198) Surface: .0005 199) Surface: .0005 200) Surface: .0005 201) Surface: .0005 202) Surface: .0005 203) Surface: .0005 204) Surface: .0005 205) Surface: .0005 206) Surface: .0005 207) Surface: .0005 208) Surface: .0005 209) Surface: .0005 210) Surface: .0005 211) Surface: .0005 212) Surface: .0005 213) Surface: .0005 214) Surface: .0005 215) Surface: .0005 216) Surface: .0005 217) Surface: .0005 218) Surface: .0005 219) Surface: .0005 220) Surface: .0005 221) Surface: .0005 222) Surface: .0005 223) Surface: .0005 224) Surface: .0005 225) Surface: .0005 226) Surface: .0005 227) Surface: .0005 228) Surface: .0005 229) Surface: .0005 230) Surface: .0005 231) Surface: .0005 232) Surface: .0005 233) Surface: .0005 234) Surface: .0005 235) Surface: .0005 236) Surface: .0005 237) Surface: .0005 2			

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

STAMPED CONTACT PART NUMBER 1005=PIN 1006=SOCKET	SIZE	CONDUCTOR WIRE SIZE	CRIMP HEIGHT	CRIMP WIDTH	CONDUCTOR PUNCH NUMBER	CONDUCTOR ANVIL NUMBER	CRIMP TENSILE REFERENCE
A780-14-011x A782-14-011x INSULATION RANGE 0.095-0.150(2.11-3.81)	16	14 AWG	0.055(1.40)	0.094(2.39)	A177-002-0200	A177-101-0200	28(111)
		2.00mm ²	0.055(1.40)	0.094(2.39)			
		1.50mm ²	0.055(1.35)	0.094(2.39)			
		16 AWG	0.050(1.27)	0.094(2.39)			
		1.00mm ²	0.050(1.27)	0.094(2.39)			
A780-16-011x A782-16-011x INSULATION RANGE 0.075-0.140(1.91-3.56)	16	18 AWG	0.048(1.24)	0.094(2.39)	A177-002-0200	A177-101-0200	28(111)
		0.75mm ²	0.048(1.22)	0.094(2.39)			
		14 AWG	0.055(1.40)	0.094(2.39)			
		2.00mm ²	0.055(1.40)	0.094(2.39)			
		1.50mm ²	0.053(1.35)	0.094(2.39)			
A782-16-06x A782-16-06x INSULATION RANGE 0.055-0.100(1.40-2.54)	16	18 AWG	0.048(1.24)	0.094(2.39)	A177-003-0200	A177-103-0200	28(111)
		1.00mm ²	0.050(1.27)	0.094(2.39)			
		16 AWG	0.050(1.27)	0.094(2.39)			
		18 AWG	0.048(1.24)	0.094(2.39)			
		0.75mm ²	0.048(1.22)	0.094(2.39)			

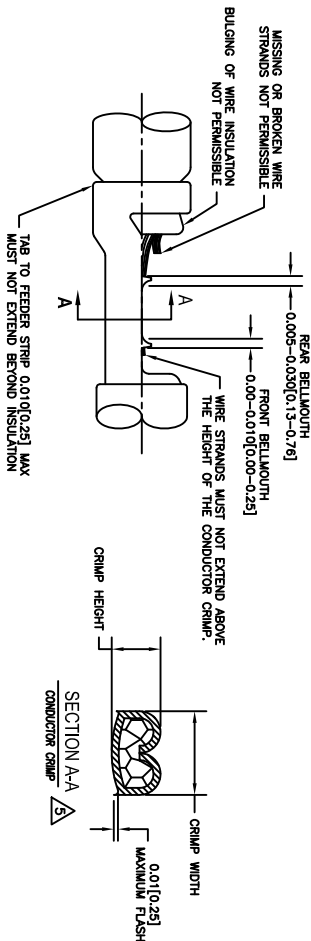
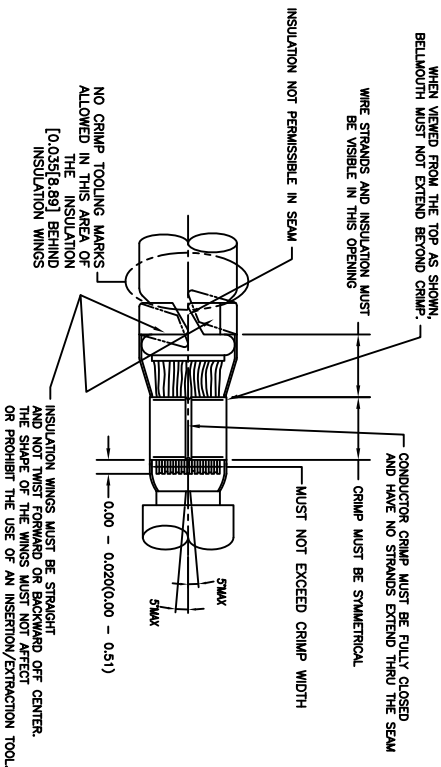
CROSS REFERENCE

INSULATION DIAMETER RANGE	INSULATION PUNCH NUMBER	INSULATION ANVIL NUMBER
0.120-0.150	A177-210-0200	A177-316-0200
0.105-0.125	A177-211-0200	A177-317-0200
0.085-0.111	A177-213-0200	A177-318-0200
0.075-0.105	A177-214-0200	A177-319-0200
0.065-0.094	A177-215-0200	A177-320-0200
0.050-0.075	A177-216-0200	A177-321-0200

SINE PART NUMBER	DEUTSCH PART NUMBER
MFX-3950	DC16-02-00
A177-002-0200	1017-002-0200
A177-003-0200	1017-003-0200
A177-101-0200	1017-101-0200
A177-103-0200	1017-103-0200
A177-210-0200	1017-210-0200
A177-211-0200	1017-211-0200
A177-213-0200	1017-213-0200
A177-214-0200	1017-214-0200
A177-215-0200	1017-215-0200
A177-216-0200	1017-216-0200
A177-217-0200	1017-217-0200
A177-218-0200	1017-218-0200
A177-310-0200	1017-310-0200
A177-311-0200	1017-311-0200
A177-313-0200	1017-313-0200
A177-314-0200	1017-314-0200
A177-316-0200	1017-316-0200
A177-317-0200	1017-317-0200
A177-318-0200	1017-318-0200

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS ARE IN INCHES(mm).
2. FORCES ARE IN POUNDS(LBS) AND NEWTONS(N).
3. "X"= PLATING SUFFX. SEE INDIVIDUAL CONTACT DRAWING.
4. WIRE STRIP LENGTH: 0.175±0.029(4.45±0.64). BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE.
5. USE A BLADE MICROMEETER (0.000254) MIN SPINDLE AND 0.060(0.010)(1.500(0.040) ANVIL) TO MEASURE THE CONDUCTOR CRIMP. SEE SECTION AA.
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 ITS 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 CROMMET SEAL.
9. CONDUCTOR TYPE ARE PER SAEJ1128(AWG) AND ISO 6122(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
UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE		
1) All dimensions are in inches.		DRAWN: RORR		4/7/09		
2) 1 PL. DEC. 50.00 1/16 Precision 51/16		CHECKED: RORR		6/8/09		
3) 1 PL. DEC. 50.00 1/16 Precision 51/16		ENGINEER: BERNU		6/8/09		
4) 1 PL. DEC. 50.00 1/16 Precision 51/16		APPROVAL: BERNU		6/8/09		
MATERIAL SPECIFICATIONS:		CUSTOMER:				
N/A						
PROCESS SPECIFICATIONS:		THE USE OF THIS DRAWING IS LIMITED TO THE SPECIFICATIONS, AND PERFORMANCE PROPERTY OF AMPHENOL CORP. ALL DIMENSIONS ARE SUBJECT TO REMOVAL. DIMENSIONS NOTED OTHERWISE ARE NOT TO BE USED FOR CRIMPING. AMPHENOL CORP. ALL DIMENSIONS NOTED OTHERWISE ARE NOT TO BE USED FOR CRIMPING.				
NEXT ASSY:		SIZE FROM DRAWING NO:		SCALE: NONE		
		C 10K44		S2-15222		
		S2-15222		SHEET 1 OF 1		

SINE Systems Corporation

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

CRIMP DATA, STAMPED CONTACTS
FOR CRIMPER MFX-3950

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

STAMPED CONTACT PART NUMBER 1000=PIN 1000=SOCKET	SIZE	CRIMP HEIGHT	CRIMP WIDTH	CONDUCTOR PUNCH NUMBER	CONDUCTOR ANVIL NUMBER	CRIMP TENSILE REFERENCE
A160-14-011x A162-14-011x INSULATION RANGE 0.095-0.150(2.41-3.81)	14 AWG	0.055(1.40)	0.094(2.39)			
	2.00mm ²	0.055(1.40)	0.094(2.39)			
	1.50mm ²	0.053(1.35)	0.094(2.39)			
	16 AWG	0.050(1.27)	0.094(2.39)	A117-083-0200	A117-183-0200	25(111)
A160-16-011x A162-16-011x INSULATION RANGE 0.075-0.140(1.91-3.56)	16 AWG	0.050(1.27)	0.094(2.39)			
	1.00mm ²	0.050(1.27)	0.094(2.39)			
	18 AWG	0.048(1.24)	0.094(2.39)			
	0.75mm ²	0.048(1.22)	0.094(2.39)			
A160-16-065x A162-16-065x INSULATION RANGE 0.055-0.100(1.40-2.54)	16 AWG	0.050(1.27)	0.079(2.01)			
	1.00mm ²	0.050(1.27)	0.079(2.01)			
	18 AWG	0.048(1.22)	0.079(2.01)			
	20 AWG	0.048(1.22)	0.079(2.01)			

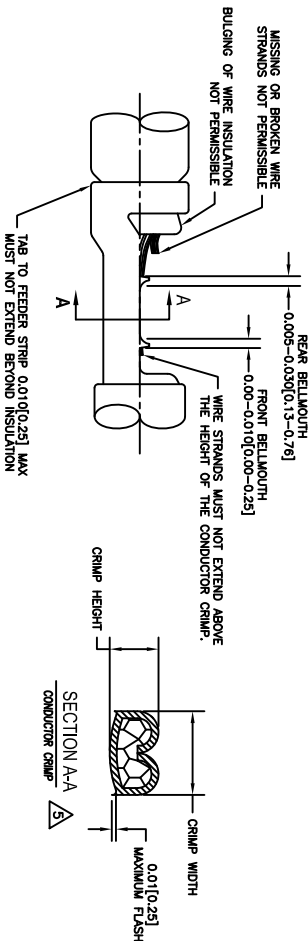
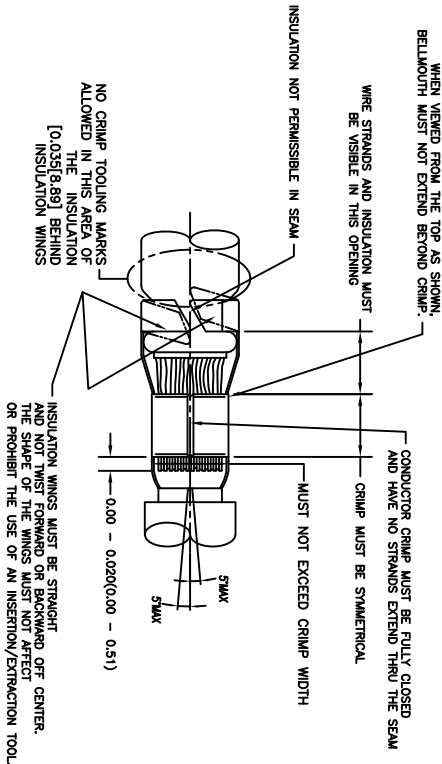
CROSS REFERENCE

INSULATION DIAMETER RANGE	INSULATION PUNCH NUMBER	INSULATION ANVIL NUMBER
0.120-0.150	[3.05-3.81]	A117-225-0200
0.105-0.125	[2.67-3.18]	A117-226-0200
0.085-0.111	[2.16-2.82]	A117-227-0200
0.075-0.105	[1.91-2.67]	A117-228-0200
0.063-0.094	[1.62-2.39]	A117-229-0200
0.050-0.075	[1.27-1.91]	A117-230-0200

SINE PART NUMBER	DEUTSCH PART NUMBER
MPX-3953	DCT1620-02-00
A117-083-0200	1017-083-0200
A117-082-0200	1017-082-0200
A117-183-0200	1017-183-0200
A117-182-0200	1017-182-0200
A117-225-0200	1017-225-0200
A117-226-0200	1017-226-0200
A117-227-0200	1017-227-0200
A117-228-0200	1017-228-0200
A117-229-0200	1017-229-0200
A117-230-0200	1017-230-0200
A117-325-0200	1017-325-0200
A117-326-0200	1017-326-0200
A117-327-0200	1017-327-0200
A117-328-0200	1017-328-0200
A117-329-0200	1017-329-0200
A117-330-0200	1017-330-0200

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS ARE IN INCHES(mm).
2. FORCES ARE IN POUNDS(LBS) AND NEWTONS(N).
3. "X"= PLATING SUFFX. SEE INDIVIDUAL CONTACT DRAWING.
4. WIRE STRIP LENGTH: 0.175±0.029(4.43±0.64). BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE.
5. USE A BLADE MICROMETER (0.0002-54) MIN SPINDLE AND 0.060(0.010)(1.50(0.040) ANVIL) TO MEASURE THE CONDUCTOR CRIMP. SEE SECTION AA.
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 ITS 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 CROMMET SEAL.
9. CONDUCTOR TYPE ARE PER SAEJ1128(AWG) AND ISO 6122(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.

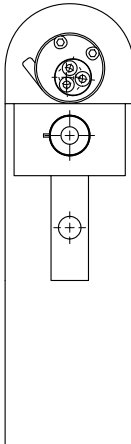


ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

PART NUMBER			DESCRIPTION			ITEM
MATERIALS LIST						
QUANTITY	SIGNATURES		DATE			
UNLESS OTHERWISE SPECIFIED						
1) All dimensions are in inches.	DRAWN: POKR		4/7/09	SINE Systems Corporation A Subsidiary of Amphenol Corporation 44724 Morley Drive Clinton Township, MI 48036		
2) 1 PL. DEC. 50.00	ORDERED: POKR		6/8/09			
3) 1 PL. DEC. 50.00	APPROVED: BERUM		6/8/09			
4) 1 PL. DEC. 50.00	APPROVED: BERUM		6/8/09			
5) 1 PL. DEC. 50.00	APPROVED: BERUM		6/8/09			
6) 1 PL. DEC. 50.00	APPROVED: BERUM		6/8/09			
CRIMP DATA, STAMPED CONTACTS FOR CRIMPER MFX-3953						
PROCESS SPECIFICATIONS:	N/A					
THE USE OF THIS DOCUMENT IS SPECIFIC TO THE PART AND PROCESSING INFORMATION SHOWN. ANY DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING V						

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

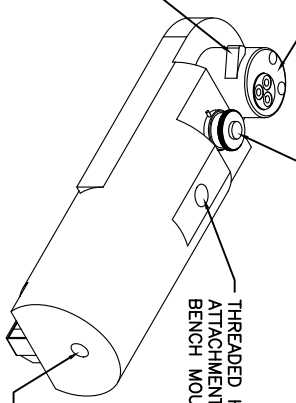
CONTACT LOCATOR "TURRET"
THREE POSITION FOR SIZE
12, 16 & 20 MALE AND
FEMALE CONTACTS



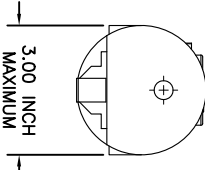
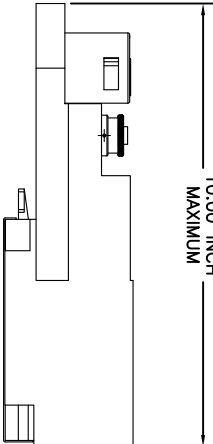
"TURRET"
RELEASE LATCH

SELECTOR FOR
CRIMP SETTING

THREADED HOLE FOR
ATTACHMENT OF
BENCH MOUNT FIXTURE



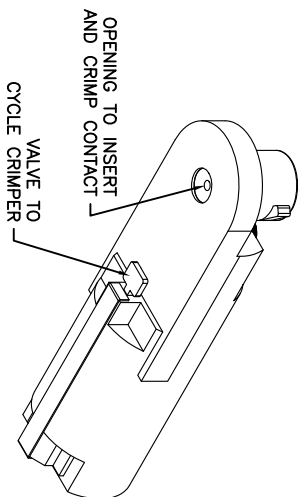
10.00 INCH
MAXIMUM



3.00 INCH
MAXIMUM

THREADED OPENING
FOR COMPRESSED
AIR FITTING

- 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.



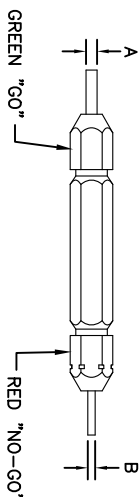
OPENING TO INSERT
AND CRIMP CONTACT

VALVE TO
CYCLE CRIMPER

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

GAGING INSTRUCTIONS

CAUTION!
DO NOT CRIMP GAGE!

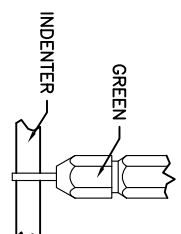


GREEN "GO"

RED "NO-GO"

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

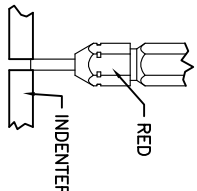
"NO-GO" GAGING: OPERATE TOOL TO FULLY CLOSED POSITION. INSERT "NO-GO" GAGE END AS SHOWN. THE "NO-GO" MAY PARTIALLY ENTER THE INDENTER OPENING, BUT MUST NOT PASS COMPLETELY THROUGH THE OPENING.



GREEN

INDENTER

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	.0680	.0730



RED

INDENTER

CONTACT SIZE		SELECTOR NUMBER							
CONTACT SIZE	LOCATOR "TURRET" POSITION	26	24	22	20	18	16	14	12
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	

QUANTITY		PART NUMBER		DESCRIPTION		ITEM
UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE		
1) All dimensions are in inches.		DESIGN: BERNIM		6/2/09		
2) All dimensions are in inches.		CHECKED: FROCK		6/3/09		
3) All dimensions are in inches.		ENGINEER: BERNIM		6/3/09		
4) All dimensions are in inches.		APPROVAL: BERNIM		6/3/09		
5) All dimensions are in inches.		CUSTOMER: BERNIM		6/3/09		
6) All dimensions are in inches.		THE USE OF THIS DOCUMENT IS		SPECIFICATIONS, AND PERFORMANCE		
7) All dimensions are in inches.		PROPERTY OF AMPHENOL CORP. ALL		DIMENSIONS ARE SUBJECT TO REVISION		
8) All dimensions are in inches.		DOCUMENTS RETAINED HEREON MAY		CONTAIN UNCLASSIFIED INFORMATION		
9) All dimensions are in inches.		MATERIAL SPECIFICATIONS:		N/A		
10) All dimensions are in inches.		PROCESS SPECIFICATIONS:		N/A		
11) All dimensions are in inches.		NEXT ASSY:		N/A		
12) All dimensions are in inches.		SIZE: 1/2" DIA. HOLE		S2-15220		
13) All dimensions are in inches.		SCALE: NONE		S2-15220		
14) All dimensions are in inches.		SHEET: 1 OF 1		A1		

SINE Systems Corporation

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

INSTRUCTIONS FOR CA-5E12
CRIMPER, PNEUMATIC

REVISIONS			
REV	ZONE	ECO	DESCRIPTION
1	-	-	RELEASE NUMBER 016571
DATE	6/12/09	BY	M.S.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.

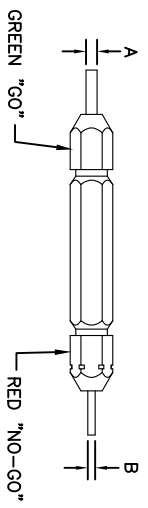
9.75 INCH MAXIMUM

1.00 INCH MAX.

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

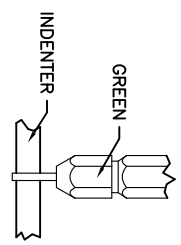
GAGING INSTRUCTIONS

CAUTION!
DO NOT CRIMP GAGE!

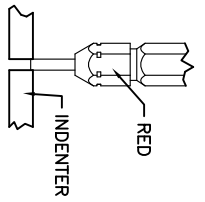


"GO" GAGING: OPERATE TOOL TO FULLY CLOSED POSITION. INSERT "GO" GAGE END AS SHOWN. GAGE MUST PASS FREELY BETWEEN INDENTER TIPS.

"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	.0680	.0730



CONTACT SIZE		SELECTOR NUMBER							
CONTACT SIZE		26	24	22	20	18	16	14	12
"TURRET" POSITION									
COLOR									
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	

- 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.

QUANTITY		PART NUMBER		DESCRIPTION		ITEM								
MATERIALS LIST														
SIGNATURES														
DRAWN: BERLIN		DATE: 6/3/09		SINE Systems Corporation A Subsidiary of Amphenol Corporation 44724 Moley Drive Canton Township, MI 48036										
CHECKED: FINCK		DATE: 6/3/09												
ENGINEER: BERLIN		DATE: 6/3/09												
APPROVAL: BERLIN														
CUSTOMER: BERLIN														
THE USE OF THIS DRAWING IS SPECIFIC TO THE PART AND THE PROPERTY OF AMPHENOL CORP. ALL DOCUMENTS RETURNED HEREON MAY CONTAIN UNCLASSIFIED DATA.														
PROCESS SPECIFICATIONS:		SIZE TYPICAL		INSTRUCTIONS FOR CA-5D12 CRIMPER, HAND, MACHINED CONTACTS										
N/A		C 10K44		S2-15219										
NEXT ASSY:		SCALE: NONE		S2-15219										
				SHEET 1 OF 1										

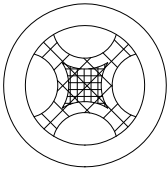
REVISIONS				
REV	ZONE	ECO	DESCRIPTION	
1			RELEASE NUMBER 016571	
DATE	BY	APPR		
6/12/09	B.D.B.	M.R.F.		

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	25[111]
A		0.75mm ² 20AWG	20[89]
		0.50mm ²	

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

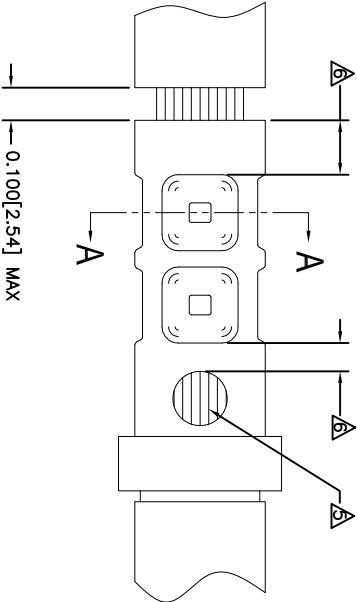
CRIMP TOOLING					
CONTACT SIZE	CRIMP TOOL PART NUMBER	CONTACT LOCATOR "TURRET" POSITION	WIRE SELECTOR NUMBER	GO GAGE INCH[MM]	"NOGO" GAGE INCH[MM]
16	CA-5D12 CA-5E12	BLUE	6	0.052[1.32]	0.057[1.45]
16	CA-5D12 CA-5E12	BLUE	4	0.039[.991]	0.044[1.12]

- NOTES: UNLESS OTHERWISE SPECIFIED
- MINIMUM +/-0.0005 [0.013] TOLERANCE STEEL GAGE PINS. DO NOT CRIMP GAGE PINS. CLOSE DIE, THEN USE GAGE PINS.
 - WHEN XX=31, CONTACT PLATING IS GOLD WHEN XX=141, CONTACT PLATING IS NICKEL
 - PULL RATE OF 1.0 IN [25.4] PER MINUTE. ACTUAL STRENGTH DEPENDS ON WIRE SIZE.
 - FOR CONTACT PERFORMANCE, MATERIAL SPECIFICATIONS AND APPLICATION DETAILS, SEE DRAWING S2-15217.
 - CONDUCTOR STRANDS MUST BE VISIBLE THRU THE INSPECTION HOLE PRIOR TO CRIMP.
 - PROPER CRIMP TOOLING WILL PRODUCE A CRIMP CENTERED BETWEEN THE INSPECTION HOLE AND CRIMP BARREL END.
 - 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.
 - THE CRIMP HEIGHT DIMENSION AFTER CRIMPING MAY VARY FROM THE VALUES LISTED FOR THE "GO-NOGO" PINS.



SECTION A-A

CRIMP CROSS-SECTION



QUANTITY		PART NUMBER		DESCRIPTION		ITEM
MATERIALS LIST						
UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE		
1) All dimensions are in inches.		DRAWN: BERNIM		6/3/09		
2) Dimensions in parentheses are minimum values.		CHECKED: TROCE		6/3/09		
3) Dimensions in square brackets are maximum values.		ENGINEER: BERNIM		6/3/09		
4) Production Standards Per: SS-20020		APPROVAL: BERNIM		6/3/09		
5) Material Specifications:		CUSTOMER:				
N/A		THE USE OF THIS DOCUMENT IS LIMITED TO THE SPECIFICATIONS, AND PERFORMANCE OF THE PARTS AND MATERIALS SPECIFIED HEREIN. NO OTHER USES ARE PERMITTED WITHOUT THE WRITTEN PERMISSION OF AMPHENOL CORPORATION. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. DRAWING IS NOT TO BE USED FOR REPRODUCTION WITHOUT THE WRITTEN PERMISSION OF AMPHENOL CORPORATION. AMPHENOL CORPORATION IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING.				
PROCESS SPECIFICATIONS:		SOLID MACHINED CONTACTS				
NEXT ASS'Y:		CRIMP INFORMATION				
		S2-15218				
		SHEET 1 OF 1				
		REVISION A1				

REVISIONS				
REV	ZONE	ECO	DESCRIPTION	DATE
A1	-	-	RELEASE NUMBER 016371	6/12/09
BY	APP			
B.D.B.	M.R.F.			

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SOLID CONTACT SIZE	SOLID CONTACT PART NUMBERS		WIRE SIZE AWG(mm ²)	RECOMMENDED STRIP LENGTH INCH (mm)	MIN CONTACT RETENTION LBS (N)	REF CRIMP RETENTION 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 [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 RETENTION 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 [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

MATERIAL SPECIFICATION
AND PLATING ** CODES

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

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(25.4) 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	16	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
MATERIALS LIST			
UNLESS OTHERWISE SPECIFIED			
1) All dimensions are in inches.			
2) Plating is standard unless otherwise specified.			
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