

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)

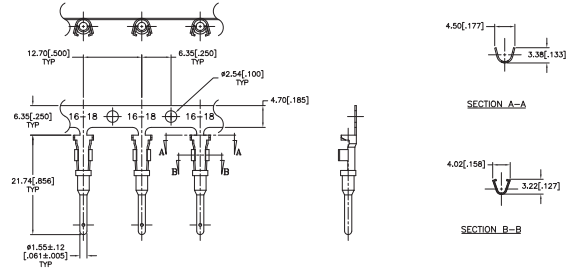


STAMPED AND FORMED CONTACTS, PG 2 of 2

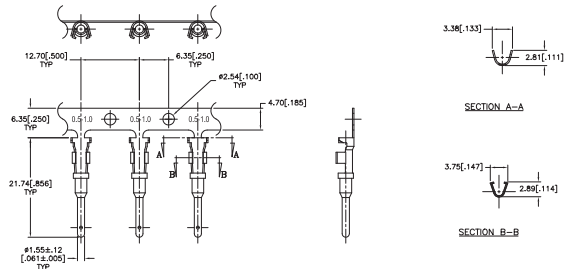
Click on [blue underlined part numbers](#) to be taken to their spec sheets.

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

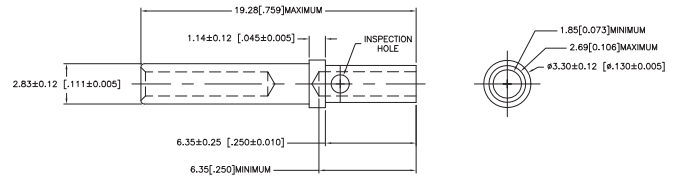


PART NUMBER: [AT62-201-16XX](#)
DESCRIPTION: CONTACT, SOCKET, SOLID MACHINED, SIZE 16
MATERIAL:
 CONTACT BODY: COPPER ALLOY
 HOOD: STAINLESS STEEL
PLATING SUFFIX CODE:
 XX=141 NICKEL PLATING
 XX=31 GOLD PLATING
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER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



ROCKSOLID™ CONTACTS

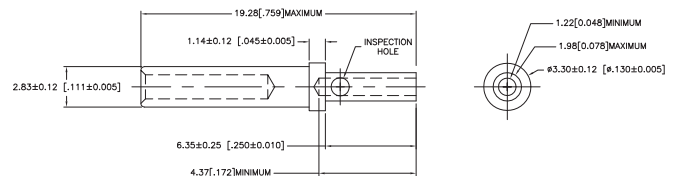
PART NUMBER: [65-54942-14](#)
DESCRIPTION: CONTACT, SOCKET, ROCKSOLID, SIZE 16
AWG RANGE: 14AWG
MATERIAL: COPPER ALLOY
PLATING: GOLD
CONTACT GENERAL DATA SPECIFICATION: S2-15217
AVAILABLE CRIMPERS: CA-5D12 & CA-5E12
CRIMPER SPECIFICATIONS: S2-15219 & S2-15220
CRIMP INFORMATION DRAWING: S2-15218



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



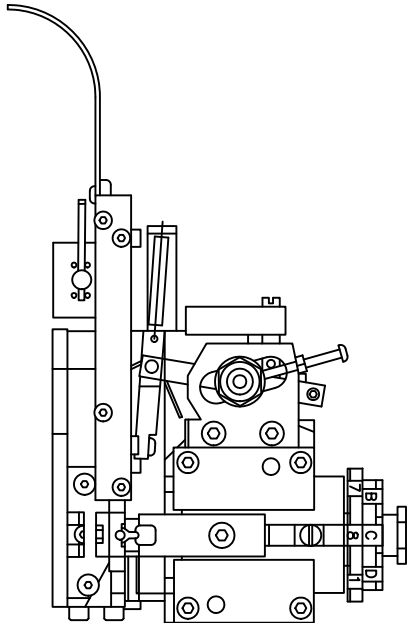
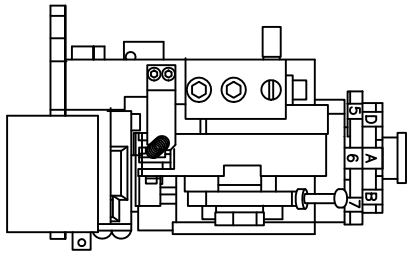
4

3

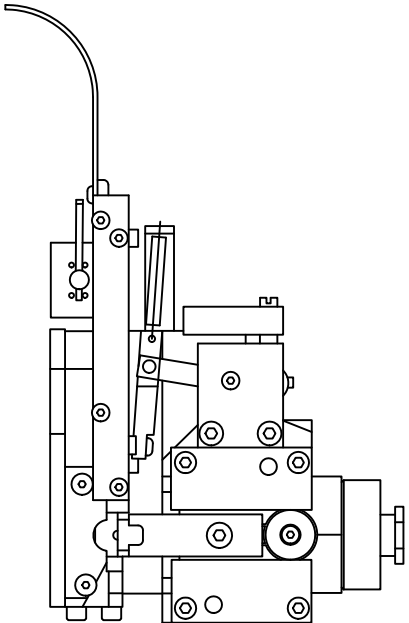
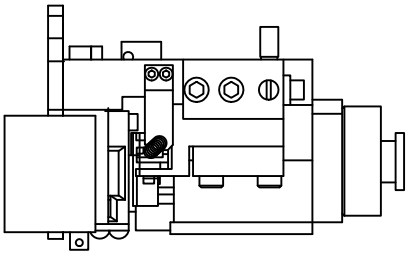
2

1

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
----------	-------------	-------------	------

UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE	
1) All dimensions are in inches.	DESIGNED: BERNIM	BERNIM	BERNIM	6/9/09	6/9/09
2) Fit: DEC 30:00	CHECKED: TRICE	TRICE	BERNIM	6/9/09	
3) Fit: DEC 30:00	ENGINEER: BERNIM		BERNIM	6/9/09	
4) Fabrication Standards Per: SS-20020	APPROVAL: BERNIM		BERNIM	6/9/09	
5) Tolerances: U	CUSTOMER: M/A				

CRIMPER INFORMATION
 MFX-3950 & MFX-3953
 A Subsidiary of Amphenol Corporation
 44724 Mowley Drive
 Clinton Township, MI 48036

THE USE OF THIS PRODUCT IS LIMITED TO THE SPECIFICATIONS AND PERFORMANCE CHARACTERISTICS AS SHOWN ON THIS DRAWING. ALL DIMENSIONS ARE SUBJECT TO NORMAL TOLERANCES UNLESS OTHERWISE SPECIFIED. ALL DOCUMENTS REFERENCED HEREON MAY CONTAIN RESTRICTED RIGHTS DATA.

SIZE: **10K44**
 SCALE: NONE
 SHEET: 1 OF 1

A

B

C

D

4

3

2

1

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

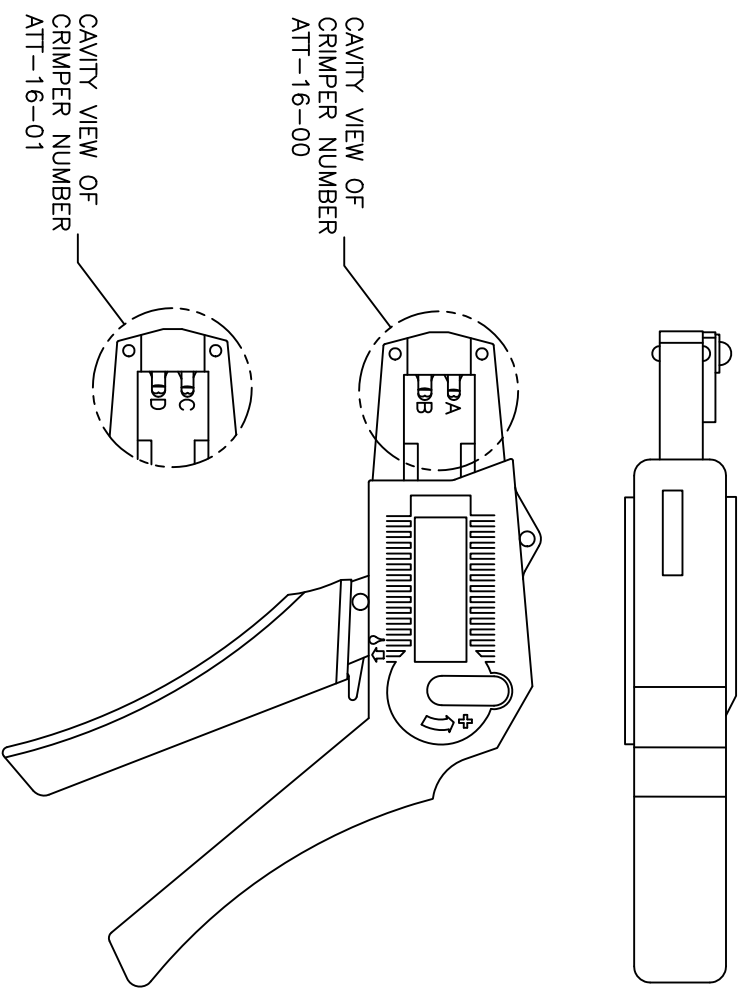
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NUMBER 016571	6/12/09	B.D.B.	M.R.F.

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 PROPERTY OF AMPHENOL CORP. ALL DIMENSIONS AND TOLERANCES ARE THE PROPERTY OF AMPHENOL CORPORATION. DOCUMENTS REFERENCED HEREON MAY CONTAIN UNLIMITED VARIATIONS.	THE USE OF THIS DOCUMENT IS UNLIMITED. DESIGN FEATURES, SPECIFIC DATA SHOWN, METHOD AND THE PROPERTY OF AMPHENOL CORP. ALL DIMENSIONS AND TOLERANCES ARE THE PROPERTY OF AMPHENOL CORPORATION. DOCUMENTS REFERENCED HEREON MAY CONTAIN UNLIMITED VARIATIONS.
AMPHENOL CORPORATION CENTRAL LIMITED LIABILITY DIV.	AMPHENOL CORPORATION CENTRAL LIMITED LIABILITY DIV.

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

4

3

2

1

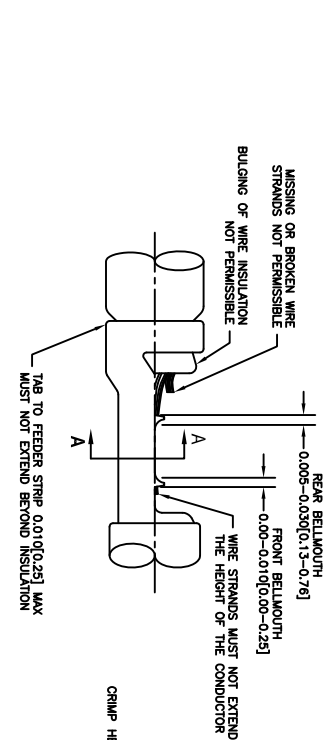
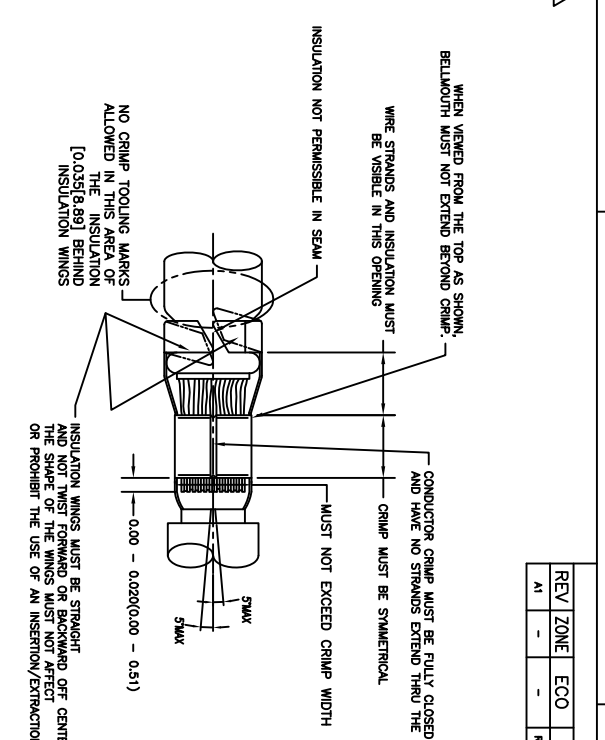
STAMPED CONTACT PART NUMBER 1068=PIN 1062=SOCKET	SIZE	CONDUCTOR WIRE SIZE	CRIMP HEIGHT	CRIMP WIDTH	CONDUCTOR PUNCH NUMBER	CONDUCTOR ANVIL NUMBER	CRIMP TENSILE REFERENCE
A780-14-011x	16	14 AWG	0.055(1.40)	0.094(2.39)			
A782-14-011x	16	18 AWG	0.059(1.53)	0.094(2.39)	AT17-002-0200	AT17-101-0200	29(111)
INSULATION RANGE 0.095-0.150(2.41-3.81)		1.00mm ²	0.059(1.27)	0.094(2.39)			
		18 AWG	0.049(1.22)	0.094(2.39)			
A780-16-011x	16	14 AWG	0.059(1.40)	0.094(2.39)			
A782-16-011x	16	18 AWG	0.059(1.27)	0.094(2.39)	AT17-002-0200	AT17-101-0200	29(111)
INSULATION RANGE 0.075-0.140(1.91-3.56)		1.00mm ²	0.059(1.27)	0.094(2.39)			
		18 AWG	0.049(1.22)	0.094(2.39)			
A780-16-06x	16	18 AWG	0.059(1.27)	0.079(2.01)			
A782-16-06x	16	20 AWG	0.049(1.22)	0.079(2.01)	AT17-003-0200	AT17-103-0200	29(111)
INSULATION RANGE 0.055-0.100(1.40-2.54)		0.50mm ²	0.049(1.14)	0.079(2.01)			15(67)

CROSS REFERENCE

SINE PART NUMBER	DEUTSCH PART NUMBER
MX-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

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. ALL DIMENSIONS ARE IN INCHES(mm).
- 2. FORCES ARE IN POUNDS(LBS) AND NEWTONS(N).
- 3. "X"= PLATING SUFFIX. SEE INDIVIDUAL CONTACT DRAWING.
- 4. WIRE STRIP LENGTH: 0.175±0.029(4.45±0.74) BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE.
- 5. USE A BLADE MICRO-METER (0.100(2.54) MIN SPEED 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(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.
- 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 TEFION INSULATION MAY BE AN EXCEPTION). INSULATION CRIMP SHALL NOT AFFECT REMOVAL TOOL PERFORMANCE AND SHALL NOT DAMAGE CONNECTOR BROWNIE SEAL.
- 9. CONDUCTOR TYPE ARE PER SAE J128(AWG) AND ISO 6122(W/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 MATERIALS LIST DESCRIPTION ITEM

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
1) All dimensions are in inches.	DRAWN: [Signature]	4/7/09
2) Per ISO 5400 1	CHECKED: [Signature]	6/8/09
3) Per ISO 5401 1	ENGINEER: [Signature]	6/8/09
4) Per ISO 5402 1	APPROVED: [Signature]	6/8/09
5) Production Standard Per: [Signature]	CUSTOMER: [Signature]	

PROCESS SPECIFICATIONS	THE USE OF THIS DRAWING IS SPECIFIC TO THE DESIGN AND PERFORMANCE OF THIS CONTACT. ANY REVISIONS ARE SUBJECT TO REMOVAL AND MUST BE APPROVED BY THE DESIGNER. ALL DIMENSIONS ARE IN UNLESS OTHERWISE SPECIFIED IN INCHES.
SIZE: [Signature]	SCALE: NONE
DATE: [Signature]	
REV: A1	
BY: [Signature]	
DATE: [Signature]	

4

3

2

1

REVISEMENTS

REV	ZONE	ECO	DESCRIPTION	DATE	BY	APP
A1			RELEASE NUMBER 016971	6/12/09	B.D.B.	M.F.F.

CRIMP DATA, STAMPED CONTACTS

DWG NO: S2-15222

DATE: 6/8/09

BY: [Signature]

DATE: 6/8/09

REV: A1

BY: [Signature]

DATE: 6/8/09

REVISIONS						
REV	ZONE	ECO	DESCRIPTION	DATE	BY	APP
A1	-	-	RELEASE NUMBER 016971	6/12/09	B.D.B.	M.F.F.

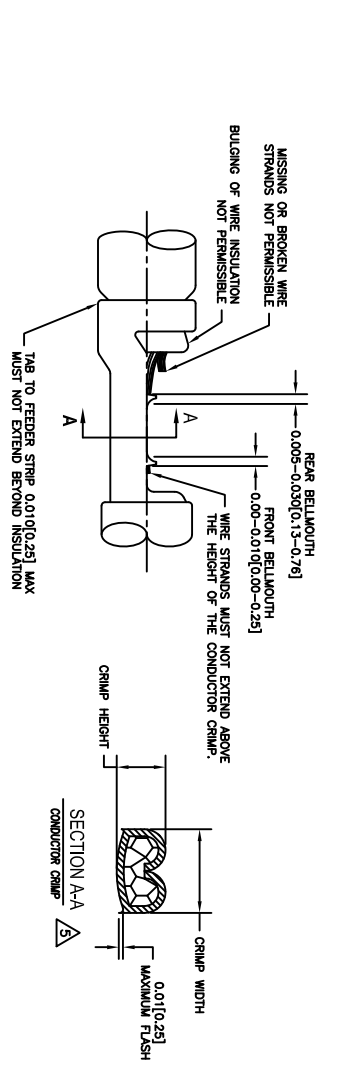
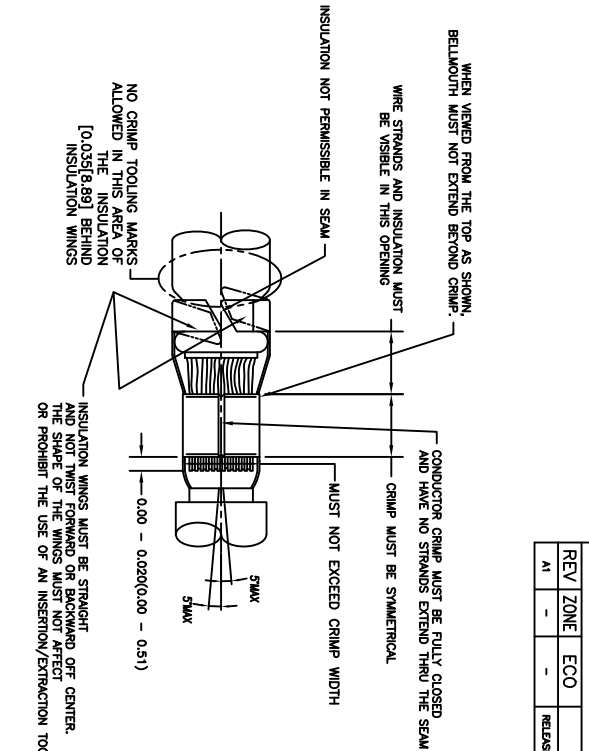
STAMPED CONTACT PART NUMBER (1009=PIN 1009=SOCKET)	SIZE	CONDUCTOR WIRE SIZE	CRIMP HEIGHT +0.001/+0.002 INCH +0.025/+0.05 mm	CRIMP WIDTH ±0.003 INCH ±0.08 mm	CONDUCTOR PUNCH NUMBER	CONDUCTOR ANVIL NUMBER	CRIMP TENSILE REFERENCE (LBS/IN)
A160-14-01xx A162-14-01xx INSULATION RANGE 0.095-0.150(2.41-3.81)	16	14 AWG 2.00mm ² 1.50mm ² 16 AWG 1.00mm ² 18 AWG	0.0591(+.40) 0.0591(+.40) 0.0591(+.39) 0.0501(+.27) 0.0491(+.24)	0.094(+.28) 0.094(+.28) 0.094(+.28) 0.094(+.28) 0.094(+.28)		A117-4083-0200 A117-183-0200	291(111)
A160-16-01xx A162-16-01xx INSULATION RANGE 0.075-0.140(1.91-3.59)	16	14 AWG 2.00mm ² 1.50mm ² 16 AWG 1.00mm ² 18 AWG 0.75mm ²	0.0591(+.40) 0.0591(+.40) 0.0591(+.39) 0.0501(+.27) 0.0491(+.24) 0.0491(+.22)	0.094(+.28) 0.094(+.28) 0.094(+.28) 0.094(+.28) 0.094(+.28) 0.084(+.26)		A117-4083-0200 A117-183-0200	291(111)
A160-16-06xx A162-16-06xx INSULATION RANGE 0.055-0.100(1.40-2.54)	16	16 AWG 1.00mm ² 0.75mm ² 20 AWG 0.50mm ²	0.0501(+.27) 0.0491(+.24) 0.0491(+.22) 0.0491(+.22)	0.079(+.26) 0.079(+.26) 0.079(+.26) 0.079(+.26)		A117-4083-0200 A117-182-0200	291(111) 19(67)

CROSS REFERENCE

INSULATION DIAMETER RANGE	INSULATION PUNCH NUMBER	INSULATION ANVIL NUMBER	SINE PART NUMBER	DEUTSCH PART NUMBER
0.120-0.150 [3.05-3.81]	A117-229-0200	A117-326-0200	MPX-3953	DCT1620-02-00
0.105-0.125 [2.67-3.18]	A117-229-0200	A117-326-0200	A117-083-0200	1017-083-0200
0.085-0.111 [2.16-2.82]	A117-229-0200	A117-327-0200	A117-082-0200	1017-082-0200
0.075-0.105 [1.91-2.67]	A117-229-0200	A117-328-0200	A117-183-0200	1017-183-0200
0.063-0.094 [1.62-2.39]	A117-229-0200	A117-328-0200	A117-182-0200	1017-182-0200
0.050-0.075 [1.27-1.91]	A117-230-0200	A117-330-0200	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

- 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±0.029(+.45±0.04). BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE. USE A BLADE MICROMETER (0.100[2.54] MIN SPINDLE AND 0.060[0.010][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(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 TEFION INSULATION MAY BE AN EXCEPTION). INSULATION CRIMP SHALL NOT AFFECT REMOVAL TOOL PERFORMANCE AND SHALL NOT DAMAGE CONNECTOR GROMMET SEAL.
- CONDUCTOR TYPE ARE PER SAEU1128(AWG) AND ISO 6122(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	DESCRIPTION	ITEM
UNLESS OTHERWISE SPECIFIED	MATERIALS LIST		
1) All dimensions are in inches.	SIGNATURES		
2) All dimensions are in millimeters.	DATE	DATE	
3) For SAE 30301 and 30302 use SAE 30301 and 30302.	DRWGR	FORGR	4/7/09
4) For SAE 30301 and 30302 use SAE 30301 and 30302.	CHKDR	FORGR	6/8/09
5) Reduction Standard Per: ASME Y14.1	ENGR	BERNIM	6/8/09
6) For SAE 30301 and 30302 use SAE 30301 and 30302.	APPROV	BERNIM	6/8/09
7) For SAE 30301 and 30302 use SAE 30301 and 30302.	CUSTOMER		

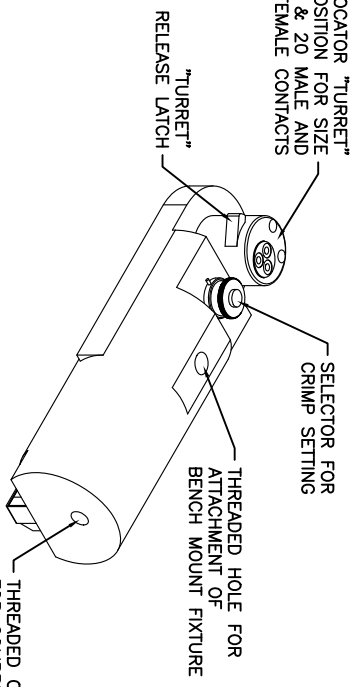
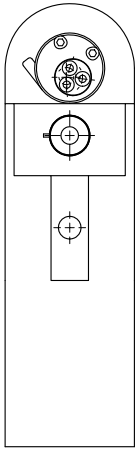
CRIMP DATA, STAMPED CONTACTS FOR CRIMPER MPX-3953

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

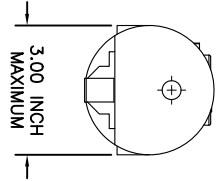
PROCESS SPECIFICATIONS	THE USE OF THIS DRAWING IS SPECIFIC TO THE PART NUMBER AND PERFORMANCE DATA. ALL DIMENSIONS ARE SUBJECT TO NORMAL DIMENSIONAL VARIATION UNLESS OTHERWISE SPECIFIED HEREON. ANY DIMENSIONS NOT SHOWN ARE AS SHOWN ON THE DRAWING.	SIZE	SCALE	SHEET	OF
MA		C	1:1	1	1
MA		C	1:1	1	1

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

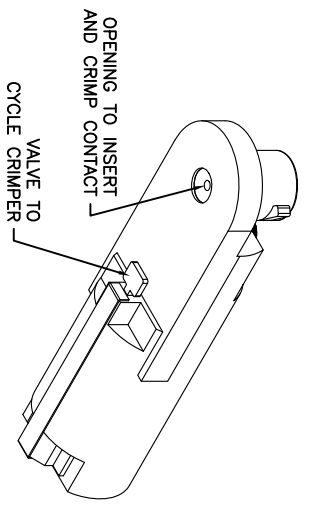
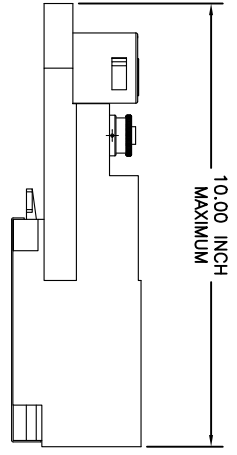
CONTACT LOCATOR "TURRET"
THREE POSITION FOR SIZE
12, 16 & 20 MALE AND
FEMALE CONTACTS



THREADED OPENING FOR COMPRESSED AIR FITTING



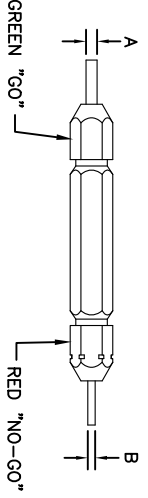
- NOTES:
1. THE CA-5E12 IS A COMPRESSED AIR OPERATED HAND CRIMPER FOR ELECTRICAL CONTACTS. IT IS ADJUSTABLE TO 3 CONTACT SIZES (12, 16 & 20) AND 8 INDENTER CRIMP POSITIONS FOR DIFFERENT WIRE SIZES (12AWG THRU 26 AWG).
2. 80-120 PSI COMPRESSED AIR.
3. WEIGHT: 3.1 LBS
4. SELECTING CONTACT SIZE: PRESS THE 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.



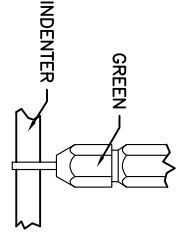
GAGE PART NO.	A GO DIA.	B NO-GO DIA.	SELECTOR NUMBER
G125	.0390	.0440	4

GAGING INSTRUCTIONS

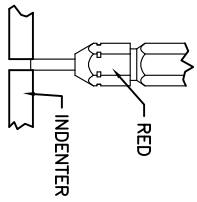
CAUTION!
DO NOT CRIMP GAGE!



"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	LOCATOR "TURRET" POSITION	WIRE COLOR	SELECTOR NUMBER		
20-20	RED	1	2	3	4
16-22	BLUE	4	5	6	
16-20	BLUE	1	2	3	
16-16	BLUE	4	5	6	
12-16	YELLOW	4	5	6	
12-12	YELLOW			7	8

QUANTITY	PART NUMBER	DESCRIPTION	ITEM

MATERIALS LIST			
UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	
1) All dimensions are in inches.			
2) R.500 3.000 1 Position 3/1/14	BERNUM	6/2/09	
3) R.500 3.000 1 Position 3/1/14	RONCE	6/3/09	
4) Revision Standard Per:	BERNUM		
5) Rev. SS-20020	BERNUM	6/3/09	
APPROVAL:			
CUSTOMER:			

SINE Systems Corporation			
A Subsidiary of Amphiphol Corporation 44724 Mowley Drive Canton Township, MI 48036			
INSTRUCTIONS FOR CA-5E12 CRIMPER, PNEUMATIC			
SIZE	SCALE	REVISION	
10K/4	NONE	S2-15220	A1
PROCESS SPECIFICATIONS			
NEXT ASSY:			

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

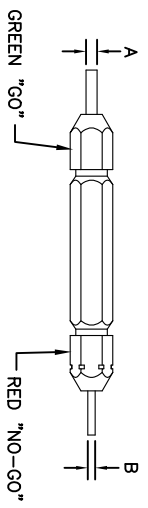
1.00 INCH MAX.

- 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

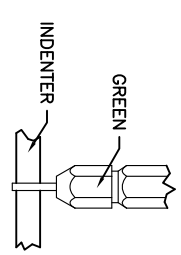
GAGING INSTRUCTIONS

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 MATERIALS LIST DESCRIPTION ITEM

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
1) All dimensions are in inches.	DESIGN: BERNIM	6/3/09
2) All tolerances are as shown.	CHECKER: RONE	6/3/09
3) Pl. SEC. 30.00 1 Position 3.1/4"	ENGINEER: BERNIM	6/3/09
4) Pl. SEC. 30.00 1 Position 3.1/4"	APPROVAL: BERNIM	6/3/09
5) Fabrication Standard: Per: A	CUSTOMER: _____	
6) Pl. SEC. 30.00 1 Position 3.1/4"		
7) Pl. SEC. 30.00 1 Position 3.1/4"		
8) Pl. SEC. 30.00 1 Position 3.1/4"		
9) Pl. SEC. 30.00 1 Position 3.1/4"		
10) Pl. SEC. 30.00 1 Position 3.1/4"		
11) Pl. SEC. 30.00 1 Position 3.1/4"		
12) Pl. SEC. 30.00 1 Position 3.1/4"		
13) Pl. SEC. 30.00 1 Position 3.1/4"		
14) Pl. SEC. 30.00 1 Position 3.1/4"		
15) Pl. SEC. 30.00 1 Position 3.1/4"		
16) Pl. SEC. 30.00 1 Position 3.1/4"		
17) Pl. SEC. 30.00 1 Position 3.1/4"		
18) Pl. SEC. 30.00 1 Position 3.1/4"		
19) Pl. SEC. 30.00 1 Position 3.1/4"		
20) Pl. SEC. 30.00 1 Position 3.1/4"		
21) Pl. SEC. 30.00 1 Position 3.1/4"		
22) Pl. SEC. 30.00 1 Position 3.1/4"		
23) Pl. SEC. 30.00 1 Position 3.1/4"		
24) Pl. SEC. 30.00 1 Position 3.1/4"		
25) Pl. SEC. 30.00 1 Position 3.1/4"		
26) Pl. SEC. 30.00 1 Position 3.1/4"		
27) Pl. SEC. 30.00 1 Position 3.1/4"		
28) Pl. SEC. 30.00 1 Position 3.1/4"		
29) Pl. SEC. 30.00 1 Position 3.1/4"		
30) Pl. SEC. 30.00 1 Position 3.1/4"		
31) Pl. SEC. 30.00 1 Position 3.1/4"		
32) Pl. SEC. 30.00 1 Position 3.1/4"		
33) Pl. SEC. 30.00 1 Position 3.1/4"		
34) Pl. SEC. 30.00 1 Position 3.1/4"		
35) Pl. SEC. 30.00 1 Position 3.1/4"		
36) Pl. SEC. 30.00 1 Position 3.1/4"		
37) Pl. SEC. 30.00 1 Position 3.1/4"		
38) Pl. SEC. 30.00 1 Position 3.1/4"		
39) Pl. SEC. 30.00 1 Position 3.1/4"		
40) Pl. SEC. 30.00 1 Position 3.1/4"		
41) Pl. SEC. 30.00 1 Position 3.1/4"		
42) Pl. SEC. 30.00 1 Position 3.1/4"		
43) Pl. SEC. 30.00 1 Position 3.1/4"		
44) Pl. SEC. 30.00 1 Position 3.1/4"		
45) Pl. SEC. 30.00 1 Position 3.1/4"		
46) Pl. SEC. 30.00 1 Position 3.1/4"		
47) Pl. SEC. 30.00 1 Position 3.1/4"		
48) Pl. SEC. 30.00 1 Position 3.1/4"		
49) Pl. SEC. 30.00 1 Position 3.1/4"		
50) Pl. SEC. 30.00 1 Position 3.1/4"		
51) Pl. SEC. 30.00 1 Position 3.1/4"		
52) Pl. SEC. 30.00 1 Position 3.1/4"		
53) Pl. SEC. 30.00 1 Position 3.1/4"		
54) Pl. SEC. 30.00 1 Position 3.1/4"		
55) Pl. SEC. 30.00 1 Position 3.1/4"		
56) Pl. SEC. 30.00 1 Position 3.1/4"		
57) Pl. SEC. 30.00 1 Position 3.1/4"		
58) Pl. SEC. 30.00 1 Position 3.1/4"		
59) Pl. SEC. 30.00 1 Position 3.1/4"		
60) Pl. SEC. 30.00 1 Position 3.1/4"		
61) Pl. SEC. 30.00 1 Position 3.1/4"		
62) Pl. SEC. 30.00 1 Position 3.1/4"		
63) Pl. SEC. 30.00 1 Position 3.1/4"		
64) Pl. SEC. 30.00 1 Position 3.1/4"		
65) Pl. SEC. 30.00 1 Position 3.1/4"		
66) Pl. SEC. 30.00 1 Position 3.1/4"		
67) Pl. SEC. 30.00 1 Position 3.1/4"		
68) Pl. SEC. 30.00 1 Position 3.1/4"		
69) Pl. SEC. 30.00 1 Position 3.1/4"		
70) Pl. SEC. 30.00 1 Position 3.1/4"		
71) Pl. SEC. 30.00 1 Position 3.1/4"		
72) Pl. SEC. 30.00 1 Position 3.1/4"		
73) Pl. SEC. 30.00 1 Position 3.1/4"		
74) Pl. SEC. 30.00 1 Position 3.1/4"		
75) Pl. SEC. 30.00 1 Position 3.1/4"		
76) Pl. SEC. 30.00 1 Position 3.1/4"		
77) Pl. SEC. 30.00 1 Position 3.1/4"		
78) Pl. SEC. 30.00 1 Position 3.1/4"		
79) Pl. SEC. 30.00 1 Position 3.1/4"		
80) Pl. SEC. 30.00 1 Position 3.1/4"		
81) Pl. SEC. 30.00 1 Position 3.1/4"		
82) Pl. SEC. 30.00 1 Position 3.1/4"		
83) Pl. SEC. 30.00 1 Position 3.1/4"		
84) Pl. SEC. 30.00 1 Position 3.1/4"		
85) Pl. SEC. 30.00 1 Position 3.1/4"		
86) Pl. SEC. 30.00 1 Position 3.1/4"		
87) Pl. SEC. 30.00 1 Position 3.1/4"		
88) Pl. SEC. 30.00 1 Position 3.1/4"		
89) Pl. SEC. 30.00 1 Position 3.1/4"		
90) Pl. SEC. 30.00 1 Position 3.1/4"		
91) Pl. SEC. 30.00 1 Position 3.1/4"		
92) Pl. SEC. 30.00 1 Position 3.1/4"		
93) Pl. SEC. 30.00 1 Position 3.1/4"		
94) Pl. SEC. 30.00 1 Position 3.1/4"		
95) Pl. SEC. 30.00 1 Position 3.1/4"		
96) Pl. SEC. 30.00 1 Position 3.1/4"		
97) Pl. SEC. 30.00 1 Position 3.1/4"		
98) Pl. SEC. 30.00 1 Position 3.1/4"		
99) Pl. SEC. 30.00 1 Position 3.1/4"		
100) Pl. SEC. 30.00 1 Position 3.1/4"		

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

SIZE: 10K44

SCALE: NONE

REV: A1

DATE: 6/12/09

BY: B.D.B.

APPR: M.R.F.

DESIGN NO: S2-15219

DWG NO: S2-15219

CRIMPER, HAND, CA-5D12

FILE: S2-15219

REV: A1

DATE: 6/12/09

BY: B.D.B.

APPR: M.R.F.

DESIGN NO: S2-15219

DWG NO: S2-15219

CRIMPER, HAND, CA-5D12

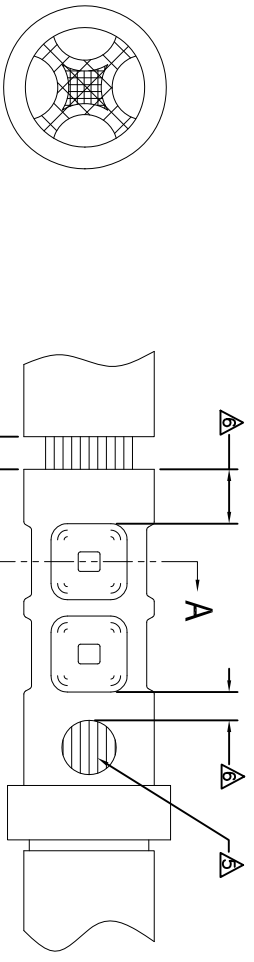
FILE: S2-15219

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

CONTACT P/N	SIZE TYPE	WIRE SIZE	REF. ONLY TENSILE LBS[FN]
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
- 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.

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
	MATERIALS LIST		

UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE	
1) All dimensions are in inches.		DRAWN: BERNIM	6/3/09	DATE: 6/3/09	
2) All tolerances are as shown.		CHECKED: RONE	6/3/09	ENGINEER: BERNIM	
3) Pl. SEE 40.011		APPROVAL: BERNIM	6/3/09		
4) Pl. SEE 40.011					
5) Fabrication Standards Per: SS-20020					
6) Pl. SEE 40.011					
7) Pl. SEE 40.011					
8) Pl. SEE 40.011					
9) Pl. SEE 40.011					
10) Pl. SEE 40.011					
11) Pl. SEE 40.011					
12) Pl. SEE 40.011					
13) Pl. SEE 40.011					
14) Pl. SEE 40.011					
15) Pl. SEE 40.011					
16) Pl. SEE 40.011					
17) Pl. SEE 40.011					
18) Pl. SEE 40.011					
19) Pl. SEE 40.011					
20) Pl. SEE 40.011					
21) Pl. SEE 40.011					
22) Pl. SEE 40.011					
23) Pl. SEE 40.011					
24) Pl. SEE 40.011					
25) Pl. SEE 40.011					
26) Pl. SEE 40.011					
27) Pl. SEE 40.011					
28) Pl. SEE 40.011					
29) Pl. SEE 40.011					
30) Pl. SEE 40.011					

PROCESS SPECIFICATIONS		MATERIAL SPECIFICATIONS		FINISH	
1) Pl. SEE 40.011		1) Pl. SEE 40.011		1) Pl. SEE 40.011	
2) Pl. SEE 40.011		2) Pl. SEE 40.011		2) Pl. SEE 40.011	
3) Pl. SEE 40.011		3) Pl. SEE 40.011		3) Pl. SEE 40.011	
4) Pl. SEE 40.011		4) Pl. SEE 40.011		4) Pl. SEE 40.011	
5) Pl. SEE 40.011		5) Pl. SEE 40.011		5) Pl. SEE 40.011	
6) Pl. SEE 40.011		6) Pl. SEE 40.011		6) Pl. SEE 40.011	
7) Pl. SEE 40.011		7) Pl. SEE 40.011		7) Pl. SEE 40.011	
8) Pl. SEE 40.011		8) Pl. SEE 40.011		8) Pl. SEE 40.011	
9) Pl. SEE 40.011		9) Pl. SEE 40.011		9) Pl. SEE 40.011	
10) Pl. SEE 40.011		10) Pl. SEE 40.011		10) Pl. SEE 40.011	
11) Pl. SEE 40.011		11) Pl. SEE 40.011		11) Pl. SEE 40.011	
12) Pl. SEE 40.011		12) Pl. SEE 40.011		12) Pl. SEE 40.011	
13) Pl. SEE 40.011		13) Pl. SEE 40.011		13) Pl. SEE 40.011	
14) Pl. SEE 40.011		14) Pl. SEE 40.011		14) Pl. SEE 40.011	
15) Pl. SEE 40.011		15) Pl. SEE 40.011		15) Pl. SEE 40.011	
16) Pl. SEE 40.011		16) Pl. SEE 40.011		16) Pl. SEE 40.011	
17) Pl. SEE 40.011		17) Pl. SEE 40.011		17) Pl. SEE 40.011	
18) Pl. SEE 40.011		18) Pl. SEE 40.011		18) Pl. SEE 40.011	
19) Pl. SEE 40.011		19) Pl. SEE 40.011		19) Pl. SEE 40.011	
20) Pl. SEE 40.011		20) Pl. SEE 40.011		20) Pl. SEE 40.011	
21) Pl. SEE 40.011		21) Pl. SEE 40.011		21) Pl. SEE 40.011	
22) Pl. SEE 40.011		22) Pl. SEE 40.011		22) Pl. SEE 40.011	
23) Pl. SEE 40.011		23) Pl. SEE 40.011		23) Pl. SEE 40.011	
24) Pl. SEE 40.011		24) Pl. SEE 40.011		24) Pl. SEE 40.011	
25) Pl. SEE 40.011		25) Pl. SEE 40.011		25) Pl. SEE 40.011	
26) Pl. SEE 40.011		26) Pl. SEE 40.011		26) Pl. SEE 40.011	
27) Pl. SEE 40.011		27) Pl. SEE 40.011		27) Pl. SEE 40.011	
28) Pl. SEE 40.011		28) Pl. SEE 40.011		28) Pl. SEE 40.011	
29) Pl. SEE 40.011		29) Pl. SEE 40.011		29) Pl. SEE 40.011	
30) Pl. SEE 40.011		30) Pl. SEE 40.011		30) Pl. SEE 40.011	

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

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
	PIN	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
	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 [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

CONTACT RESISTANCE STRENGTH (LESS DROP THROUGH WIRE)			
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

MATERIAL SPECIFICATION AND PLATING ** CODES

PIN: COPPER ALLOY
 SOCKET: COPPER ALLOY WITH STAINLESS STEEL SLEEVE

SOLID MACHINED CONTACT PLATING OPTIONS: **A**
 31= GOLD*
 141= NICKEL

STAMPED CONTACT PLATING OPTIONS: **A**
 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/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 | | S2-15222 |
| | 16 | | 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.

PART NUMBER		DESCRIPTION		ITEM
QUANTITY		MATERIALS LIST		
UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE
1) All dimensions are in inches.		DATE:	4/5/09	
2) All dimensions are in millimeters.		ORDERED BY:	ROTOR	6/3/09
3) Pl. DEC 2000		ENGINEER:	BERNIM	6/3/09
4) Pl. DEC 2001		APPROVAL:	BERNIM	6/3/09
5) Fabrication Standards Per:		CUSTOMER:		
6) Pl. DEC 2002		APPROVAL:		
7) Pl. DEC 2003		DATE:	6/3/09	
8) Pl. DEC 2004				
9) Pl. DEC 2005				
10) Pl. DEC 2006				
11) Pl. DEC 2007				
12) Pl. DEC 2008				
13) Pl. DEC 2009				
14) Pl. DEC 2010				
15) Pl. DEC 2011				
16) Pl. DEC 2012				
17) Pl. DEC 2013				
18) Pl. DEC 2014				
19) Pl. DEC 2015				
20) Pl. DEC 2016				
21) Pl. DEC 2017				
22) Pl. DEC 2018				
23) Pl. DEC 2019				
24) Pl. DEC 2020				
25) Pl. DEC 2021				
26) Pl. DEC 2022				
27) Pl. DEC 2023				
28) Pl. DEC 2024				
29) Pl. DEC 2025				
30) Pl. DEC 2026				
31) Pl. DEC 2027				
32) Pl. DEC 2028				
33) Pl. DEC 2029				
34) Pl. DEC 2030				
35) Pl. DEC 2031				
36) Pl. DEC 2032				
37) Pl. DEC 2033				
38) Pl. DEC 2034				
39) Pl. DEC 2035				
40) Pl. DEC 2036				
41) Pl. DEC 2037				
42) Pl. DEC 2038				
43) Pl. DEC 2039				
44) Pl. DEC 2040				
45) Pl. DEC 2041				
46) Pl. DEC 2042				
47) Pl. DEC 2043				
48) Pl. DEC 2044				
49) Pl. DEC 2045				
50) Pl. DEC 2046				
51) Pl. DEC 2047				
52) Pl. DEC 2048				
53) Pl. DEC 2049				
54) Pl. DEC 2050				
55) Pl. DEC 2051				
56) Pl. DEC 2052				
57) Pl. DEC 2053				
58) Pl. DEC 2054				
59) Pl. DEC 2055				
60) Pl. DEC 2056				
61) Pl. DEC 2057				
62) Pl. DEC 2058				
63) Pl. DEC 2059				
64) Pl. DEC 2060				
65) Pl. DEC 2061				
66) Pl. DEC 2062				
67) Pl. DEC 2063				
68) Pl. DEC 2064				
69) Pl. DEC 2065				
70) Pl. DEC 2066				
71) Pl. DEC 2067				
72) Pl. DEC 2068				
73) Pl. DEC 2069				
74) Pl. DEC 2070				
75) Pl. DEC 2071				
76) Pl. DEC 2072				
77) Pl. DEC 2073				
78) Pl. DEC 2074				
79) Pl. DEC 2075				
80) Pl. DEC 2076				
81) Pl. DEC 2077				
82) Pl. DEC 2078				
83) Pl. DEC 2079				
84) Pl. DEC 2080				
85) Pl. DEC 2081				
86) Pl. DEC 2082				
87) Pl. DEC 2083				
88) Pl. DEC 2084				
89) Pl. DEC 2085				
90) Pl. DEC 2086				
91) Pl. DEC 2087				
92) Pl. DEC 2088				
93) Pl. DEC 2089				
94) Pl. DEC 2090				
95) Pl. DEC 2091				
96) Pl. DEC 2092				
97) Pl. DEC 2093				
98) Pl. DEC 2094				
99) Pl. DEC 2095				
100) Pl. DEC 2096				
101) Pl. DEC 2097				
102) Pl. DEC 2098				
103) Pl. DEC 2099				
104) Pl. DEC 2100				



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.