

# 963P CONTACT NUMBERING SYSTEM

FOR SIDE  
POLARIZATION, RIB  
IS THIS SIDE.

FOR STANDARD  
KEYING, A02  
POSITION IS  
PLUGGED

FOR STANDARD KEYING  
B02 POSITION IS PLUGGED

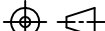
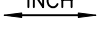
CONTACT NUMBERING SYSTEM AS  
VIEWED FROM CONTACT INSERTION  
END.

## NOTES:

1. HOUSING AND CONTACTS ARE SHIPPED LOOSE. CONTACTS ARE AVAILABLE EITHER BULK OR ON REELS.
2. HOUSING COMCODES ARE GIVEN IN TABLES A,B,C,D & E. CONTACT COMCODES ARE GIVEN IN THE CONTACT TABLE, SHEET 6. ANY CONTACT TYPE WILL FIT ANY OF THE 963P TYPE HOUSINGS.
3. IT HAS BEEN NORMAL PRACTICE IN THE PAST TO DISREGARD THE 1 AFTER THE P FOR DOUBLE ROW SIDE POLARIZED CODE. EXAMPLE THE 963P1-2 HAS PREVIOUSLY BEEN SPECIFIED AS 963P-2. IT IS DESIRABLE NOW TO USE THE COMPLETE CODE (963P1-2).
4. SINGLE ROW HOUSINGS WITHOUT SIDE POLARIZATION ARE SIDE TO SIDE STACKABLE WHEN USED IN MULTIPLES BUT HOUSING SIDE TABS MUST ALL FACE THE SAME DIRECTION TO AVOID SHORTING OF CONTACTS THRU THE TAB WINDOWS.
5. DOUBLE ROW HOUSINGS IF STACKED SIDE BY SIDE WOULD NEED INSULATION BETWEEN THEM TO AVOID SHORTING OF CONTACTS THRU THE TAB WINDOWS.
6. TOOLING AVAILABILITY IS COVERED IN X-19937.
7. TERMINATION REQUIREMENTS ARE COVERED IN X-19937.
8. FOR ADDITIONAL INFORMATION CALL 1-800-237-2374
9. ○ — = AVAILABILITY DISCONTINUED

|      |           | HOUSING (SEE TABLE) & NOTE 2 | 2    |
|------|-----------|------------------------------|------|
|      |           | CONTACT (SEE TABLE & NOTE 2) | 1    |
| REQ. | IDENT NO. | DESCRIPTION                  | ITEM |

## STOCKLIST

|                          |                   |     |         |                                          |           |   |         |                  |                                                                                                     |                                                                                                                                                                        |           |         |        |
|--------------------------|-------------------|-----|---------|------------------------------------------|-----------|---|---------|------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|--------|
| mat'l. code<br>SEE NOTES |                   |     |         | tolerances unless<br>otherwise specified |           |   |         | CUSTOMER<br>COPY |                                                                                                     |  Electronics<br>FCI<br><a href="http://www.fciconnect.com">www.fciconnect.com</a> |           |         |        |
| ltr                      | ecn no            | dr  | date    | linear                                   |           |   |         |                  | projection<br> | title                                                                                                                                                                  |           |         |        |
| A                        | V12869            | CGD | 1/22/02 |                                          |           |   |         |                  |                                                                                                     | 963P CONNECTOR HOUSING                                                                                                                                                 |           |         |        |
|                          |                   |     |         |                                          |           |   |         |                  |                                                                                                     | CONTACT ASSY w/ .125" CENTERS                                                                                                                                          |           |         |        |
|                          |                   |     |         | angles                                   |           |   |         |                  | <br>INCH       | product family                                                                                                                                                         |           | FASTECH | code   |
|                          |                   |     |         | dr                                       | C. DAILY  |   | 1/22/02 | size             |                                                                                                     | dwg no                                                                                                                                                                 |           | 213     |        |
|                          |                   |     |         | engr                                     | R. CONRAD |   | 1/22/02 |                  |                                                                                                     |                                                                                                                                                                        |           |         |        |
|                          |                   |     |         | chr                                      | R. CONRAD |   | 1/22/02 |                  | scale                                                                                               |                                                                                                                                                                        | 1:1       | sheet   |        |
|                          |                   |     |         | appd                                     | R. CONRAD |   | 1/22/02 |                  |                                                                                                     | A                                                                                                                                                                      | A81KC4144 |         | 1 of 6 |
| sheet<br>index           | revision<br>sheet | A   | A       | A                                        | A         | A | A       |                  |                                                                                                     |                                                                                                                                                                        |           |         |        |
|                          |                   | 1   | 2       | 3                                        | 4         | 5 | 6       |                  |                                                                                                     |                                                                                                                                                                        |           |         |        |

cage code

22526

Printed Jan 24, 2003

ACAD

PDM: Rev:A

STATUS

Released

Printed Jan 24, 2003



1 | 2

3

4

963P10

SINGLE ROW

SEE NOTE 4

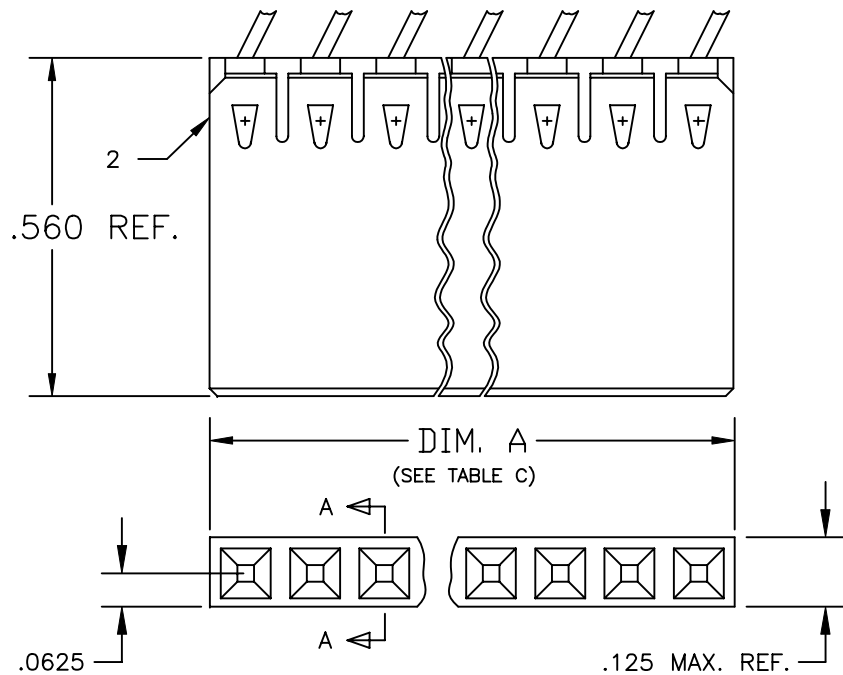
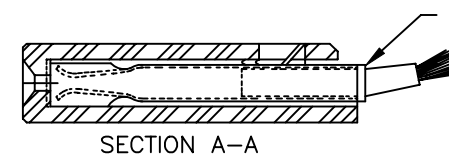


TABLE C

|   | CODE      | DIM. A<br>REF. | HOUSING<br>SIZE | ITEM 1<br>NO. REQD. | ITEM 2<br>COMCODE | ITEM 2<br>NO. REQD. |
|---|-----------|----------------|-----------------|---------------------|-------------------|---------------------|
| ○ | 963P10-1  | .120           | 1 X 1           | 1                   | 845379403         | 1                   |
|   | 963P10-2  | .245           | 1 X 2           | 2                   | 845379411         | 1                   |
|   | 963P10-3  | .370           | 1 X 3           | 3                   | 845379429         | 1                   |
|   | 963P10-4  | .495           | 1 X 4           | 4                   | 845379437         | 1                   |
| ○ | 963P10-5  | .620           | 1 X 5           | 5                   | 845379445         | 1                   |
|   | 963P10-6  | .745           | 1 X 6           | 6                   | 845379452         | 1                   |
|   | 963P10-7  | .870           | 1 X 7           | 7                   | 845379460         | 1                   |
| ○ | 963P10-8  | .995           | 1 X 8           | 8                   | 845379478         | 1                   |
| ○ | 963P10-9  | 1.120          | 1 X 9           | 9                   | 845379486         | 1                   |
| ○ | 963P10-10 | 1.245          | 1 X 10          | 10                  | 845379494         | 1                   |
| ○ | 963P10-11 | 1.370          | 1 X 11          | 11                  | 845379502         | 1                   |
| ○ | 963P10-12 | 1.495          | 1 X 12          | 12                  | 845379510         | 1                   |
| ○ | 963P10-13 | 1.620          | 1 X 13          | 13                  | 845379528         | 1                   |
|   | 963P10-14 | 1.745          | 1 X 14          | 14                  | 845379536         | 1                   |
|   | 963P10-15 | 1.870          | 1 X 15          | 15                  | 845379544         | 1                   |
|   | 963P10-16 | 1.995          | 1 X 16          | 16                  | 845379551         | 1                   |



|                          |                   |    |      |                                          |           |         |                  |                            |                                                                  |                 |             |
|--------------------------|-------------------|----|------|------------------------------------------|-----------|---------|------------------|----------------------------|------------------------------------------------------------------|-----------------|-------------|
| mat'l. code<br>SEE NOTES |                   |    |      | tolerances unless<br>otherwise specified |           |         | CUSTOMER<br>COPY |                            | Electronics<br>www.fciconnect.com                                |                 |             |
| ltr                      | ecn no            | dr | date | linear                                   |           |         |                  | projection<br>             | title<br>963P CONNECTOR HOUSING<br>CONTACT ASSY w/ .125" CENTERS |                 |             |
| A                        |                   |    |      |                                          |           |         |                  |                            |                                                                  |                 |             |
|                          |                   |    |      | angles                                   |           |         |                  | INCH<br>                   | product family FASTECH                                           |                 | code<br>213 |
|                          |                   |    |      | dr                                       | C. DAILY  | 1/22/02 |                  |                            |                                                                  |                 |             |
|                          |                   |    |      | enr                                      | R. CONRAD | 1/22/02 | scale<br>1:1     | size dwg no<br>A A81KC4144 |                                                                  | sheet<br>2 of - |             |
|                          |                   |    |      | chr                                      | R. CONRAD | 1/22/02 |                  |                            |                                                                  |                 |             |
|                          |                   |    |      | appd                                     | R. CONRAD | 1/22/02 |                  |                            |                                                                  |                 |             |
| sheet<br>index           | revision<br>sheet |    |      |                                          |           |         |                  |                            |                                                                  |                 |             |

1 | 2

3

4

963P 1

DOUBLE ROW SIDE POLARIZED

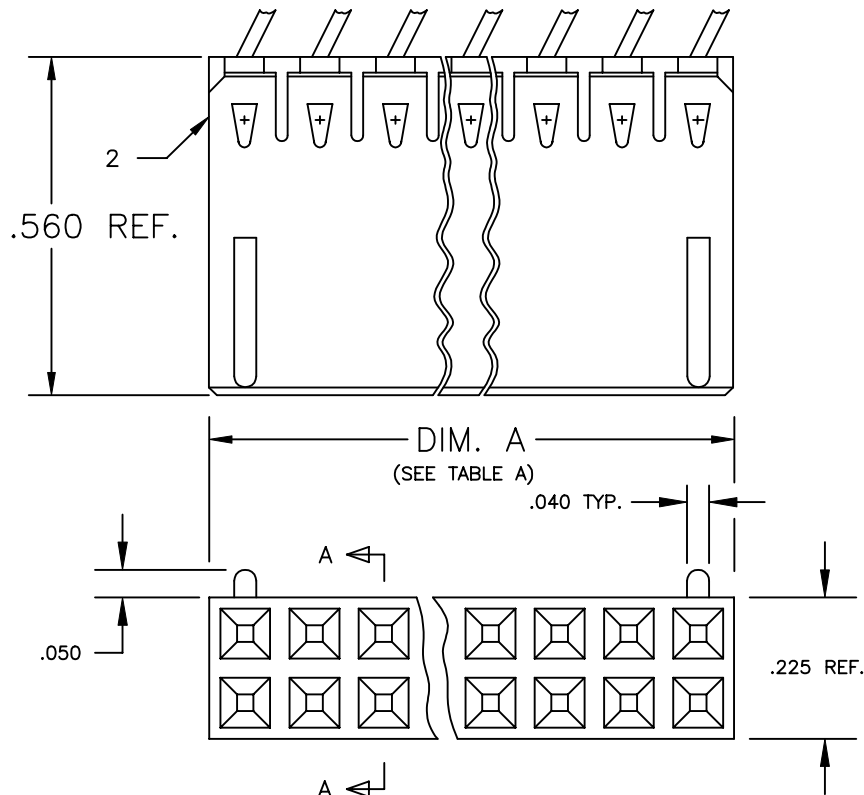
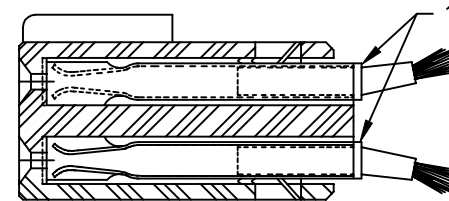


TABLE A

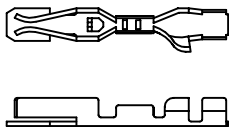
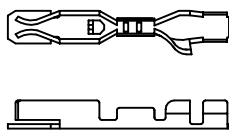
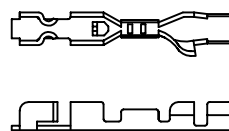
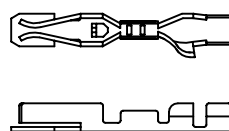
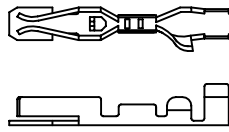
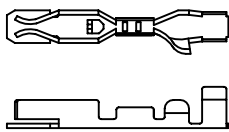
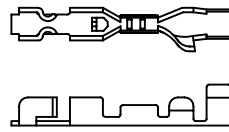
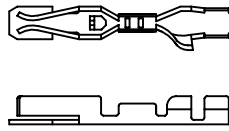
| CODE<br>SEE NOTE 5 | DIM. A<br>REF. | HOUSING<br>SIZE | ITEM 1<br>NO. REQD. | ITEM 2<br>COMCODE | ITEM 2<br>NO. REQD. |
|--------------------|----------------|-----------------|---------------------|-------------------|---------------------|
| 963P1-2            | .120           | 2 X 1           | 2                   | 843939364         | 1                   |
| 963P1-4            | .245           | 2 X 2           | 4                   | 843939372         | 1                   |
| 963P1-6            | .370           | 2 X 3           | 6                   | 843939380         | 1                   |
| 963P1-8            | .495           | 2 X 4           | 8                   | 843939398         | 1                   |
| 963P1-10           | .620           | 2 X 5           | 10                  | 843939406         | 1                   |
| 963P1-12           | .745           | 2 X 6           | 12                  | 843939414         | 1                   |
| 963P1-14           | .870           | 2 X 7           | 14                  | 843939422         | 1                   |
| 963P1-16           | .995           | 2 X 8           | 16                  | 843939430         | 1                   |
| 963P1-20           | 1.245          | 2 X 10          | 20                  | 843939455         | 1                   |
| 963P1-22           | 1.370          | 2 X 11          | 22                  | 843939463         | 1                   |
| 963P1-24           | 1.495          | 2 X 12          | 24                  | 843939471         | 1                   |
| 963P1-30           | 1.870          | 2 X 15          | 30                  | 843939505         | 1                   |

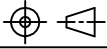
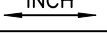


SECTION A-A

|                          |        |                |      |                                          |           |         |  |                  |  |                                                         |  |
|--------------------------|--------|----------------|------|------------------------------------------|-----------|---------|--|------------------|--|---------------------------------------------------------|--|
| mat'l. code<br>SEE NOTES |        |                |      | tolerances unless<br>otherwise specified |           |         |  | CUSTOMER<br>COPY |  | Electronics<br>www.fciconnect.com                       |  |
| ltr                      | ecn no | dr             | date | linear                                   |           |         |  | projection       |  | title                                                   |  |
| A                        |        |                |      | angles                                   |           |         |  |                  |  | 963P CONNECTOR HOUSING<br>CONTACT ASSY w/ .125" CENTERS |  |
|                          |        |                |      | dr                                       | C. DAILY  | 1/22/02 |  | INCH             |  | product family FASTECH                                  |  |
|                          |        |                |      | enr                                      | R. CONRAD | 1/22/02 |  | scale            |  | size dwg no                                             |  |
|                          |        |                |      | chr                                      | R. CONRAD | 1/22/02 |  | 1:1              |  | A A81KC4144                                             |  |
|                          |        |                |      | appd                                     | R. CONRAD | 1/22/02 |  |                  |  | code 213                                                |  |
| sheet index              |        | revision sheet |      |                                          |           |         |  |                  |  | sheet 3 of -                                            |  |

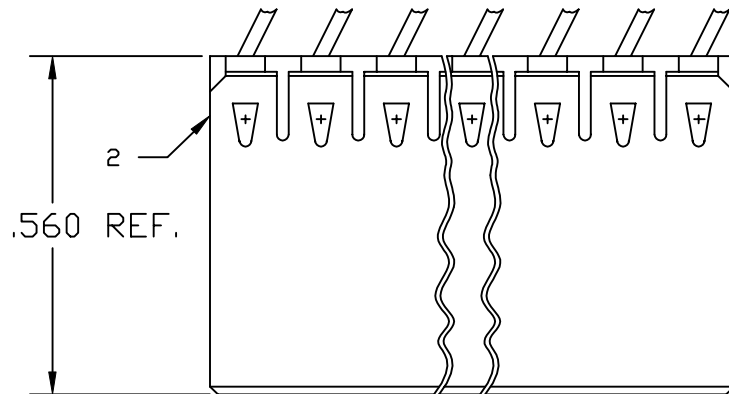
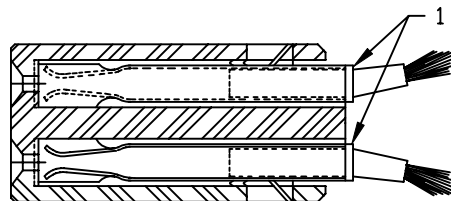
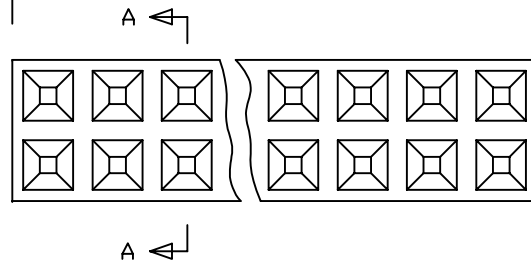
CONTACT TABLE  
963 P CONTACT FAMILY  
IDENTIFICATION

|                                                                         | STANDARD                                                                                                                            | HIGH RETENTION                                                                                                                        | EXTRA HIGH RETENTION                                                                                                                   | SOLDER                                                                                                                               |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 24 - 27<br>GAUGE<br>WIRE                                                |  <p>963P</p> <p>* 843939612<br/>** 845576255</p>   |  <p>963PH</p> <p>* 845381235<br/>** 845576263</p>   |  <p>963PX</p> <p>* 845575125<br/>** 845576271</p>   |  <p>963PS</p> <p>* 846288082<br/>** 845852243</p> |
| 22<br>GAUGE<br>WIRE                                                     |  <p>963P22</p> <p>* 845380187<br/>** 845576289</p> |  <p>963PH22</p> <p>* 845575950<br/>** 845576297</p> |  <p>963PX22</p> <p>* 845575968<br/>** 845576305</p> |                                                                                                                                      |
| 28<br>GAUGE<br>WIRE                                                     |  <p>963P28</p> <p>* 845856574<br/>** 845855428</p> |                                                                                                                                       |                                                                                                                                        |                                                                                                                                      |
| <p>** LOOSE CONTACTS 500 PCS./BAG      * CONTACTS REELS 20,000/REEL</p> |                                                                                                                                     |                                                                                                                                       |                                                                                                                                        |                                                                                                                                      |

|                          |                   |    |      |                                          |           |         |             |                                                                                                               |                                                                                       |                                                                                                                                                                            |      |                                                                  |  |
|--------------------------|-------------------|----|------|------------------------------------------|-----------|---------|-------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------|--|
| mat'l. code<br>SEE NOTES |                   |    |      | tolerances unless<br>otherwise specified |           |         |             | CUSTOMER<br>COPY                                                                                              |                                                                                       |  <b>Electronics</b><br>FCI <a href="http://www.fciconnect.com">www.fciconnect.com</a> |      |                                                                  |  |
| ltr                      | ecn no            | dr | date | linear                                   |           |         |             | projection                                                                                                    |  |                                                                                                                                                                            |      | title<br>963P CONNECTOR HOUSING<br>CONTACT ASSY w/ .125" CENTERS |  |
| A                        |                   |    |      |                                          |           |         |             |                                                                                                               |                                                                                       |                                                                                                                                                                            |      |                                                                  |  |
|                          |                   |    |      | angles                                   |           |         |             | <br>INCH<br>scale<br>1:1 | product family                                                                        |                                                                                                                                                                            | code |                                                                  |  |
|                          |                   |    |      | dr                                       | C. DAILY  | 1/22/02 | FASTECH     |                                                                                                               | 213                                                                                   |                                                                                                                                                                            |      |                                                                  |  |
|                          |                   |    |      | enrg                                     | R. CONRAD | 1/22/02 | size dwg no |                                                                                                               | 4 of -                                                                                |                                                                                                                                                                            |      |                                                                  |  |
|                          |                   |    |      | chr                                      | R. CONRAD | 1/22/02 | A A81KC4144 |                                                                                                               |                                                                                       |                                                                                                                                                                            |      |                                                                  |  |
|                          |                   |    |      | appd                                     | R. CONRAD | 1/22/02 |             |                                                                                                               |                                                                                       |                                                                                                                                                                            |      |                                                                  |  |
| sheet<br>index           | revision<br>sheet |    |      |                                          |           |         |             |                                                                                                               |                                                                                       |                                                                                                                                                                            |      |                                                                  |  |

963P 9

DOUBLE ROW

DIM. A  
(SEE TABLE E)

SECTION A-A

TABLE E

|   | CODE<br>SEE NOTE 5 | DIM. A<br>REF. | HOUSING<br>SIZE | ITEM 1<br>NO. REQD. | ITEM 2<br>COMCODE | ITEM 2<br>NO. REQD. |
|---|--------------------|----------------|-----------------|---------------------|-------------------|---------------------|
| ○ | 963P9-2            | .120           | 2 X 1           | 2                   | 845379122         | 1                   |
|   | 963P9-4            | .245           | 2 X 2           | 4                   | 845379130         | 1                   |
|   | 963P9-6            | .370           | 2 X 3           | 6                   | 845379148         | 1                   |
|   | 963P9-8            | .495           | 2 X 4           | 8                   | 845379155         | 1                   |
| ○ | 963P9-10           | .620           | 2 X 5           | 10                  | 845379163         | 1                   |
| ○ | 963P9-12           | .745           | 2 X 6           | 12                  | 845379171         | 1                   |
|   | 963P9-14           | .870           | 2 X 7           | 14                  | 845379189         | 1                   |
|   | 963P9-16           | .995           | 2 X 8           | 16                  | 845399197         | 1                   |
| ○ | 963P9-18           | 1.120          | 2 X 9           | 18                  | 845379205         | 1                   |
|   | 963P9-20           | 1.245          | 2 X 10          | 20                  | 845379213         | 1                   |
| ○ | 963P9-22           | 1.370          | 2 X 11          | 22                  | 845379221         | 1                   |
|   | 963P9-24           | 1.495          | 2 X 12          | 24                  | 845379239         | 1                   |
|   | 963P9-26           | 1.620          | 2 X 13          | 26                  | 845379247         | 1                   |
|   | 963P9-28           | 1.745          | 2 X 14          | 28                  | 845379254         | 1                   |
| ○ | 963P9-30           | 1.870          | 2 X 15          | 30                  | 845379262         | 1                   |
|   | 963P9-32           | 1.995          | 2 X 16          | 32                  | 845379270         | 1                   |
|   | 963P9-34           | 2.120          | 2 X 17          | 34                  | 845379288         | 1                   |
|   | 963P9-36           | 2.245          | 2 X 18          | 36                  | 845379296         | 1                   |
| ○ | 963P9-38           | 2.370          | 2 X 19          | 38                  | 845379304         | 1                   |
| ○ | 963P9-40           | 2.495          | 2 X 20          | 40                  | 845379312         | 1                   |
| ○ | 963P9-42           | 2.620          | 2 X 21          | 42                  | 845379320         | 1                   |
| ○ | 963P9-44           | 2.745          | 2 X 22          | 44                  | 845379338         | 1                   |
| ○ | 963P9-46           | 2.870          | 2 X 23          | 46                  | 845379346         | 1                   |
| ○ | 963P9-48           | 2.995          | 2 X 24          | 48                  | 845379353         | 1                   |
|   | 963P9-50           | 3.120          | 2 X 25          | 50                  | 845379361         | 1                   |
|   | 963P9-56           | 3.495          | 2 X 28          | 56                  | 845379395         | 1                   |

|                          |                |    |      |                                          |           |         |                      |                                                                  |                                   |  |
|--------------------------|----------------|----|------|------------------------------------------|-----------|---------|----------------------|------------------------------------------------------------------|-----------------------------------|--|
| mat'l. code<br>SEE NOTES |                |    |      | tolerances unless<br>otherwise specified |           |         | CUSTOMER<br>COPY     |                                                                  | Electronics<br>www.fciconnect.com |  |
| ltr                      | ecn no         | dr | date | linear                                   |           |         | projection           | title<br>963P CONNECTOR HOUSING<br>CONTACT ASSY w/ .125" CENTERS |                                   |  |
| A                        |                |    |      |                                          |           |         |                      |                                                                  |                                   |  |
|                          |                |    |      | angles                                   |           |         |                      | product family FASTECH<br>size dwg no                            |                                   |  |
|                          |                |    |      | dr                                       | C. DAILY  | 1/22/02 |                      |                                                                  |                                   |  |
|                          |                |    |      | enrg                                     | R. CONRAD | 1/22/02 | INCH<br>scale<br>1:1 | A A81KC4144                                                      |                                   |  |
|                          |                |    |      | chr                                      | R. CONRAD | 1/22/02 |                      |                                                                  |                                   |  |
|                          |                |    |      | appd                                     | R. CONRAD | 1/22/02 | sheet 5 of -         |                                                                  |                                   |  |
| sheet index              | revision sheet |    |      |                                          |           |         |                      |                                                                  |                                   |  |

963 P  
CONNECTOR CODING  
SYSTEM  
.125" CENTERS

DESIGNATES  
CONNECTOR  
FAMILY

1-DOUBLE ROW SIDE POLARIZED  
SEE NOTE 3.

10-SINGLE ROW.

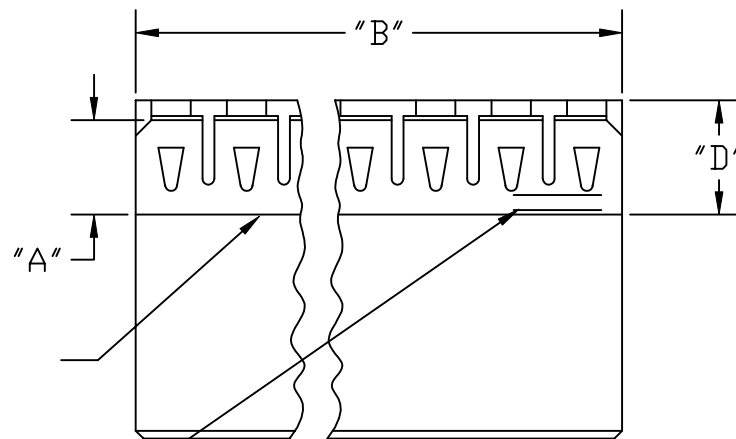
9-DOUBLE ROW

NUMBER OF USABLE  
CONTACTS

USED ONLY FOR NON-STANDARD  
PLUGGED LOCATIONS - SEE  
HOUSING DRAWING FOR  
DETAILS

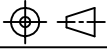
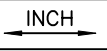
963P 10 - 6 - XXX

963P-1,8,9,10,12 MARKING



CODE MARK SHALL BE MOLDED IN AREAS  
AB OR DB IN .040 ± .005 LETTERS;  
MAXIMUM EMBOSMENT .003; OR EITHER  
INK OR LASER MARKED IN CONVENIENT  
LETTER SIZE AND AREA.

SCALE: NTS

|                          |          |    |      |                                          |           |         |             |                                                                                                         |                                                                                       |                                                                                                                                                                            |      |                                                         |  |
|--------------------------|----------|----|------|------------------------------------------|-----------|---------|-------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------|--|
| mat'l. code<br>SEE NOTES |          |    |      | tolerances unless<br>otherwise specified |           |         |             | CUSTOMER<br>COPY                                                                                        |                                                                                       |  <b>Electronics</b><br>FCI <a href="http://www.fciconnect.com">www.fciconnect.com</a> |      |                                                         |  |
| ltr                      | ecr no   | dr | date | linear                                   |           |         |             | projection                                                                                              |  |                                                                                                                                                                            |      | title                                                   |  |
| A                        |          |    |      |                                          |           |         |             |                                                                                                         |                                                                                       |                                                                                                                                                                            |      | 963P CONNECTOR HOUSING<br>CONTACT ASSY w/ .125" CENTERS |  |
|                          |          |    |      | angles                                   |           |         |             |  INCH<br>scale 1:1 | product family                                                                        |                                                                                                                                                                            | code |                                                         |  |
|                          |          |    |      | dr                                       | C. DAILY  | 1/22/02 | FASTECH     |                                                                                                         | 213                                                                                   |                                                                                                                                                                            |      |                                                         |  |
|                          |          |    |      | enr                                      | R. CONRAD | 1/22/02 | size        |                                                                                                         | dwg no                                                                                |                                                                                                                                                                            |      |                                                         |  |
|                          |          |    |      | chr                                      | R. CONRAD | 1/22/02 | A A81KC4144 |                                                                                                         | sheet                                                                                 |                                                                                                                                                                            |      |                                                         |  |
|                          |          |    |      | appd                                     | R. CONRAD | 1/22/02 |             |                                                                                                         | 6 of -                                                                                |                                                                                                                                                                            |      |                                                         |  |
| sheet                    | revision |    |      |                                          |           |         |             |                                                                                                         |                                                                                       |                                                                                                                                                                            |      |                                                         |  |
| index                    | sheet    |    |      |                                          |           |         |             |                                                                                                         |                                                                                       |                                                                                                                                                                            |      |                                                         |  |