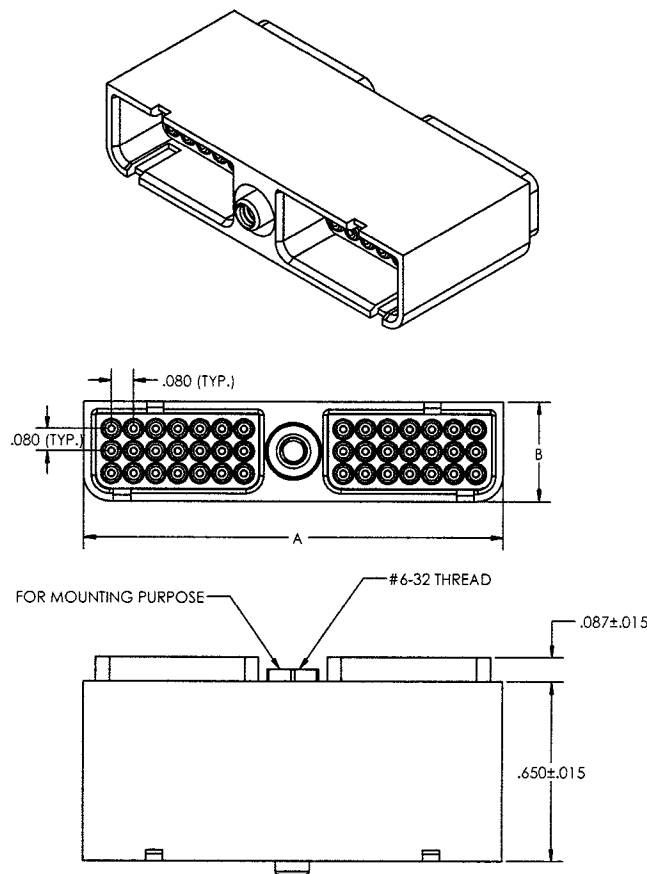
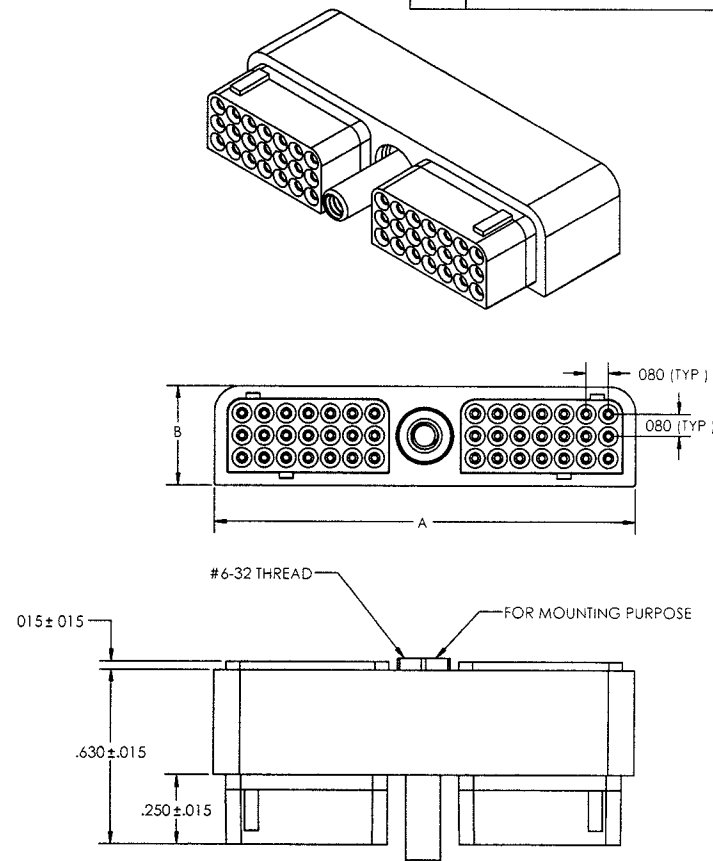


# **PIN**



# **SOCKET**



-442 ARRANGEMENT SHOWN

## **PART NUMBERING: RE54-\*\*\* \***

— DENOTES PINS (P), SOCKETS (S)  
 — INSERT ARRANGEMENTS (REFER TO DWG. 75500)  
 — DENOTES CONNECTOR TYPE

PROPERTY OF DEUTSCH E.C.D. THIS DRAWING CONTAINS PROPRIETARY INFORMATION THAT SHALL NOT BE DISCLOSED, DUPLICATED, NOR USED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS DRAWING

THIRD ANGLE PROJECTION



## **SIGNATURE & DATE**

DR *P. GUN 120405*  
 CHK *PC 120405*  
 PE *P. GUN 120405*  
 APPD *PC 120410*

MATERIAL

FINISH

MATERIAL CODE



DEUTSCH  
 DEFENSE/AEROSPACE OPERATION  
 250 EDDIE JONES WAY  
 OCEANSIDE, CA 92038

CONNECTOR, RECEPTACLE  
 RECTANGULAR SUBMINIATURE  
 JACKSCREW COUPLING  
 ENVIRONMENTAL  
 ENVELOPE

SIZE C

CAGE CODE 11139

SCALE 4:1 WEIGHT

DWG NO. RE54-\*\*\* P/S

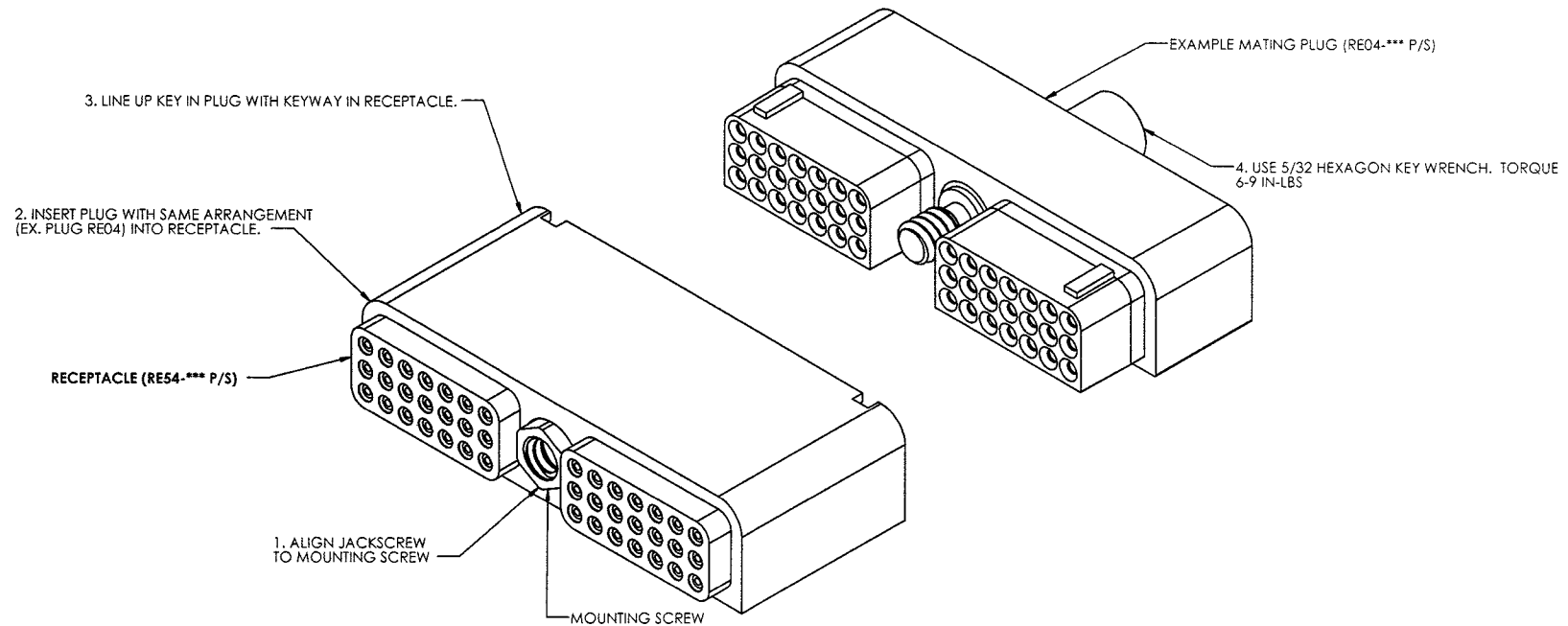
REV F

SHEET 1 OF 3

| REVISIONS |                            |          |           |
|-----------|----------------------------|----------|-----------|
| REV       | DESCRIPTION                | DATE     | APPROVED  |
| N/C       | NEW RELEASE PER E.O. 37592 | 8-8-88   |           |
| A         | CHANGE (1) PER E.O. 38418  | 8-11-88  |           |
| B         | CHANGE (1) PER E.O. 41135  | 12-8-88  |           |
| C         | CHG S 1 & 2 PER E.O. 41501 | 1-17-87  |           |
| D         | CHG PER E.O. 54559         | 11-26-88 |           |
| E         | REV PER E.O. 57544         | 10-2-89  |           |
| F         | REDRAWN PER E.O. D0140     | 120405   | <i>PC</i> |

# RE54-\*\*\* RECEPTACLE MATING INSTRUCTIONS

| REVISIONS |             |        |                |
|-----------|-------------|--------|----------------|
| REV       | DESCRIPTION | DATE   | APPROVED       |
|           |             | 120405 | <i>P. Brun</i> |



## CONFIGURATIONS

CONSULT FACTORY FOR AVAILABILITY

| PART NO.     | SIZE | A ±.015 | B ±.015 | MAX WEIGHT (LB.) | 1. MATING PART NO. | 2. MATING PART NO. | 3. MATING PART NO. | 4. MATING PART NO. | 5. MATING PART NO. | 6. MATING PART NO. | 7. MATING PART NO. | 8. MATING PART NO. |
|--------------|------|---------|---------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| RE54-212 P/S | 2    | .880    | .280    | P-.0099/S-.0086  | ER04-212 P/S       | 7804-212 P/S       | RE04-212 P/S       | UR804-212 P/S      | ER14-212 P/S       | 7814-212 P/S       | RE14-212 P/S       | UR814-212 P/S      |
| RE54-328 P/S | 3    | 1.520   | .280    | P-.0152/S-.0133  | ER04-328 P/S       | 7804-328 P/S       | RE04-328 P/S       | UR804-328 P/S      | ER14-328 P/S       | 7814-328 P/S       | RE14-328 P/S       | UR814-328 P/S      |
| RE54-442 P/S | 4    | 1.520   | .360    | P-.0185/S-.0164  | ER04-442 P/S       | 7804-442 P/S       | RE04-442 P/S       | UR804-442 P/S      | ER14-442 P/S       | 7814-442 P/S       | RE14-442 P/S       | UR814-442 P/S      |
| RE54-670 P/S | 6    | 1.520   | .520    | P-.0245/S-.0226  | ER04-670 P/S       | 7804-670 P/S       | RE04-670 P/S       | UR804-670 P/S      | ER14-670 P/S       | 7814-670 P/S       | RE14-670 P/S       | UR814-670 P/S      |
| RE54-700 P/S | 7    | 2.000   | .520    | P-.0319/S-.0288  | ER04-700 P/S       | 7804-700 P/S       | RE04-700 P/S       | UR804-700 P/S      | ER14-700 P/S       | 7814-700 P/S       | RE14-700 P/S       | UR814-700 P/S      |

\* WEIGHTS ARE FOR CONNECTORS WITHOUT CONTACTS

|                                                                                                                                                                                                                                      |  |                  |                       |                                                                                                                                                                                                                                              |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROPERTY OF DEUTSCH E.C.D. THIS DRAWING CONTAINS PROPRIETARY INFORMATION THAT SHALL NOT BE DISCLOSED, DUPLICATED, NOR USED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS DRAWING<br><br>THIRD ANGLE PROJECTION<br> |  | SIGNATURE & DATE |                       | DEUTSCH<br>DEFENSE/AEROSPACE OPERATION<br>250 EDDIE JONES WAY<br>OCEANSIDE, CA 92058<br><br><b>CONNECTOR, RECEPTACLE</b><br>RECTANGULAR SUBMINIATURE<br>JACKSCREW COUPLING<br>ENVIRONMENTAL<br><br>ENVELOPE<br>SCALE 2:1 WEIGHT SHEET 2 OF 3 |           |
|                                                                                                                                                                                                                                      |  | DR               | <i>P. Brun 120405</i> |                                                                                                                                                                                                                                              |           |
|                                                                                                                                                                                                                                      |  | CHK              | <i>P. Brun 120405</i> |                                                                                                                                                                                                                                              |           |
|                                                                                                                                                                                                                                      |  | PE               | <i>P. Brun 120405</i> |                                                                                                                                                                                                                                              |           |
| MATERIAL                                                                                                                                                                                                                             |  | MATERIAL CODE    |                       | SIZE                                                                                                                                                                                                                                         | CAGE CODE |
| FINISH                                                                                                                                                                                                                               |  |                  |                       | C                                                                                                                                                                                                                                            | 11139     |
|                                                                                                                                                                                                                                      |  |                  |                       | RE54-*** P/S                                                                                                                                                                                                                                 | REV F     |

# ACCESSORIES

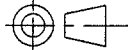
| PART NO.   | CONTACT     | INSERTION TOOL | PLUG SEAL | MOUNTING BRACKET   |
|------------|-------------|----------------|-----------|--------------------|
| RE54-212 P | 2841-5-9000 | M15570-22-1    | 81539-23  | SEE DWG 33003-***  |
| RE54-212 S | 2803-4-0000 | M15570-22-1    | 81539-23  | SEE DWG. 33003-*** |
| RE54-328 P | 2841-5-9000 | M15570-22-1    | 81539-23  | SEE DWG 33003-***  |
| RE54-328 S | 2803-4-0000 | M15570-22-1    | 81539-23  | SEE DWG 33003-***  |
| RE54-442 P | 2841-5-9000 | M15570-22-1    | 81539-23  | SEE DWG. 33003-*** |
| RE54-442 S | 2803-4-0000 | M15570-22-1    | 81539-23  | SEE DWG 33003-***  |
| RE54-670 P | 2841-5-9000 | M15570-22-1    | 81539-23  | SEE DWG 33003-***  |
| RE54-670 S | 2803-4-0000 | M15570-22-1    | 81539-23  | SEE DWG 33003-***  |
| RE54-700 P | 2841-5-9000 | M15570-22-1    | 81539-23  | SEE DWG. 33003-*** |
| RE54-700 S | 2803-4-0000 | M15570-22-1    | 81539-23  | SEE DWG 33003-***  |

# PRODUCT SPECIFICATION

|                                 |                                                               |
|---------------------------------|---------------------------------------------------------------|
| OPERATING TEMPERATURE           | -67F TO 302F (-55C TO 150C)                                   |
| CURRENT RATING                  | 5 AMPS (#22 CONTACT)                                          |
| SHOCK (11 ms ±1 ms DURATION)    | 50 G                                                          |
| DIELECTRIC WITHSTANDING VOLTAGE | 1500 V @ 60 Hz                                                |
| INSULATION RESISTANCE           | 100 GIGOHMS @ 75F                                             |
| THERMAL SHOCK                   | NO CRACKING, CHIPPING, OR LEAKING AFTER 5 CYCLES @ RATED TEMP |
| **USABLE WIRE SIZE(S)           | SIZE 22 CONTACTS (AWG 22, 24, & 26)                           |
| DURABILITY                      | NO ELECTRICAL OR MECHANICAL DAMAGE AFTER 200 CYCLES           |
| CORROSION RESISTANCE            | 500 HOUR SALT SPRAY                                           |

\*\* REAR INSERTS SEAL ON SMOOTH INSULATION OF .033" MIN TO .054" MAX.

| COMPONENT          | MATERIAL     |
|--------------------|--------------|
| HOUSING            | HARD PLASTIC |
| INSERT             | SILICONE     |
| PIN/SOCKET CONTACT | COPPER ALLOY |
| MOUNTING SCREW     | ALUMINUM     |

|                                                                                                                                                                                                                                                                                                                           |  |                  |                |                                                                                                                                                                                                        |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
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|                                                                                                                                                                                                                                                                                                                           |  | DR               | P. Byun 120503 |                                                                                                                                                                                                        |              |
|                                                                                                                                                                                                                                                                                                                           |  | CHK              | Je7 120503     |                                                                                                                                                                                                        |              |
|                                                                                                                                                                                                                                                                                                                           |  | PE               | P. Byun 120503 |                                                                                                                                                                                                        |              |
|                                                                                                                                                                                                                                                                                                                           |  | APPD             | ck 120503      |                                                                                                                                                                                                        |              |
| MATERIAL                                                                                                                                                                                                                                                                                                                  |  | SCALE 4:1        |                | WEIGHT                                                                                                                                                                                                 | SHEET 3 OF 3 |
| FINISH                                                                                                                                                                                                                                                                                                                    |  | CAGE CODE 11139  |                | DWG NO RE54-*** P/S                                                                                                                                                                                    | REV F        |
| MATERIAL CODE                                                                                                                                                                                                                                                                                                             |  |                  |                |                                                                                                                                                                                                        |              |