

## REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 508)

## PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOSET UL94V0

-CONTACT MATERIAL: BRASS  
GOLD OVER NICKEL

-ACCESSORIES: BRASS  
Cadmium plated, yellow passivation

-SHELLS: STEEL  
Cadmium plated, yellow passivation

## ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A

-CONTACT RESISTANCE: <= 7.3 m ohms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

## ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/155/56

TEMPERATURE RANGE -55°C TO +155°C

DAMP HEAT STEADY STATE 56 DAYS

SALT SPRAY 48 HOURS

## MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum

- Female screw : 0.5 N.m minimum

Series

# DBML25S400N

Shell size: **E A B C D**  
see sheet 2

Front accessory definition  
see sheet 2

**Blank** : without accessory

**F** : floating mounting

**L** : threaded insert M3

**O** : threaded insert UNC 4-40

**V** : female screw UNC 4-40

Contact number (see sheet 2)

**9,15,25,37,50**

Contacts

**S** : Socket

Termination type

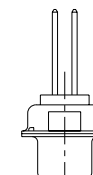
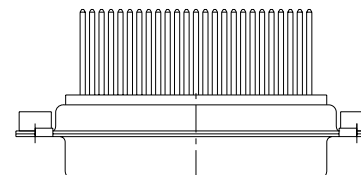
**4** 3 level wire wrap contact

Plating

**00** : 500 matings/unmatings

**43** : 500 matings/unmatings for harsh environment

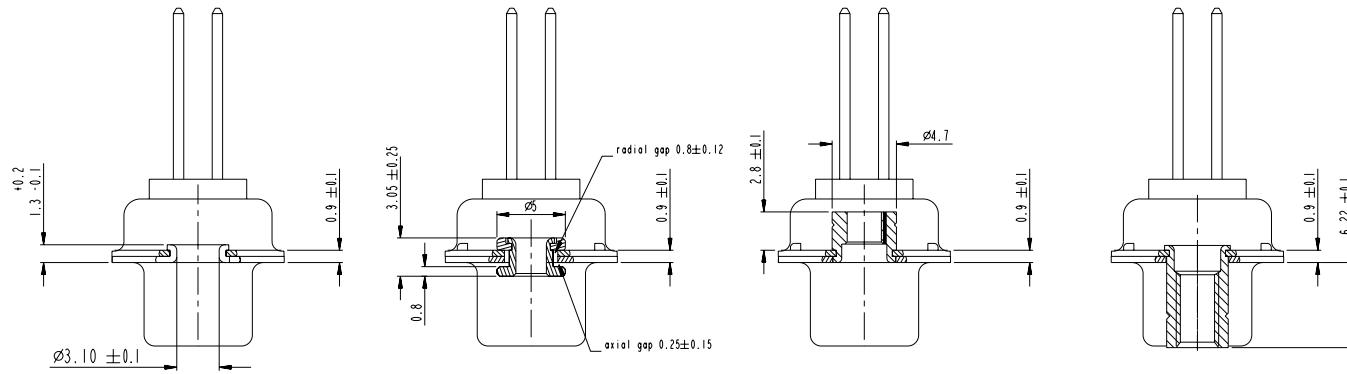
Obligatory for HE508



25 WAY for Exemple

| rev | ech no    | dr  | date       |
|-----|-----------|-----|------------|
| A   | 3506-0174 | MPE | 2006/11/14 |
| B   | 3507-0273 | MPE | 2007/10/30 |
| C   | 3507-0311 | MPE | 2007/12/06 |
| -   | -         | -   | -          |
| -   | -         | -   | -          |
| -   | -         | -   | -          |

|                                                                                       |          |            |                                                                                          |        |       |                                                                                                     |                         |              |              |
|---------------------------------------------------------------------------------------|----------|------------|------------------------------------------------------------------------------------------|--------|-------|-----------------------------------------------------------------------------------------------------|-------------------------|--------------|--------------|
| www.fciconnect.com                                                                    |          |            | surface - <input checked="" type="checkbox"/> tolerance std<br>ISO 1302 ISO 406 ISO 1101 |        |       | projection<br> |                         | mm<br>←      |              |
| TOLERANCES UNLESS OTHERWISE SPECIFIED                                                 |          |            |                                                                                          |        |       |                                                                                                     |                         |              |              |
| Dr                                                                                    | M PESSON | 2006/11/14 | ANGULAR                                                                                  | LINEAR | 0.X   | ±0.3                                                                                                | size<br>A2              | Scale<br>2:1 |              |
| Eng                                                                                   | P LEGARE | 2006/11/14 |                                                                                          |        | 0.XX  | ±0.1                                                                                                |                         |              |              |
| Chr                                                                                   | P LEGARE | 2006/11/14 | 0° ±2°                                                                                   |        | 0.XXX | ±0.05                                                                                               | ECN                     | LS07-0311    |              |
| Appr                                                                                  | P LEGARE | 2006/11/14 | Product family                                                                           |        |       | -                                                                                                   | Spec ref                |              |              |
|  |          |            | SUB FEMALE DM HE508 series                                                               |        |       |                                                                                                     | deg no<br>C01-8637-1747 |              | Rev.<br>C    |
|                                                                                       |          |            | with 3 level wire wrap contact                                                           |        |       |                                                                                                     | CUSTOMER                |              | sheet 1 of 4 |
|                                                                                       |          |            |                                                                                          |        |       |                                                                                                     |                         |              |              |



FRONT ACCESSORY    **Blank** without    **F** floating mounting    **L** insert M3    **O** insert UNC 4.40    **V** female screw UNC 4.40

| PART NUMBER | FRONT ACCESSORY       |
|-------------|-----------------------|
| D*MxxS400N  | without               |
| D*MFxxS400N | floating mounting     |
| D*MLxxS400N | insert M3             |
| D*MOxxS400N | insert UNC 4.40       |
| D*MVxxS400N | female screw UNC 4.40 |

| shell size | Contact number |
|------------|----------------|
| *          | XX             |
| E          | 09             |
| A          | 15             |
| B          | 25             |
| C          | 37             |
| D          | 50             |

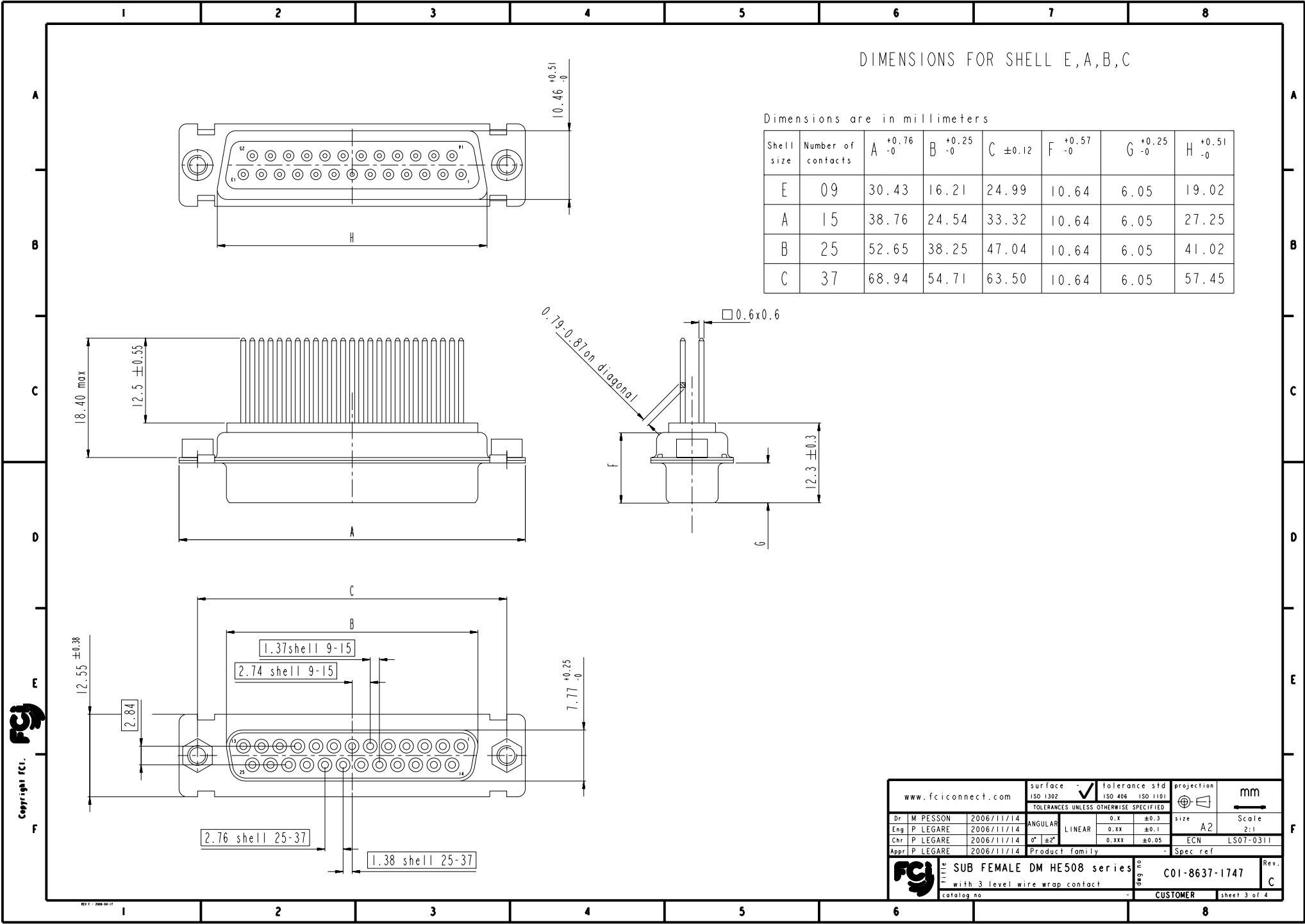
| PART NUMBER | FRONT ACCESSORY       |
|-------------|-----------------------|
| D*MxxS443N  | without               |
| D*MFxxS443N | floating mounting     |
| D*MLxxS443N | insert M3             |
| D*MOxxS443N | insert UNC 4.40       |
| D*MVxxS443N | female screw UNC 4.40 |

#### CROSS REFERENCES HE508 and FC1

| HE508 P/N   | FC1 P/N     | FRONT ACCESSORY   |
|-------------|-------------|-------------------|
| HE508NxxKS3 | D*MxxS400N  | without           |
| HE508FxxKS3 | D*MFxxS400N | floating mounting |

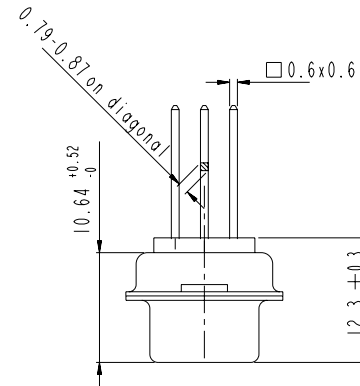
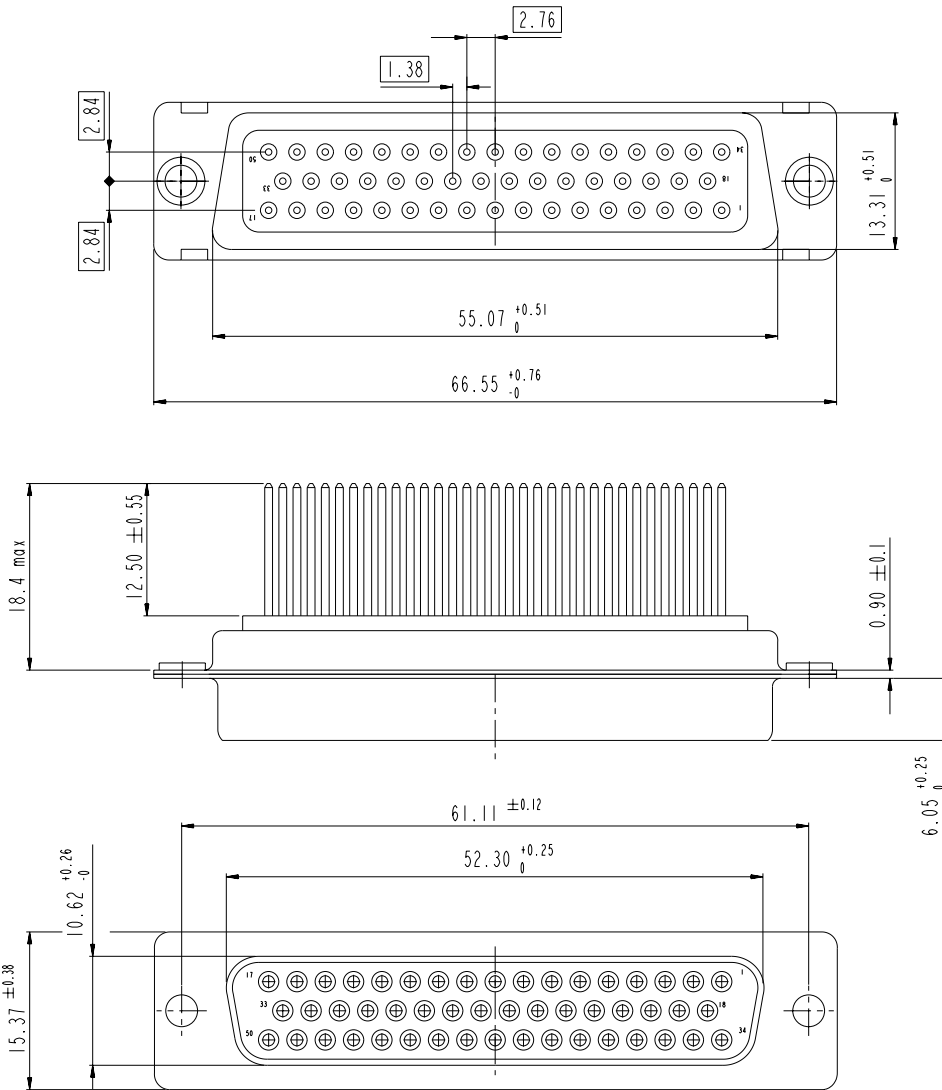
SCALE: 4

|                            |          |                                                        |                |                                                                                             |       |                                                                         |           |        |     |
|----------------------------|----------|--------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------|-----------|--------|-----|
| www.fciconnect.com         |          | surface - <input checked="" type="checkbox"/> ISO 1302 |                | tolerance std <input checked="" type="checkbox"/> ISO 406 <input type="checkbox"/> ISO 1101 |       | projection <input checked="" type="checkbox"/> <input type="checkbox"/> |           | mm     |     |
|                            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                  |                |                                                                                             |       |                                                                         |           |        |     |
| Dr                         | M PESSON | 2006/11/14                                             | ANGULAR        | 0.X                                                                                         | ±0.3  | size                                                                    | A2        | Scale  | 2:1 |
| Eng                        | P LEGARE | 2006/11/14                                             | LINEAR         | 0.XX                                                                                        | ±0.1  | ECN                                                                     | LS07-0311 |        |     |
| Chr                        | P LEGARE | 2006/11/14                                             | 0° ±2°         | 0.XXX                                                                                       | ±0.05 |                                                                         |           |        |     |
| Appr                       | P LEGARE | 2006/11/14                                             | Product family | Spec ref                                                                                    |       |                                                                         |           |        |     |
| SUB FEMALE DM HE508 series |          | with 3 level wire wrap contact                         |                | deg no                                                                                      |       | C01-8637-1747                                                           |           | Rev. C |     |
| catalog no                 |          |                                                        |                | CUSTOMER                                                                                    |       | sheet 2 of 4                                                            |           |        |     |



|                                                                                       |          |            |                                                                                        |       |            |                                                                                                  |               |                                                                                       |       |
|---------------------------------------------------------------------------------------|----------|------------|----------------------------------------------------------------------------------------|-------|------------|--------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|-------|
| www.fciconnect.com                                                                    |          |            | surface <input checked="" type="checkbox"/> tolerance std<br>ISO 1302 ISO 406 ISO 1101 |       |            | projection  |               |  |       |
| TOLERANCES UNLESS OTHERWISE SPECIFIED                                                 |          |            |                                                                                        |       |            |                                                                                                  |               |                                                                                       |       |
| Dr                                                                                    | M PESSON | 2006/11/14 | ANGULAR                                                                                | 0.X   | $\pm 0.3$  |                                                                                                  | size          | A2                                                                                    | Scale |
| Eng                                                                                   | P LEGARE | 2006/11/14 | LINEAR                                                                                 | 0.XX  | $\pm 0.1$  |                                                                                                  | 2:1           |                                                                                       |       |
| Chr                                                                                   | P LEGARE | 2006/11/14 | $\phi^{\circ} \pm 2^{\circ}$                                                           | 0.XXX | $\pm 0.05$ |                                                                                                  | ECN           | LS07-0311                                                                             |       |
| Appr                                                                                  | P LEGARE | 2006/11/14 | Product family                                                                         |       |            | - Spec ref                                                                                       |               |                                                                                       |       |
|  |          |            | SUB FEMALE DM HE508 series                                                             |       |            |                                                                                                  | C01-8637-1747 |                                                                                       | Rev.  |
| with 3 level wire wrap contact                                                        |          |            |                                                                                        |       |            |                                                                                                  |               |                                                                                       | C     |
| catalog no                                                                            |          |            | CUSTOMER                                                                               |       |            |                                                                                                  | sheet 3 of 4  |                                                                                       |       |

# DIMENSIONS FOR SHELL D (50 CONTACTS)



|                            |          |                                       |                |               |         |            |            |           |
|----------------------------|----------|---------------------------------------|----------------|---------------|---------|------------|------------|-----------|
| www.fciconnect.com         |          | surface                               | ISO 1302       | tolerance std | ISO 406 | ISO 1101   | projection | mm        |
|                            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |                |               |         |            | size       | Scale     |
| Dr                         | M PESSON | 2006/11/14                            | ANGULAR        | LINEAR        | 0.X     | $\pm 0.3$  | A2         | 2:1       |
| Eng                        | P LEGARE | 2006/11/14                            | 0.XX           |               | 0.XX    | $\pm 0.1$  | ECN        | LS07-0311 |
| Chr                        | P LEGARE | 2006/11/14                            | 0.XXX          |               | 0.XXX   | $\pm 0.05$ | Spec ref   |           |
| Appr                       | P LEGARE | 2006/11/14                            | Product family |               |         |            |            |           |
| SUB FEMALE DM HE508 series |          | with 3 level wire wrap contact        |                | C01-8637-1747 |         | Rev.       |            | C         |
| catalog no                 |          | CUSTOMER                              |                | sheet 4 of 4  |         |            |            |           |