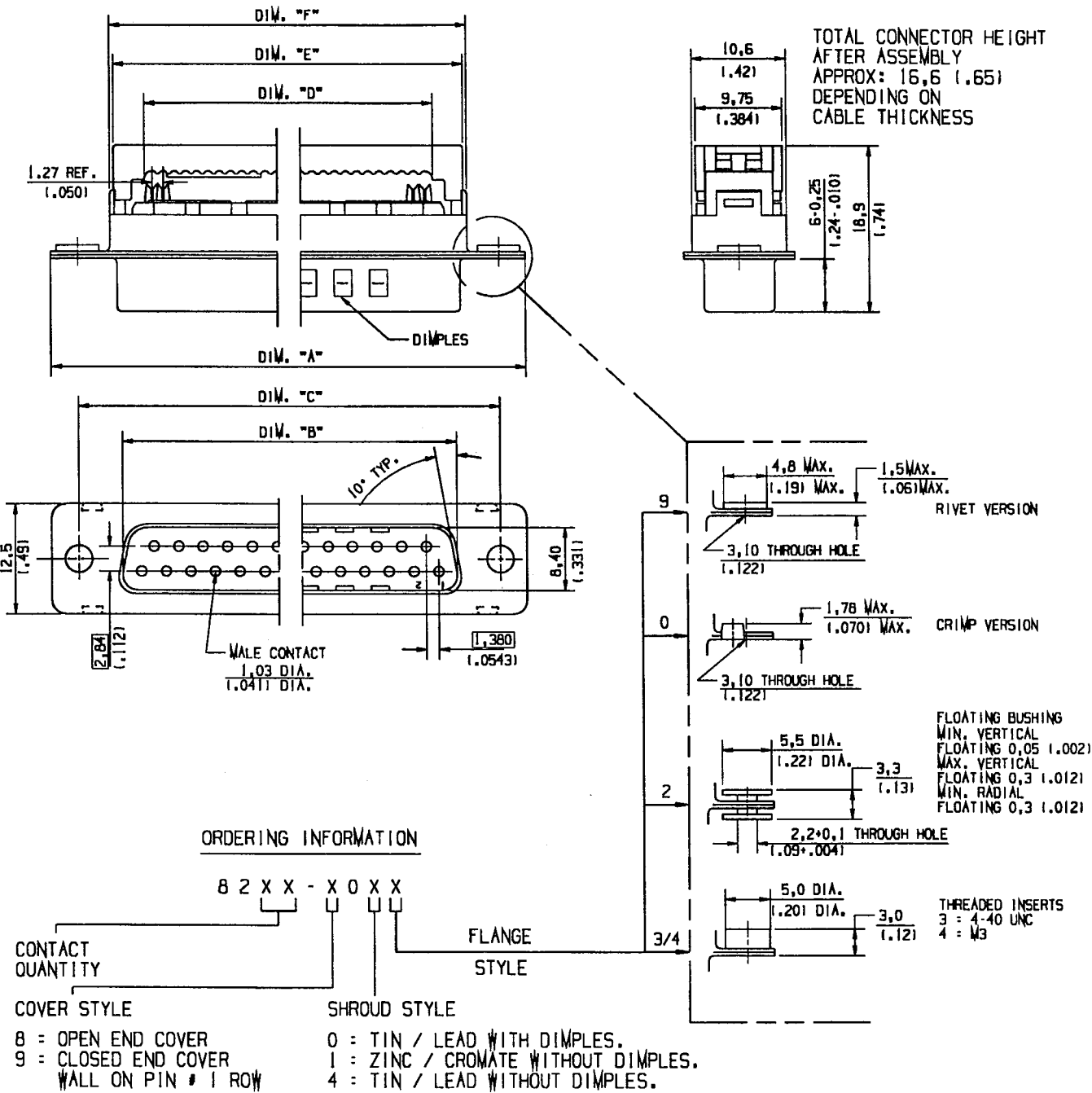


| CONTACT QUANTITY | 3M PART NUMBER | DIM. "A"<br>+ 0 mm<br>- 0,76 mm | DIM. "B"<br>+ 0,10 mm<br>- 0,10 mm | DIM. "C"<br>+ 0,10 mm<br>- 0,10 mm | DIM. "D"<br>+ 0,10 mm<br>- 0,10 mm | DIM. "E"<br>+ 0,10 mm<br>- 0,10 mm | DIM. "F"<br>+ 0,25 mm<br>- 0,25 mm |
|------------------|----------------|---------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 9                | 8209-X0XX      | 31,19(1.228)                    | 16,95( .667)                       | 25,00( .984)                       | 11,75( .462)                       | 16,90( .665)                       | 17,8( .70)                         |
| 15               | 8215-X0XX      | 39,52(1.556)                    | 25,30( .996)                       | 33,30(1.311)                       | 19,40( .763)                       | 25,20( .992)                       | 26,1(1.03)                         |
| 25               | 8225-X0XX      | 53,42(2.103)                    | 39,00(1.535)                       | 47,00(1.850)                       | 32,20(1.267)                       | 39,00(1.535)                       | 39,8(1.57)                         |
| 37               | 8237-X0XX      | 69,70(2.774)                    | 55,45(2.183)                       | 63,50(2.500)                       | 47,60(1.874)                       | 55,50(2.185)                       | 56,3(2.22)                         |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |       |  |       |                                    |        |         |      |                                           |              |                  |  |         |  |     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|-------|------------------------------------|--------|---------|------|-------------------------------------------|--------------|------------------|--|---------|--|-----|--|
| <p>IMPORTANT NOTICE TO PURCHASER: ALL STATEMENTS TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS WE BELIEVE TO BE RELIABLE BUT THE ACCURACY OR COMPLETENESS THEREOF IS NOT GUARANTEED, AND THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESS OR IMPLIED:<br/>SELLER'S AND MANUFACTURER'S ONLY OBLIGATION SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT PROVED TO BE DEFECTIVE. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR HIS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. NO STATEMENT OR RECOMMENDATION NOT CONTAINED HEREIN SHALL HAVE ANY FORCE OR EFFECT UNTIL IN A AGREEMENT SIGNED BY OFFICERS OF SELLER AND MANUFACTURER.</p> |  |       |  |       | Electronic<br>Products<br>Division |        | 3M      |      | B                                         |              | OCTOBER 10, 1996 |  | Mc      |  |     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |       |  |       |                                    |        |         |      | ISSUE                                     |              | ISSUE DATE       |  | REV.    |  | CH. |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |       |  |       |                                    |        |         |      | D - SUB CONNECTOR<br>MALE<br>PREASSEMBLED |              |                  |  |         |  |     |  |
| TOLERANCE UNLESS NOTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |       |  |       | MM<br>1 INCH                       |        | SCALE % |      | CS 4227                                   |              |                  |  |         |  |     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | .0    |  | .00   |                                    | .000   |         | DR.  |                                           |              |                  |  | SPIJKER |  |     |  |
| MM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | ± .25 |  | ± .10 |                                    | ▨      |         | APP. |                                           |              |                  |  | HORNIG  |  |     |  |
| (INCH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | ±     |  | ± .01 |                                    | ± .005 |         |      |                                           | SHEET<br>1/2 |                  |  |         |  |     |  |

# DELTA CONNETOR SPECIFICATION

**SCOPE :** This specification details the requirements for a multipurpose pin connector having .0545" (1,384 mm)x .112" (2,84 mm) contact spacing transition between round conductor flat cable on .050" (1,27 mm ) centers and a socket connector having similar spacing

**UL FILE NO. :** E 68080  
**CSA FILE NO.:** LR 40971

## SPECIFICATIONS:

### PHYSICAL

|                                   |                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------|
| INSULATOR MATERIAL                | Glass reinforced polyester<br>Flammability rating:UL 94V-0                            |
| COLOR                             | Grey                                                                                  |
| MARKING                           | Raised figures; 3M logo; part identification/date code number;contact position number |
| SHELL MATERIAL                    | Steel                                                                                 |
| PLATING                           | Tin                                                                                   |
| CONTACT MATERIAL                  | Copper alloy                                                                          |
| PLATING                           | Selective gold in functionel area over nickel                                         |
| WIRE ACCOMMODATION                | 26 AWG solid or stranded<br>28 AWG solid or stranded                                  |
| THREADED INSERT<br>PUSH OUT FORCE | 50 N min                                                                              |

### ELECTRICAL

|                       |                                   |
|-----------------------|-----------------------------------|
| CURRENT RATING        | 1A                                |
| INSULATING RESISTANCE | $>1 \times 10^9 \Omega$ @ 500 vdc |
| WITHSTANDING VOLTAGE  | 1000 VRMS @ Sea Level             |

### ENVIRONMENTAL

|                    |                                          |
|--------------------|------------------------------------------|
| TEMPERATURE RATING | -67 °F to +221 °F<br>(-55 °C to +105 °C) |
|--------------------|------------------------------------------|

CS 4227 Sheet 2/2 Issue B