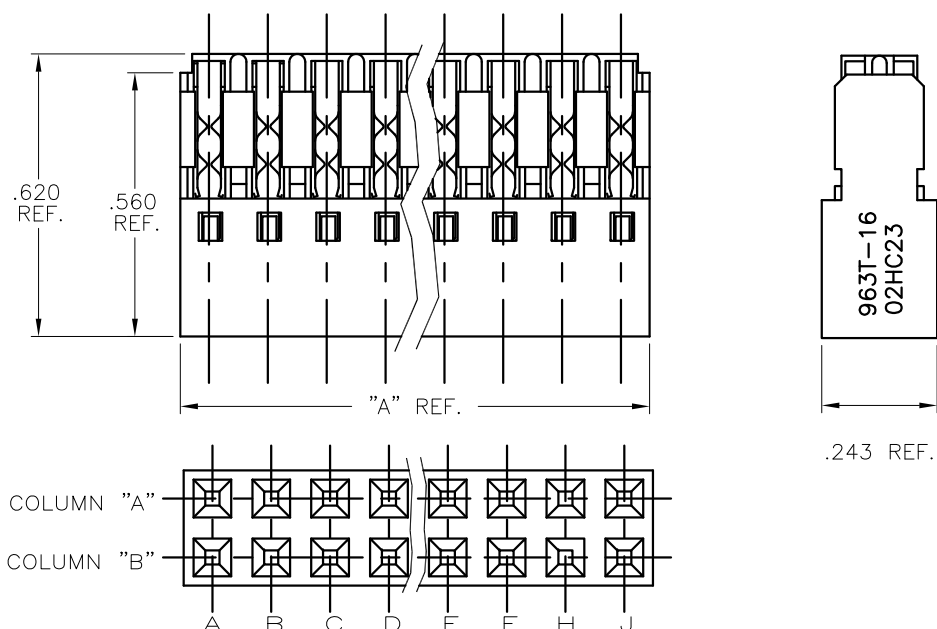


963T TYPE CONNECTORS  
 963T-16 SHOWN BELOW


## TECHNICAL SPECIFICATIONS

|                          |                                               |
|--------------------------|-----------------------------------------------|
| CONTACT: SPACING TYPE    | 0.125 INCH<br>2 POINT OF CONTACT SOCKET       |
| RESISTANCE               | 13 MILLIOHM ( TYPICAL )                       |
| OPERATING TEMPERATURE    | -55°C TO 85°C                                 |
| DURABILITY               | 200 INSERTION/EXTRACTIONS MIN.                |
| WITHSTANDING VOLTAGE     | 1,500 V rms (MIN.),<br>2,500 V SURGE (MIN.) * |
| INSERTION FORCE          | 0.25 LB. MAXIMUM/CONTACT                      |
| EXTRACTION FORCE         | 0.25 LB. MAXIMUM/CONTACT                      |
| NORMAL FORCE             | 100 GRAMS MINIMUM                             |
| WIRE SIZE ***            | 28 TO 24 AWG, .040" MAX. INSUL.               |
| MAX. RECOMMENDED CURRENT | 1.5 AMP/CONTACT (MAXIMUM) **                  |

\* BASED ON SURGE HAVING 10 U SEC. RISE TIME &amp; 700 U SEC. FALL TO 1/2 PEAK.

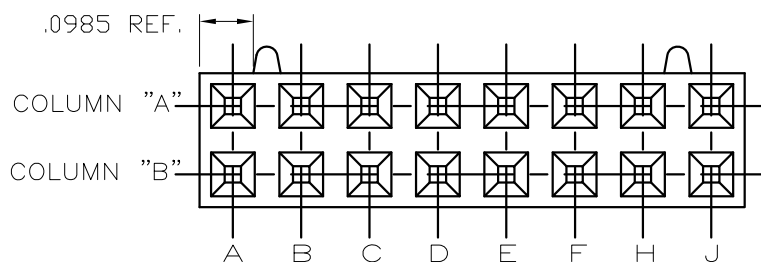
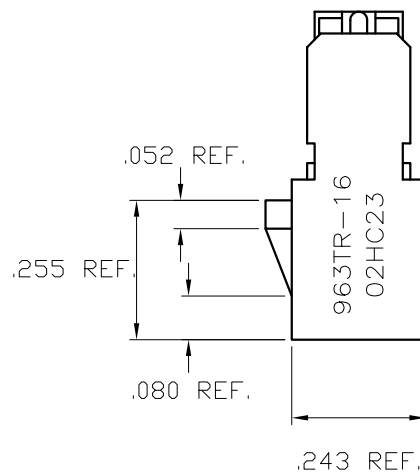
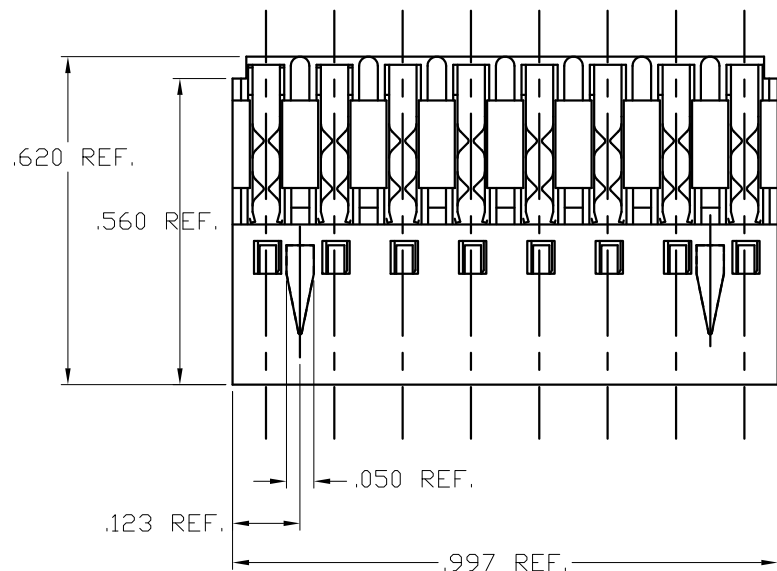
\*\* BASED ON A 30°C TEMPERATURE RISE, WITH ALL CONTACTS SIMULTANEOUSLY CARRYING THE SAME CURRENT REFERENCES AND FREE CONVECTION COOLING.

\*\*\* SEE NOTE 4

|                           |          |     |            |                                       |                         |                    |                                    |
|---------------------------|----------|-----|------------|---------------------------------------|-------------------------|--------------------|------------------------------------|
| mat'l. code<br>SEE NOTE 1 |          |     |            | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection<br>INCH | product family<br>FASTECH          |
| ltr                       | ecm no   | dr  | date       | tolerances unless otherwise specified |                         | scale              | title                              |
| H                         | V06-1118 | HTB | 2006-11-15 | angles                                | to 1/2                  | INCH               | 963T & 963TR<br>CONNECTOR ASSEMBLY |
| J                         | V06-1201 | HTB | 2006-12-14 |                                       |                         | scale NTS          |                                    |
| K                         | V09-0136 | HTB | 2009-03-25 |                                       |                         |                    |                                    |
| -                         | -        | -   | -          | dr                                    | R. CONRAD               | 2001-06-29         | dwg no                             |
| E                         | V05-0152 | HTB | 2005-03-04 | engr                                  | R. CONRAD               | 2001-06-29         | sheet 1 of 3                       |
| F                         | V06-0195 | HTB | 2006-03-10 | chr                                   | R. CONRAD               | 2001-06-29         | size                               |
| G                         | V06-0647 | JRV | 2006-07-05 | appd                                  | R. CONRAD               | 2001-06-29         | A4                                 |
| sheet index               | revision | K   | K          | K                                     |                         |                    | type                               |
|                           | sheet    | 1   | 2          | 3                                     |                         |                    | CUSTOMER Drawing                   |

PRODUCT NUMBER  
SEE TABLE

963TR TYPE CONNECTORS (WITH RIBS)  
963TR-16 SHOWN BELOW



|                           |          |    |      |                                       |                         |            |                                    |
|---------------------------|----------|----|------|---------------------------------------|-------------------------|------------|------------------------------------|
| mat'l. code<br>SEE NOTE 1 |          |    |      | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection | product family<br>FASTECH          |
| ltr                       | ec'n no  | dr | date | tolerances unless otherwise specified |                         | INCH       | title                              |
| k                         |          |    |      | angles                                | fin                     |            | 963T & 963TR<br>CONNECTOR ASSEMBLY |
|                           |          |    |      |                                       |                         | scale: NTS | dwg no                             |
|                           |          |    |      | dr                                    | R. CONRAD               | 2001-06-29 | sheet 2 of 3                       |
|                           |          |    |      | engr                                  | R. CONRAD               | 2001-06-29 | size                               |
|                           |          |    |      | chr                                   | R. CONRAD               | 2001-06-29 | A4                                 |
|                           |          |    |      | appd                                  | R. CONRAD               | 2001-06-29 | type                               |
| sheet                     | revision |    |      |                                       |                         |            | CUSTOMER Drawing                   |
| index                     | sheet    |    |      |                                       |                         |            |                                    |

| PRODUCT NUMBER<br>NOTE 3 AND 6 | DIM. "A" | COLOR   | NOTES    |
|--------------------------------|----------|---------|----------|
| 963T-6                         | 0.372    | NATURAL |          |
| 963T-6LF                       | 0.372    | NATURAL |          |
| 963T-6-CB                      | 0.372    | NATURAL | OBSOLETE |
| 963T-8                         | 0.497    | NATURAL |          |
| 963T-8LF                       | 0.497    | NATURAL |          |
| 963T-8-CB                      | 0.497    | NATURAL | OBSOLETE |
| 963T-12                        | 0.747    | NATURAL |          |
| 963T-12LF                      | 0.747    | NATURAL |          |
| 963T-12-CB                     | 0.747    | NATURAL | OBSOLETE |
| 963T-16                        | 0.997    | NATURAL |          |
| 963T-16LF                      | 0.997    | NATURAL |          |
| 963T-16-CB                     | 0.997    | NATURAL | OBSOLETE |
| 963T-20                        | 1.247    | NATURAL |          |
| 963T-20LF                      | 1.247    | NATURAL | OBSOLETE |
| 963T-20-CB                     | 1.247    | NATURAL | OBSOLETE |
| 963T-20-16                     | 1.247    | NATURAL | OBSOLETE |
| 963T-20-16LF                   | 1.247    | NATURAL | NOTE 3   |
| 963T-20-16-CB                  | 1.247    | NATURAL | OBSOLETE |
| 963T-20-16G                    | 1.247    | GRAY    | OBSOLETE |
| 963T-24                        | 1.497    | NATURAL |          |
| 963T-24LF                      | 1.497    | NATURAL | OBSOLETE |
| 963T-24-CB                     | 1.497    | NATURAL | OBSOLETE |
| 963T-24-16                     | 1.497    | NATURAL | OBSOLETE |
| 963T-24-16-CB                  | 1.497    | NATURAL | OBSOLETE |
| 963T-28                        | 1.747    | NATURAL | OBSOLETE |
| 963T-32                        | 1.997    | NATURAL | OBSOLETE |
| 963T-32-CB                     | 1.997    | NATURAL | OBSOLETE |
| 963T-50                        | 3.122    | NATURAL | OBSOLETE |
| 963T-56                        | 3.497    | NATURAL | OBSOLETE |
| 963T-68                        | 4.247    | NATURAL |          |
| 963T-68LF                      | 4.247    | NATURAL |          |
| 963T-68-CB                     | 4.247    | NATURAL | OBSOLETE |
| 963TR-16                       | 0.997    | NATURAL |          |
| 963TR-16LF                     | 0.997    | NATURAL |          |

## NOTES:

- CONTACT MATERIAL: C52100, Au/Pd/Ag INLAY,  
IDC AREA 100% TIN PLATED.  
INSULATOR MATERIAL: GF NYLON, COLOR: NATURAL (LIGHT TAN) OR GRAY.
- CONTACT CAVITIES ARE IDENTIFIED FOR REFERENCE ONLY WITH LETTER DESIGNATIONS STARTING WITH ROW "A" THRU "Y" (OMITTING G,I,O,Q,V,X,Z) AND COLUMNS "A" AND "B".
- 963TR PRODUCT NUMBERS HAVE RIBS FOR USE WITH THE 12 TYPE RETAINERS.  
PRODUCT NUMBERS ENDING WITH "CB" WERE SPECIAL CODED CONNECTORS FOR LUCENT COLUMBUS WORKS AND ARE NO LONGER AVAILABLE.  
FOR PRODUCT NUMBERS 963T-20-16LF, 963T-20-16-CB, & 963T-20-16G: OMIT CONTACTS FROM ROW A AND L ON BOTH COLUMNS A AND B.  
FOR PRODUCT NUMBERS 963T-24-16 AND 963T-24-16-CB: OMIT CONTACTS FROM ROW A, B, M AND N ON BOTH COLUMNS A AND B.
- SEE APPLICATION SPECIFICATION GS-20-004 FOR INSTRUCTIONS ON WIRE INSERTION, ASSEMBLY OF OPTIONAL COVERS AND APPROVED WIRE.
- SEE CUSTOMER DRAWING A92KC4077 FOR INFORMATION ON SNAP ON COVERS.
- PART NUMBERS WITH AN LF SUFFIX MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- THIS PRODUCT IS NOT INTENDED TO BE EXPOSED TO MANUFACTURING SOLDERING PROCESSES.

|             |        |                |      |                                       |           |                                                                                       |  |                                    |              |
|-------------|--------|----------------|------|---------------------------------------|-----------|---------------------------------------------------------------------------------------|--|------------------------------------|--------------|
| mat'l. code |        | surface        |      | tolerance                             |           | projection                                                                            |  | product family                     |              |
| SEE NOTE 1  |        | ASME Y14.5     |      | ASME Y14.5                            |           |  |  | FASTECH                            |              |
| ltr         | ecr no | dr             | date | tolerances unless otherwise specified |           | INCH                                                                                  |  | title                              |              |
| K           |        |                |      | angles                                | from      | scale NTS                                                                             |  | 963T & 963TR<br>CONNECTOR ASSEMBLY |              |
|             |        |                |      | dr                                    | R. CONRAD | 2001-06-29                                                                            |  |                                    | dwg no       |
|             |        |                |      | enrg                                  | R. CONRAD | 2001-06-29                                                                            |  |                                    | sheet 3 of 3 |
|             |        |                |      | chr                                   | R. CONRAD | 2001-06-29                                                                            |  |                                    | size         |
|             |        |                |      | appd                                  | R. CONRAD | 2001-06-29                                                                            |  |                                    | A4           |
| sheet index |        | revision sheet |      |                                       |           |                                                                                       |  | type CUSTOMER Drawing              |              |