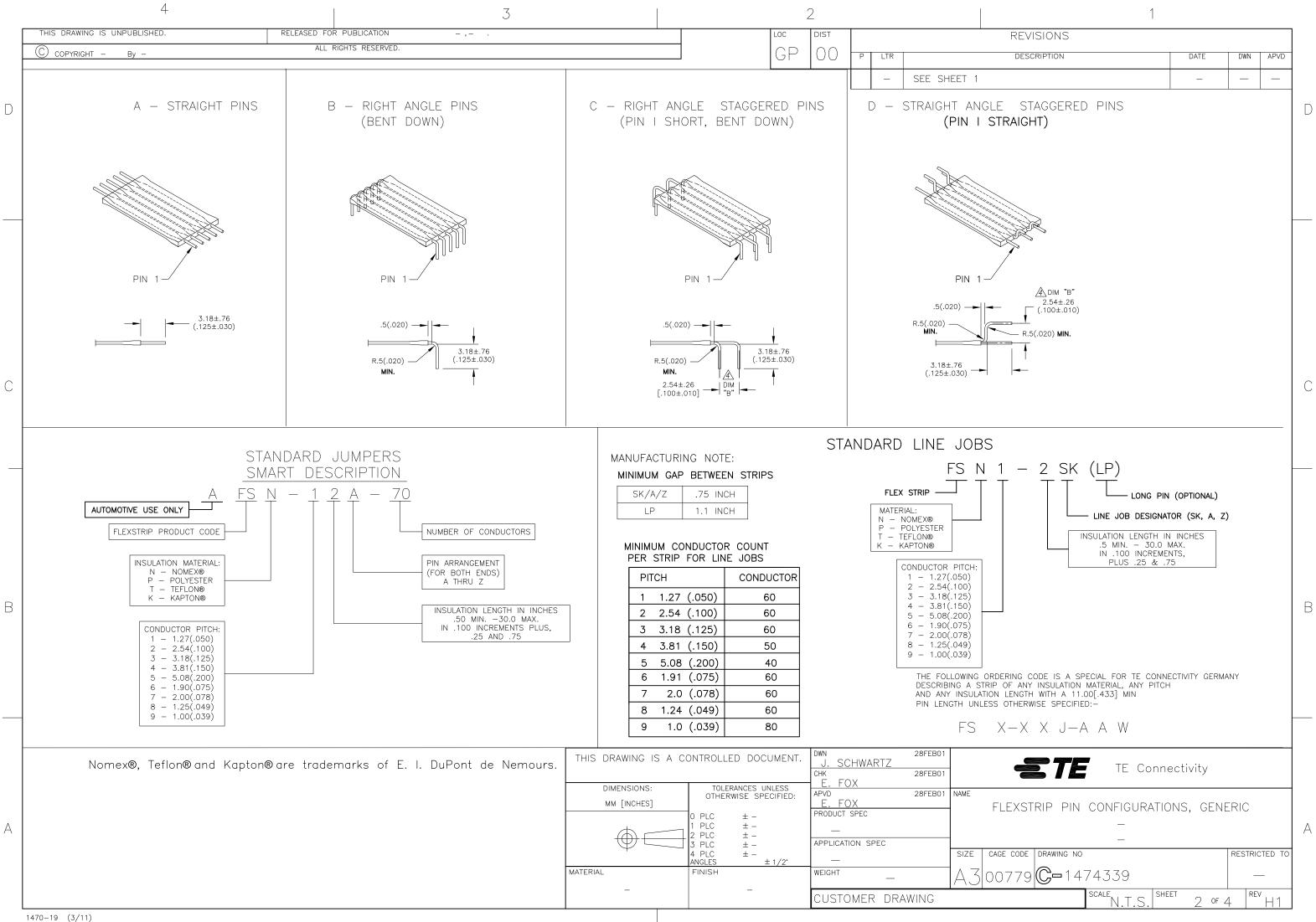
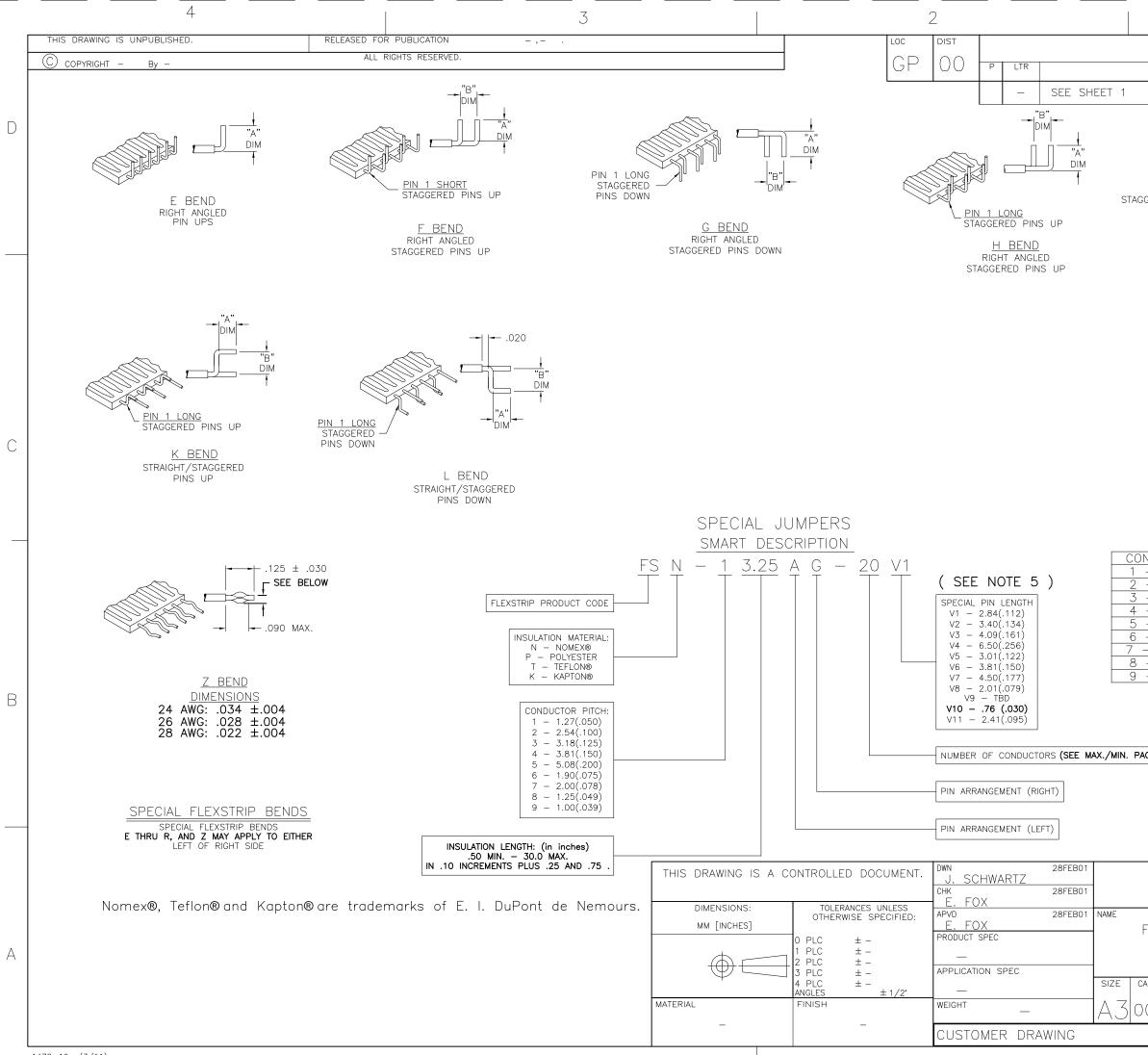
| 4   | 3  |                      |   | 2   |  |                     | 1   |                        |              |
|---|--|----------------------|---|---|--|---------------------|---|------------------------|--------------|
|   | OR PUBLICATION - ,   |                      | LOC   | DIST  |  | REVISIONS           |   |                        |              |
| COPYRIGHT - By - ALL  | RIGHTS RESERVED.   |                      | G   | P 00 PT                                       | TR   | DESCRIPTION         |   | DATE                   | DWN APVD     |
|   |  |                      |   |   | I1 ECR-11-025464                                 |                     | 1   | 6DEC11 F               | RK BVH       |
| NOTES:  |  |                      |   |   |  | -<br>               |   |                        |              |
| $\bigwedge$ pitch tolerance to be ±.18[.007] for 1  | 1.27[050] PITCH JUMPERS                                    |                      |   | (PIN DIAMETER)                                | A —  | -                   |   |                        |              |
| & ±.25[.010] FOR ALL REMAINING PITCHES.<br>TOLERANCE TO BE NON CUMULATIVE OVER  |  |                      |   |   |  |                     |   |                        |              |
| TOLERANCE TO BE NON CUMULATIVE OVER   | GAUGE LENGTH.  |                      | L   |   |  |                     |   |                        |              |
| 11.92-152.40[.500-6.000] ARE STANDARD   | LENGTHS. JUMPERS ARE AVAILABLE                             |                      |   |   |  |                     | V (MAX ADHESIVE FLOW)<br>NOT INCLUDED IN DIM B  |                        |              |
| IN INCREMENTS OF 2.50[.10] PLUS 6.35[.25  | J AND 19.05[.75].  |                      |   |   |  |                     |   |                        |              |
| A DELETED   |  |                      |   |   |  | ///////             | 7   |                        |              |
| ${\cancel{A}}$ for conductor pitch 7 (2mm), on page   | 2 & 3, DIMENSION "B" IS 2.00[.079]                         | 1                    |   |   |  |                     | Z<br>PLC)   |                        |              |
| $\triangle$ special pin lengths are available for .   | JUMPERS WITH A PIN CONFIGURATION                           |                      |   |   |  |                     |   |                        |              |
| OF "A" OR "B" ON LENGTHS OF UP TO 6   | 09.6[24.0] IN 2.54[.100] & 5.08[.200] PITCH<br>G SUFFIXES: |                      |   |   |  |                     |   |                        |              |
|   | j SUFFIXES:  |                      |   |   |  |                     |   |                        |              |
| SUFFIX PEN LENGTH TOLERANCE   |  |                      |   | .   |  |                     | JUMPER<br>LENGTH  |                        |              |
| V1 2.85 (.112)<br>V2 3.40 (.134)  | "C"  | F₽                   | (MID-PIN THICKNESS SEE CHART  |   |  |                     | R±1.524(.060)   |                        | I            |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |  |                      |   |   |  |                     |   |                        |              |
| V5 3.10 (.122) ±.305<br>V6 2.81 (.150) 5.012  |  |                      |   |   |  |                     |   |                        |              |
| V6 2.81 (.150) [±.012]<br>V7 4.50 (.177) [±.012]  | DIMENSION FROM THE<br>OF INSULATION MATER                  |                      |   |   |  |                     |   |                        |              |
| V8 2.00 (.079)<br>V9 TBD  | EDGE OF THE FIRST  | COND.                | -   | <u>+</u>                                      |  |                     |   |                        |              |
| V10 .76 (.030)<br>V11 2.41 (.095)   | EXCEPT "M" STYLE.  | _                    |   | ÷  \\/\\/\/\/                                 |  | \// \// \//         |   |                        |              |
|   |  |                      | <u> </u>  |   |  |                     | <u> </u>  |                        |              |
| 6. RECOMMENDED PCB HOLE DRILLING DETAILS  | S ARE AS FOLLOWS:-   |                      |   |   |  |                     |   |                        |              |
| PITCH A ØG  |  |                      | NO NICKS<br>ON INSULATI   |   |  |                     |   |                        |              |
| 1.27 (.050) .70 (.028)  | PITCH A  | _                    |   |   | TRANSITION OUTSIDE INSULATION                    | I AREA              |   |                        |              |
| 1.90 (.075) .80 (.031)  |  | D                    | ►   |   | ICTOR WIDTH)                                     | (1.)                | MAX DRAW ANGLE)   |                        |              |
| 2.54 (.100) .95 (.037)  | -(+)(+)  |                      |   | -   | JUMPER WIDTH                                     |                     | WAA DIRAW ANOLLY  |                        |              |
| 3.18 (.125) .95 (.037)  |  | JUMPER PI            | TRANSITION  | MAX/MIN                                       | PIN WIRE MIN                                     | MAX MAXIMUM         | MIN GAP<br>Retween CONDUCTOR  | MAXIMUM                | , MAX        |
| 3.81 (.150) .95 (.037)  |  | LENGTH (NO           | MINAL) MAX  | MARGIN  | PIN WIRE MIN,<br>GUAGE No<br>DIAMETER (AWG) COND |                     | MIN GAP<br>BETWEEN<br>CONDUCTORS WIDTH  | INSULATION<br>MISMATCH | THICKNESS    |
| 5.08 (.200) .95 (.037)  |  |                      | A /1 T<br>.00 4.32  | 0.35 (.014) 0.3                               | <u> </u>   | - V<br>70 0.38      | X Y<br>0.13 0.76 (.030  | <u> </u>               | D            |
| Δ   |  | (50) TO $(0.1)$      | .039) [.170]  | 0.17 (.007) 0.3                               | <u>17 (.0125)</u>                                | (0.015)             | (0.009) 0.56 (.022  | ) (.030)               | .64          |
| BEND RADIUS TO APPLY ONLY IN THE FLAT   |  | 863.6                | .049) [.170]  | 0.50 (0.020) 0.33<br>0.17 (0.007) 0.32        | 7 (0.0125) 20 2                                  | -70 0.38<br>(0.015) | 0.25 0.89 (.035<br>(0.010) 0.64 (.025   | ) .76<br>) (.030)      | .64          |
| JUMPER BETWEEN THE CONDUCTOR TRANSIT  | IUN AREAS.   |                      | .27 4.32<br>.050) [.170]  | 0.50 (0.020) 0.33<br>0.17 (0.007) 0.3         | 50 (0.0130)<br>7 (0.0125) 28 2-                  | -70 0.38 (0.015)    | 0.25 0.89 (.035<br>(0.010) 0.64 (.025   | ) .76<br>) (.030)      | .64          |
| 28 PER 108-2135.  |  | STEDS 2              | 2.00 5.08   | 0.70 (0.028) 0.41                             | 6 (0.0164)                                       | 0.38                | 0.38 1.14 (.045   | .76                    | .84          |
| 9. TOOL MARKS PERMISSIBLE ON BENDS. NO $\wedge$   |  | OF 2.50 1.           | .079) [.200]<br>.90 5.08  | 0.25 (0.010) 0.40<br>0.70 (0.028) 0.41        | 6 (0.0164) 26 2                                  | 0.38                | <u>(0.015)</u> 0.89 (.035)<br>0.38 1.14 (.045)  | .76                    |              |
| A PIN DIAMETER SPECIFIED NOT APPLICABLE<br>DUE TO NORMAL DEFORMATION OF BENDIN  | IN BENDING AREA OF PIN,<br>G PROCESS.                      | (.10) (0.0           | .075) [.200]<br>2.54 6.35   | 0.25 (0.010) 0.40<br>0.80 (0.031) 0.52        | $0 (0.0157) = 20 = 2^{-1}$                       | (0.015)             | <u>(0.015)</u> 0.89 (.035)<br>0.51 1.52 (.060)  | ) (.030)               | .84          |
| REFER TO RELEVANT MATERIAL SPECIFICATION  |  | 6 35 (0.             | .100) [.250]  | 0.25 (0.010) 0.50                             | )5 (0.0199)  <sup>24</sup>   <b>2</b> -          | (0.020)             | (0.020) 1.27 (.050)   | ) (.030)               | .84          |
|   |  |                      | 3.18 6.35<br>.125) [.250]   | 1.00 (0.039) 0.52<br>0.25 (0.010) 0.50        | 26 (0.0207)<br>05 (0.0199) 24 2-                 | -25 0.51 (0.020)    | 0.51 1.52 (.060)<br>(0.020) 1.27 (.050)   | ) .76<br>) (.030)      | .84          |
| F – MID POINT THICKNESS BETWEEN PT  |  | AND 3                | 3.81 6.35<br>.150) [.250]   | 1.00 (0.039) 0.52<br>0.25 (0.010) 0.50        | 26 (0.0207) 24 2                                 | 20 0.51             | 0.51 1.52 (.060<br>(0.020) 1.27 (.050)  | .76                    | .84          |
|   | AXIMUM   | (75) 5               | 5.08 6.35   | 1.00 (0.039) 0.52                             | 26 (0.0207) 24 2                                 | 15 0.51             | 0.51 1.52 (.060)  | .76                    | .84          |
|   | 05 [.012]  | (U.                  | .200) [.250]  | 0.25 (0.010) 0.50                             | 05 (0.0199) 24 2<br>28FEB01                      | (0.020)             | (0.020) 1.27 (.050)   | ) (.030)               |              |
| POLYESTER .152 .006 .30   | 05 [.012]<br>04 [.010]                                     | THIS DRAWING IS A CO | ONTROLLED DOCUME  | J. SCHWART                                    | Z  | ST.                 | TE Connect  | ivitv                  |              |
|   | · []   | DIMENSIONS:          | TOLERANCES UNLES  | E. FOX  | 28FEB01  |                     |   |                        |              |
| KAPTON® .102 [.004] .25   | 3 [.021]   |                      | OTHERWISE SPECIFI   | ED. APVD                                      | 28FEB01 NAME                                     |                     | N CONFIGURATIONS  |                        |              |
| KAPTON® .102 [.004] .25   | 33 [.021]  | MM [INCHES]          | official of contract  | E. FOX  |  | -                   | $1 \times 1 \times$ | , GENERI               | .10          |
| KAPTON®     .102     [.004]     .25       TEFLON®     .305     [.012]     .53       12. PRODUCT AND PROCESSING MUST MEET RECOMPTION     |  |                      | 0 PLC ± -   | E. FOX<br>PRODUCT SPEC                        |  | LEXSIRIP PI         | _   |                        |              |
| KAPTON®.102 [.004].25TEFLON®.305 [.012].5312. PRODUCT AND PROCESSING MUST MEET REC<br>TE CONNECTIVITY STANDARD 230-702.                 | QUIREMENTS OF  |                      | 0 PLC ± -<br>1 PLC ± -<br>2 PLC ± -   | PRODUCT SPEC                                  |  | -lexstrip pi        | _<br>   |                        |              |
| KAPTON®     .102     [.004]     .25       TEFLON®     .305     [.012]     .53       12.     PRODUCT AND PROCESSING MUST MEET RECOMPTION | QUIREMENTS OF  |                      | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | PRODUCT SPEC<br>—<br>APPLICATION SPEC         |  | AGE CODE DRAWING I  | _   | RE                     | ESTRICTED TO |
| KAPTON®.102 [.004].25TEFLON®.305 [.012].5312. PRODUCT AND PROCESSING MUST MEET REC<br>TE CONNECTIVITY STANDARD 230-702.                 | QUIREMENTS OF  |                      | 0 PLC ± -<br>1 PLC ± -<br>2 PLC ± -<br>3 PLC ± -  | PRODUCT SPEC<br>—<br>APPLICATION SPEC         | SIZE C   | AGE CODE DRAWING    | —<br>—<br>NO  | RE                     | ESTRICTED TO |
| KAPTON®.102 [.004].25TEFLON®.305 [.012].5312. PRODUCT AND PROCESSING MUST MEET REC<br>TE CONNECTIVITY STANDARD 230-702.                 | QUIREMENTS OF  |                      | $\begin{array}{cccc} 0 & \text{PLC} & \pm & - \\ 1 & \text{PLC} & \pm & - \\ 2 & \text{PLC} & \pm & - \\ 3 & \text{PLC} & \pm & - \\ 4 & \text{PLC} & \pm & - \\ \text{ANGLES} & & \pm 1/2 \end{array}$ | PRODUCT SPEC<br>—<br>APPLICATION SPEC<br>2. — | - A30  |                     | —<br>—<br>NO  | RE                     | ESTRICTED TO |





| 1   |                                  |     |         |   |
|---|----------------------------------|-----|---------|---|
| REVISIONS   |                                  |     |         |   |
| DESCRIPTION   | DATE                             | DWN | APVD    |   |
|   | _                                | _   |         |   |
| PIN 1 STRAIGHT<br>GERED PINS DOWN   |                                  |     |         | D |
| STRAIGHT/STAG<br>PINS DOW   | GERED<br>N                       |     |         |   |
|   |                                  |     |         | C |
| NDUCTOR     PITCH     BENDS     AV       -     1.27/(.050)     E,F,G,H,       -     2.54/(.100)     E,F,G,H,       -     3.18/(.125)     E       -     3.81/(.150)     E       -     5.08/(.200)     E       -     1.91/(.075)     E,F,G,H,       -     2.00/(.0787)     E,F,G,H,       -     1.25/(.049)     E       -     1.00/(.039)     E | J,K,L<br>J,K,L<br>J,K,L<br>J,K,L |     |         | В |
| <u>E THRU L</u><br>"A"<br>DIM<br><u>3.18±0.76/(.</u><br>"B"<br>DIM<br>2.54±0.25/(.  |                                  |     |         |   |
| ETE CO  | nnectivity                       |     |         |   |
| FLEXSTRIP PIN CONFIGURA<br>—<br>—<br>Age code   drawing no  | TIONS, GENE                      |     | CTED TO | А |
| 00779 C= 1474339<br>scale N.T.S.  | SHEET 3 OF 2                     | -   | _       |   |
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SEE SHEET 1

| NORMAL CONDUCTOR PITCH  |                  | 1.00<br>(.039)   | 1.25<br>(.049)   | 1.27<br>(.050)   | 1.90<br>(.075)  | 2.00<br>(.078)  | 2.54<br>(.100)   | 3.18<br>(.125)             | 3.81<br>(.150)             | 5.08<br>(.200)   |
|---|------------------|--|--|--|---|---|--|----------------------------|----------------------------|--|
| WIRE GAUGE  |                  | AWG 28   | AWG 28   | AWG 28   | AWG 26  | AWG 26  | AWG 24   | AWG 24                     | AWG 24                     | AWG 24   |
| NOMINAL WIRE DIAMETER   |                  | .32(.0126)   | .32(.0126)   | .32(.0126)   | .40(.0159)  | .40(.0159)  | .51(.0201)   | .51(.0201)                 | .51(.0201)                 | .51(.0201)   |
| CURRENT RATING  |                  | 8  | 8  | 8  | 8   | 8   | 8  | 8                          | 8                          | 8  |
| VOLTAGE RATING  |                  | 8  | 8  | 8  | 8   | 8   | 8  | 8                          | 8                          | 8  |
| MAX NUMBER OF CONDUCTORS<br>PER JUMPER                                  |                  | 8  | 8  | 8  | 8   | 8   | 8  | 8                          | 8                          | 8  |
| MIN BREAKDOWN VOLTAGE<br>@ 1 MIN  |                  | 8  | 8  | 8  | 8   | 8   | 8  | 8                          | 8                          | 8  |
| INSULATION RESISTANCE<br>(GND. SIG. GND)<br>305 (12°) SAMPLE @ 500VDC   | P<br>N<br>T<br>K | 8  | 8  |  |   | 8   | 8  | 8                          | 8                          |  |
| CAPACITANCE<br>(pf / 50.8 (12*) LENGTH)<br>(GND, SIG, GND)<br>(AVERAGE) | P<br>N<br>T<br>K | 8  | 8  | 8  | 8   | 8   | 8  | 8                          |                            | 8  |
| CHARACTERISTIC IMPEDANCE<br>(GND. SIG. GND)<br>(AVERAGE)                | P<br>N<br>T<br>K | 8  | 8  |  | 8   | 8   | 8  |                            | 8                          | 8  |
| APPLICATION TEMP RANGE (C*)<br>(FOR SOLDERING)                          | P<br>N<br>T<br>K | 200 / 4 sec<br>200 / 4 sec<br>240 / 4 sec<br>240 / 4 sec<br>240 / 4 sec  | 200 / 4 sec<br>200 / 4 sec<br>240 / 4 sec<br>240 / 4 sec                       |  | 200 / 4 sec<br>200 / 4 sec<br>240 / 4 sec<br>240 / 4 sec<br>240 / 4 sec | 200 / 4 sec<br>200 / 4 sec<br>240 / 4 sec<br>240 / 4 sec<br>240 / 4 sec | 250 / 4 sec<br>250 / 4 sec<br>260 / 5 sec<br>260 / 5 sec | 250 / 4 sec<br>260 / 5 sec | 250 / 4 sec<br>260 / 5 sec | 250 / 4 sec<br>250 / 4 sec<br>260 / 5 sec<br>260 / 5 sec |
| OPERATING TEMPERATURE (C*)  | P<br>N<br>T<br>K | -40 to 105<br>-40 to 125<br>-40 to 150<br>-40 to 150   | 40 to 125 (For all Conductor Pitches)<br>40 to 150 (For all Conductor Pitches) |  |   |   |  |                            |                            |  |
| MINIMUM BEND RADIUS   | P<br>N<br>T<br>K | 3.18mm(For all Conductor Pitches)3.18mm(For all Conductor Pitches)3.18mm(For all Conductor Pitches)3.18mm(For all Conductor Pitches) |  |  |   |   |  |                            |                            |  |
| UL STYLE NUMBER   | P<br>N<br>T<br>K | 2639<br>5456<br>2928<br>2927   | (For all C<br>(For all C   | Conductor Pitch<br>Conductor Pitch<br>Conductor Pitch<br>Conductor Pitch | nes .100 and<br>nes .100 and  | above)<br>above)  |  |                            |                            |  |

| ABR. | MATERIAL    | SPECIFICATION |
|------|-------------|---------------|
|      | COPPER WIRE | 100-1577      |
| Ρ    | POLYESTER   | 100-1575      |
| Ν    | NOMEX®      | 100-1758      |
| Т    | TEFLON®     | 100-1574      |
| K    | KAPTON®     | 100-1576      |
|      |             |               |

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| I |                            |  | DWN 28FEB01                            |           |       |                         |         |            |
|---|----------------------------|--|--|-----------|-------|-------------------------|---------|------------|
|   |                            | ONTROLLED DOCUMENT.                                    | J. SCHWARTZ<br>Снк 28FEB01<br>E. FOX   |           |       | TE Connectivi           | ty      |            |
|   | DIMENSIONS:<br>MM [INCHES] | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br>0 PLC ± - | APVD 28FEB01<br>E. FOX<br>PRODUCT SPEC |           | EXSTR | RIP PIN CONFIGURATIONS, | GENERIC | 2          |
|   | $\bigoplus \square$        | 1 PLC ± -<br>2 PLC ± -<br>3 PLC ± -<br>4 PLC ± -       |  | SIZE CAGE |       |                         | RES     | TRICTED TO |
|   | MATERIAL                   | ANGLES $\pm 1/2^{\circ}$                               |  |           |       | <b>Ç-</b> 1474339       |         |            |
|   | _                          | _  | CUSTOMER DRAWING                       |           |       | SCALE N.T.S. SHEET      | 1 OF 4  | REV<br>H 1 |

1470-19 (3/11)

| REVISIONS   |      |     |      |   |
|-------------|------|-----|------|---|
|             |      |     |      |   |
| DESCRIPTION | DATE | DWN | APVD |   |
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