

4

3

2

1

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

ALL RIGHTS RESERVED.

GP00

LOC

DIST

REVISIONS

P

LTR

DESCRIPTION

DATE

DWN

APVD

H1

ECR-11-025464

16DEC11

RK

BVH

NOTES:

1

PITCH TOLERANCE TO BE ±.18[.007] FOR 1.27[.050] PITCH JUMPERS & ±.25[.010] FOR ALL REMAINING PITCHES. TOLERANCE TO BE NON CUMULATIVE OVER GAUGE LENGTH.

2

11.92-152.40[.500-6.000] ARE STANDARD LENGTHS. JUMPERS ARE AVAILABLE IN INCREMENTS OF 2.50[.10] PLUS 6.35[.25] AND 19.05[.75].

3

DELETED

4

FOR CONDUCTOR PITCH 7 (2mm), ON PAGE 2 & 3, DIMENSION "B" IS 2.00[.079]

5

SPECIAL PIN LENGTHS ARE AVAILABLE FOR JUMPERS WITH A PIN CONFIGURATION OF "A" OR "B" ON LENGTHS OF UP TO 609.6[24.0] IN 2.54[.100] & 5.08[.200] PITCH VARIANTS ONLY BY ADDING THE FOLLOWING SUFFIXES:

| SUFFIX | PEN LENGTH  | TOLERANCE        |
|--------|-------------|------------------|
| V1     | 2.85 (.112) | ±.305<br>[±.012] |
| V2     | 3.40 (.134) |                  |
| V3     | 4.10 (.161) |                  |
| V4     | 6.50 (.256) |                  |
| V5     | 3.10 (.122) |                  |
| V6     | 2.81 (.150) |                  |
| V7     | 4.50 (.177) |                  |
| V8     | 2.00 (.079) |                  |
| V9     | TBD         |                  |
| V10    | .76 (.030)  |                  |
| V11    | 2.41 (.095) |                  |

"C"

DIMENSION FROM THE EDGE OF INSULATION MATERIAL TO EDGE OF THE FIRST COND. EXCEPT "M" STYLE.

6. RECOMMENDED PCB HOLE DRILLING DETAILS ARE AS FOLLOWS:-

| PITCH A     | ØG         |
|-------------|------------|
| 1.27 (.050) | .70 (.028) |
| 1.90 (.075) | .80 (.031) |
| 2.54 (.100) | .95 (.037) |
| 3.18 (.125) | .95 (.037) |
| 3.81 (.150) | .95 (.037) |
| 5.08 (.200) | .95 (.037) |

PITCH A

ØG ±.03(.001)

7

BEND RADIUS TO APPLY ONLY IN THE FLAT SECTION OF JUMPER BETWEEN THE CONDUCTOR TRANSITION AREAS.

8

PER 108-2135.

9.

TOOL MARKS PERMISSIBLE ON BENDS. NO EXPOSED COPPER.

10

PIN DIAMETER SPECIFIED NOT APPLICABLE IN BENDING AREA OF PIN, DUE TO NORMAL DEFORMATION OF BENDING PROCESS.

11

REFER TO RELEVANT MATERIAL SPECIFICATIONS.

F - MID POINT THICKNESS BETWEEN PT 1 & PT 2

|           | MINIMUM     | MAXIMUM     |
|-----------|-------------|-------------|
| NOMEX®    | .152 [.006] | .305 [.012] |
| POLYESTER | .152 [.006] | .305 [.012] |
| KAPTON®   | .102 [.004] | .254 [.010] |
| TEFLON®   | .305 [.012] | .533 [.021] |

12. PRODUCT AND PROCESSING MUST MEET REQUIREMENTS OF TE CONNECTIVITY STANDARD 230-702.

Nomex®, Teflon® and Kapton® are trademarks of E. I. DuPont de Nemours.

1

2

①

②

F

(MID-PIN THICKNESS)  
SEE CHART

D

(MAX THICKNESS)

E

(PIN DIAMETER)

C

(MARGIN)

T

X

Y

(CONDUCTOR WIDTH)

JUMPER WIDTH

Z

(2 PLC)

V

(MAX ADHESIVE FLOW)  
NOT INCLUDED IN DIM B

JUMPER LENGTH

R ±1.524(.060)

( 1° MAX DRAW ANGLE)

NO NICKS ON INSULATION

NO TRANSITION OUTSIDE INSULATION AREA

| JUMPER LENGTH                                                                       | PITCH (NOMINAL) | TRANSITION MAX | MAX/MIN MARGIN            | PIN DIAMETER                | WIRE GAUGE (AWG) | MIN/MAX No OF CONDUCTORS | MAXIMUM ADHESIVE FLOW | MIN GAP BETWEEN CONDUCTORS | CONDUCTOR WIDTH         | MAXIMUM INSULATION MISMATCH | MAX THICKNESS |
|-------------------------------------------------------------------------------------|-----------------|----------------|---------------------------|-----------------------------|------------------|--------------------------|-----------------------|----------------------------|-------------------------|-----------------------------|---------------|
| R 2                                                                                 | A 1             | T              | C                         | E                           | -                | -                        | V                     | X                          | Y                       | Z                           | D             |
| 11.93 (.50) TO 863.6 (30.00) IN STEPS OF 2.50 (.10) PLUS 6.35 (.25) AND 19.05 (.75) | 1.00 (0.039)    | 4.32 [.170]    | 0.35 (.014) 0.17 (.007)   | 0.330 (.0130) 0.317 (.0125) | 28               | 2-70                     | 0.38 (0.015)          | 0.13 (0.009)               | 0.76 (.030) 0.56 (.022) | .76 (.030)                  | .64           |
|                                                                                     | 1.25 (0.049)    | 4.32 [.170]    | 0.50 (0.020) 0.17 (0.007) | 0.330 (.0130) 0.317 (.0125) | 28               | 2-70                     | 0.38 (0.015)          | 0.25 (0.010)               | 0.89 (.035) 0.64 (.025) | .76 (.030)                  | .64           |
|                                                                                     | 1.27 (0.050)    | 4.32 [.170]    | 0.50 (0.020) 0.17 (0.007) | 0.330 (.0130) 0.317 (.0125) | 28               | 2-70                     | 0.38 (0.015)          | 0.25 (0.010)               | 0.89 (.035) 0.64 (.025) | .76 (.030)                  | .64           |
|                                                                                     | 2.00 (0.079)    | 5.08 [.200]    | 0.70 (0.028) 0.25 (0.010) | 0.416 (.0164) 0.400 (.0157) | 26               | 2-50                     | 0.38 (0.015)          | 0.38 (0.015)               | 1.14 (.045) 0.89 (.035) | .76 (.030)                  | .84           |
|                                                                                     | 1.90 (0.075)    | 5.08 [.200]    | 0.70 (0.028) 0.25 (0.010) | 0.416 (.0164) 0.400 (.0157) | 26               | 2-50                     | 0.38 (0.015)          | 0.38 (0.015)               | 1.14 (.045) 0.89 (.035) | .76 (.030)                  | .84           |
|                                                                                     | 2.54 (0.100)    | 6.35 [.250]    | 0.80 (0.031) 0.25 (0.010) | 0.526 (.0207) 0.505 (.0199) | 24               | 2-50                     | 0.51 (0.020)          | 0.51 (0.020)               | 1.52 (.060) 1.27 (.050) | .76 (.030)                  | .84           |
|                                                                                     | 3.18 (0.125)    | 6.35 [.250]    | 1.00 (0.039) 0.25 (0.010) | 0.526 (.0207) 0.505 (.0199) | 24               | 2-25                     | 0.51 (0.020)          | 0.51 (0.020)               | 1.52 (.060) 1.27 (.050) | .76 (.030)                  | .84           |
|                                                                                     | 3.81 (0.150)    | 6.35 [.250]    | 1.00 (0.039) 0.25 (0.010) | 0.526 (.0207) 0.505 (.0199) | 24               | 2-20                     | 0.51 (0.020)          | 0.51 (0.020)               | 1.52 (.060) 1.27 (.050) | .76 (.030)                  | .84           |
|                                                                                     | 5.08 (0.200)    | 6.35 [.250]    | 1.00 (0.039) 0.25 (0.010) | 0.526 (.0207) 0.505 (.0199) | 24               | 2-15                     | 0.51 (0.020)          | 0.51 (0.020)               | 1.52 (.060) 1.27 (.050) | .76 (.030)                  | .84           |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
MM [INCHES]

0 PLC

1 PLC

2 PLC

3 PLC

4 PLC

ANGLES

± -

± -

± -

± -

± -

± 1/2°

DWN

J. SCHWARTZ

28FEB01

CHK

E. FOX

28FEB01

APVD

E. FOX

28FEB01

PRODUCT SPEC

-

APPLICATION SPEC

-

WEIGHT

-

TE Connectivity

FLEXSTRIP PIN CONFIGURATIONS, GENERIC

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A3

00779

C-1474339

-

CUSTOMER DRAWING

SCALE N.T.S.

SHEET 1 OF 4

REV H1

1470-19 (3/11)

1470-19 (3/11)

4

3

2

1

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

© COPYRIGHT — By —

ALL RIGHTS RESERVED.

LOC  
GP

DIST  
00

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | —   | SEE SHEET 1 | —    | —   | —    |

E BEND  
RIGHT ANGLED  
PIN UPS

F BEND  
RIGHT ANGLED  
STAGGERED PINS UP

G BEND  
RIGHT ANGLED  
STAGGERED PINS DOWN

H BEND  
RIGHT ANGLED  
STAGGERED PINS UP

J BEND  
STRAIGHT/STAGGERED  
PINS DOWN

K BEND  
STRAIGHT/STAGGERED  
PINS UP

L BEND  
STRAIGHT/STAGGERED  
PINS DOWN

Z BEND  
DIMENSIONS  
24 AWG: .034 ±.004  
26 AWG: .028 ±.004  
28 AWG: .022 ±.004

SPECIAL FLEXSTRIP BENDS  
SPECIAL FLEXSTRIP BENDS  
E THRU R, AND Z MAY APPLY TO EITHER  
LEFT OF RIGHT SIDE

SPECIAL JUMPERS  
SMART DESCRIPTION  
FS N — 1 3.25 A G — 20 V1

INSULATION MATERIAL:  
N — NOMEX®  
P — POLYESTER  
T — TEFLON®  
K — KAPTON®

CONDUCTOR PITCH:  
1 — 1.27(.050)  
2 — 2.54(.100)  
3 — 3.18(.125)  
4 — 3.81(.150)  
5 — 5.08(.200)  
6 — 1.90(.075)  
7 — 2.00(.078)  
8 — 1.25(.049)  
9 — 1.00(.039)

SPECIAL PIN LENGTH  
V1 — 2.84(.112)  
V2 — 3.40(.134)  
V3 — 4.09(.161)  
V4 — 6.50(.256)  
V5 — 3.01(.122)  
V6 — 3.81(.150)  
V7 — 4.50(.177)  
V8 — 2.01(.079)  
V9 — TBD  
V10 — .76 (.030)  
V11 — 2.41(.095)

NUMBER OF CONDUCTORS (SEE MAX./MIN. PAGE 1)

PIN ARRANGEMENT (RIGHT)

PIN ARRANGEMENT (LEFT)

INSULATION LENGTH: (in inches)  
.50 MIN. — 30.0 MAX.  
IN .10 INCREMENTS PLUS .25 AND .75 .

E THRU L BEND

"A"  
DIM  
3.18±0.76/(.125±.030)

"B"  
DIM  
2.54±0.25/(.100±.010)

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
MM [INCHES]

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC ± —  
1 PLC ± —  
2 PLC ± —  
3 PLC ± —  
4 PLC ± —  
ANGLES ± 1/2°

MATERIAL

FINISH

DWN  
J. SCHWARTZ  
28FEB01

CHK  
E. FOX  
28FEB01

APVD  
E. FOX  
28FEB01

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

NAME

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A300779

C=1474339

CUSTOMER DRAWING

SCALE

N.T.S.

SHEET

3 OF 4

REV

H1

Nomex®, Teflon® and Kapton® are trademarks of E. I. DuPont de Nemours.

1470-19 (3/11)

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

© COPYRIGHT — By — ALL RIGHTS RESERVED.

LOC

GP

DIST

00

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | —   | 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                                                        | 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                                                        | 8                                                        |
| CHARACTERISTIC IMPEDANCE<br>(GND. SIG. GND)<br>(AVERAGE)                | P<br>N<br>T<br>K | 8                                                                                                                                                                                                        | 8                                                        | 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                                                                                                                                                 | 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 | 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 | 250 / 4 sec<br>250 / 4 sec<br>260 / 5 sec<br>260 / 5 sec | 250 / 4 sec<br>250 / 4 sec<br>260 / 5 sec<br>260 / 5 sec | 250 / 4 sec<br>250 / 4 sec<br>260 / 5 sec<br>260 / 5 sec | 250 / 4 sec<br>250 / 4 sec<br>260 / 5 sec<br>260 / 5 sec |
| OPERATING TEMPERATURE (C°)<br>11                                        | P<br>N<br>T<br>K | -40 to 105 (For all Conductor Pitches)<br>-40 to 125 (For all Conductor Pitches)<br>-40 to 150 (For all Conductor Pitches)<br>-40 to 150 (For all Conductor Pitches)                                     |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |
| MINIMUM BEND RADIUS<br>7                                                | P<br>N<br>T<br>K | 3.18mm (For all Conductor Pitches)<br>3.18mm (For all Conductor Pitches)<br>3.18mm (For all Conductor Pitches)<br>3.18mm (For all Conductor Pitches)                                                     |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |
| UL STYLE NUMBER                                                         | P<br>N<br>T<br>K | 2639 (For all Conductor Pitches .100 and above)<br>5456 (For all Conductor Pitches .100 and above)<br>2928 (For all Conductor Pitches .100 and above)<br>2927 (For all Conductor Pitches .100 and above) |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |                                                          |

| ABR. | MATERIAL    | SPECIFICATION |
|------|-------------|---------------|
|      | COPPER WIRE | 100-1577      |
| P    | POLYESTER   | 100-1575      |
| N    | NOMEX®      | 100-1758      |
| T    | TEFLON®     | 100-1574      |
| K    | KAPTON®     | 100-1576      |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
MM [INCHES]

MATERIAL  
—

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC ± —  
1 PLC ± —  
2 PLC ± —  
3 PLC ± —  
4 PLC ± —  
ANGLES ± 1/2°  
FINISH —

DWN  
J. SCHWARTZ  
28FEB01

CHK  
E. FOX  
28FEB01

APVD  
E. FOX  
28FEB01

PRODUCT SPEC  
—

APPLICATION SPEC  
—

WEIGHT  
—

TE Connectivity

FLEXSTRIP PIN CONFIGURATIONS, GENERIC

—

—

SIZE  
A3

CAGE CODE  
00779

DRAWING NO  
C-1474339

RESTRICTED TO  
—

CUSTOMER DRAWING

SCALE  
N.T.S.

SHEET  
4 OF 4

REV  
H1

Nomex®, Teflon® and Kapton® are trademarks of E. I. DuPont de Nemours.

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

© COPYRIGHT — By — ALL RIGHTS RESERVED.

LOC

GP

DIST

00

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | —   | SEE SHEET 1 | —    | —   | —    |

1470-19 (3/11)