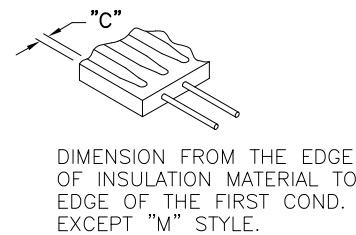


NOTES:

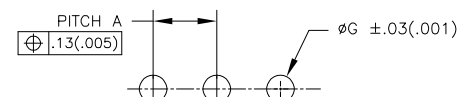
- ① PITCH TOLERANCE TO BE $\pm 0.18[.007]$ FOR 1.27[.050] PITCH JUMPERS
& $\pm 0.25[.010]$ FOR ALL REMAINING PITCHES.
TOLERANCE TO BE NON CUMULATIVE OVER GAUGE LENGTH.
- ② 11.92–152.40[.500–6.000] ARE STANDARD LENGTHS. JUMPERS ARE AVAILABLE
IN INCREMENTS OF 2.50[.10] PLUS 6.35[.25] AND 19.05[.75].
- 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 [±.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)	



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)

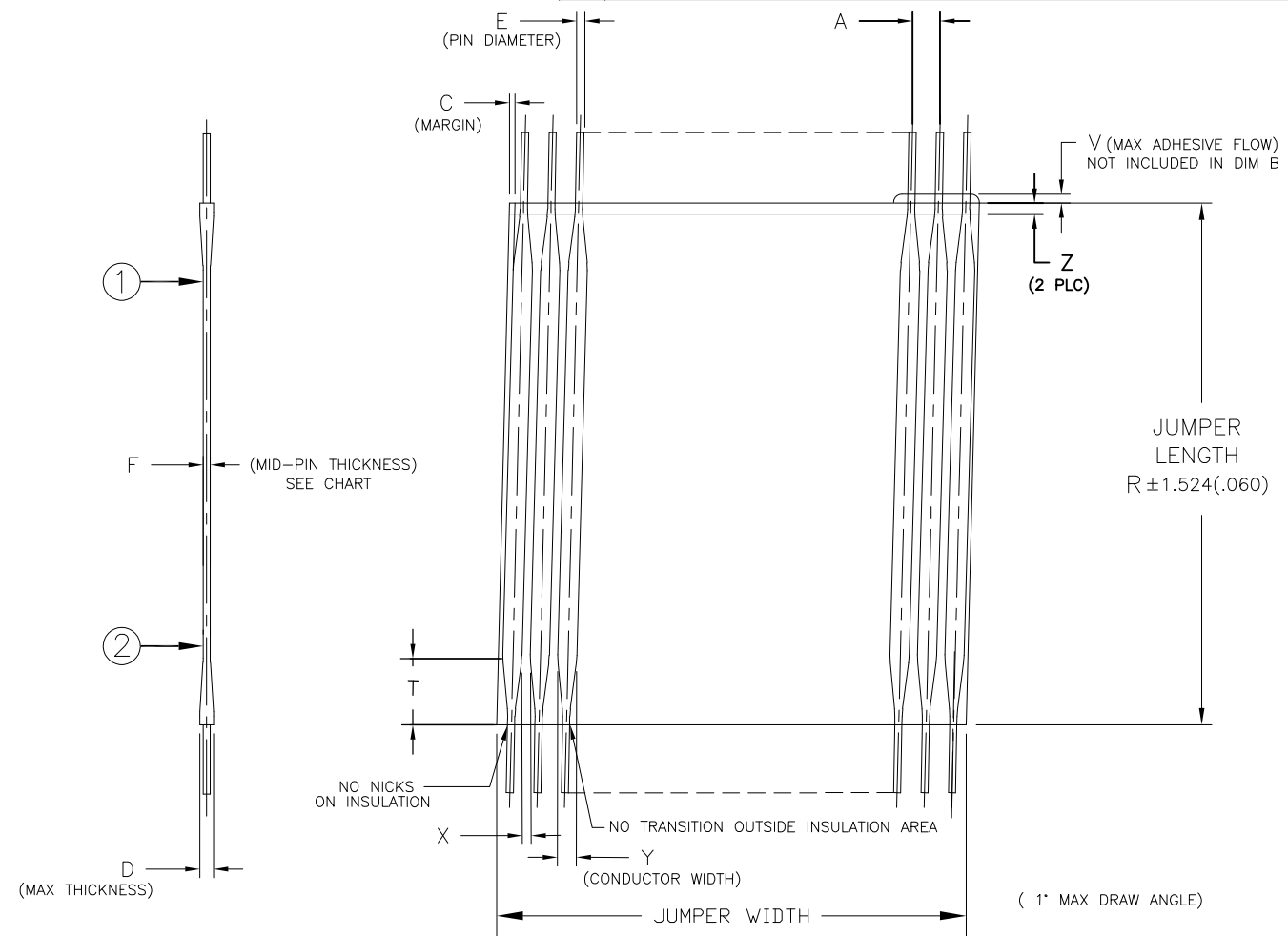


7. BEND RADIUS TO APPLY ONLY IN THE FLAT SECTION OF JUMPER BETWEEN THE CONDUCTOR TRANSITION AREAS.
8. PER 108-2135.
9. TOOL MARKS PERMISSIBLE ON BENDS. NO EXPOSED COPPER.
10. PIN DIAMETER SPECIFIED NOT APPLICABLE IN BENDING AREA OF PIN, DUE TO NORMAL DEFORMATION OF BENDING PROCESS.
11. REFER TO RELEVANT MATERIAL SPECIFICATIONS.

F – MID POINT THICKNESS BETWEEN PT 1 & PT 2	MINIMUM	
	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 THE CONNECTIVITY STANDARD 230-702.

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



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 	A 	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 (0.014) 0.17 (0.007)	0.330 (0.0130) 0.317 (0.0125)	28	2—70	0.38 (0.015)	0.13 (0.009)	0.76 (0.030) 0.56 (0.022)	.76 (.030)	.64
	1.25 (0.049)	4.32 [.170]	0.50 (0.020) 0.17 (0.007)	0.330 (0.0130) 0.317 (0.0125)	28	2—70	0.38 (0.015)	0.25 (0.010)	0.89 (0.035) 0.64 (0.025)	.76 (.030)	.64
	1.27 (0.050)	4.32 [.170]	0.50 (0.020) 0.17 (0.007)	0.330 (0.0130) 0.317 (0.0125)	28	2—70	0.38 (0.015)	0.25 (0.010)	0.89 (0.035) 0.64 (0.025)	.76 (.030)	.64
	2.00 (0.079)	5.08 [.200]	0.70 (0.028) 0.25 (0.010)	0.416 (0.0164) 0.400 (0.0157)	26	2—50	0.38 (0.015)	0.38 (0.015)	1.14 (0.045) 0.89 (0.035)	.76 (.030)	.84
	1.90 (0.075)	5.08 [.200]	0.70 (0.028) 0.25 (0.010)	0.416 (0.0164) 0.400 (0.0157)	26	2—50	0.38 (0.015)	0.38 (0.015)	1.14 (0.045) 0.89 (0.035)	.76 (.030)	.84
	2.54 (0.100)	6.35 [.250]	0.80 (0.031) 0.25 (0.010)	0.526 (0.0207) 0.505 (0.0199)	24	2—50	0.51 (0.020)	0.51 (0.020)	1.52 (0.060) 1.27 (0.050)	.76 (.030)	.84
	3.18 (0.125)	6.35 [.250]	1.00 (0.039) 0.25 (0.010)	0.526 (0.0207) 0.505 (0.0199)	24	2—25	0.51 (0.020)	0.51 (0.020)	1.52 (0.060) 1.27 (0.050)	.76 (.030)	.84
	3.81 (0.150)	6.35 [.250]	1.00 (0.039) 0.25 (0.010)	0.526 (0.0207) 0.505 (0.0199)	24	2—20	0.51 (0.020)	0.51 (0.020)	1.52 (0.060) 1.27 (0.050)	.76 (.030)	.84
	5.08 (0.200)	6.35 [.250]	1.00 (0.039) 0.25 (0.010)	0.526 (0.0207) 0.505 (0.0199)	24	2—15	0.51 (0.020)	0.51 (0.020)	1.52 (0.060) 1.27 (0.050)	.76 (.030)	.84

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DWN	28FEB01
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J. SCHWARTZ	
CHK	28FEB01

CHK	28 FEB 1961
E. FOX	

APVD	28FEB01
E EOV	

E. FOX
PRODUCT SPEC

APPLICATION SPEC

APPLICANT'S SIGNATURE _____

	—
	WEIGHT

WEIGHT	
1	1
2	2
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100	100

CUSTOMER DRAWING

TE TE Connectivity

NAME	
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FLEXSTRIP PIN CONFIGURATIONS, GENERIC
—[illegible]

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
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Λ 7	00370	©	1471330
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A3	00779	G=1474339	—
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SCALE	N.T.S.	SHEET	1 OF 1	REV	H1
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	N.I.S.	94	HI
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THIS DRAWING IS UNPUBLISHED.				RELEASED FOR PUBLICATION																											
© COPYRIGHT - By - ALL RIGHTS RESERVED.				LOC GP		DIST 00																									
				P		LTR																									
				DESCRIPTION		DATE																									
				SEE SHEET 1		DWN																									
						APVD																									
A - STRAIGHT PINS		B - RIGHT ANGLE PINS (BENT DOWN)		C - RIGHT ANGLE STAGGERED PINS (PIN 1 SHORT, BENT DOWN)		D - STRAIGHT ANGLE STAGGERED PINS (PIN 1 STRAIGHT)																									
STANDARD JUMPERS SMART DESCRIPTION				STANDARD LINE JOBS																											
AUTOMOTIVE USE ONLY FLEXSTRIP PRODUCT CODE 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)				MANUFACTURING NOTE: MINIMUM GAP BETWEEN STRIPS <table><tr><td>SK/A/Z</td><td>.75 INCH</td></tr><tr><td>LP</td><td>1.1 INCH</td></tr></table> MINIMUM CONDUCTOR COUNT PER STRIP FOR LINE JOBS <table><tr><th>PITCH</th><th>CONDUCTOR</th></tr><tr><td>1 1.27 (.050)</td><td>60</td></tr><tr><td>2 2.54 (.100)</td><td>60</td></tr><tr><td>3 3.18 (.125)</td><td>60</td></tr><tr><td>4 3.81 (.150)</td><td>50</td></tr><tr><td>5 5.08 (.200)</td><td>40</td></tr><tr><td>6 1.91 (.075)</td><td>60</td></tr><tr><td>7 2.0 (.078)</td><td>60</td></tr><tr><td>8 1.24 (.049)</td><td>60</td></tr><tr><td>9 1.0 (.039)</td><td>80</td></tr></table>				SK/A/Z	.75 INCH	LP	1.1 INCH	PITCH	CONDUCTOR	1 1.27 (.050)	60	2 2.54 (.100)	60	3 3.18 (.125)	60	4 3.81 (.150)	50	5 5.08 (.200)	40	6 1.91 (.075)	60	7 2.0 (.078)	60	8 1.24 (.049)	60	9 1.0 (.039)	80
SK/A/Z	.75 INCH																														
LP	1.1 INCH																														
PITCH	CONDUCTOR																														
1 1.27 (.050)	60																														
2 2.54 (.100)	60																														
3 3.18 (.125)	60																														
4 3.81 (.150)	50																														
5 5.08 (.200)	40																														
6 1.91 (.075)	60																														
7 2.0 (.078)	60																														
8 1.24 (.049)	60																														
9 1.0 (.039)	80																														
FS N 1 - 2 SK (LP) LONG PIN (OPTIONAL) LINE JOB DESIGNATOR (SK, A, Z) INSULATION LENGTH IN INCHES .5 MIN. - 30.0 MAX. IN .100 INCREMENTS, PLUS .25 & .75				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) THE FOLLOWING ORDERING CODE IS A SPECIAL FOR TE CONNECTIVITY GERMANY DESCRIBING A STRIP OF ANY INSULATION MATERIAL, ANY PITCH AND ANY INSULATION LENGTH WITH A 11.00[.433] MIN PIN LENGTH UNLESS OTHERWISE SPECIFIED:- FS X-X X J-A A W																											
Nomex®, Teflon® and Kapton® are trademarks of E. I. DuPont de Nemours.				THIS DRAWING IS A CONTROLLED DOCUMENT.																											
DIMENSIONS: MM [INCHES]		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DWN J. SCHWARTZ 28FEB01		TE Connectivity																									
		0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± - 4 PLC ± - ANGLES ± 1/2°		CHK E. FOX 28FEB01		NAME																									
MATERIAL		FINISH		APVD E. FOX 28FEB01		FLEXSTRIP PIN CONFIGURATIONS, GENERIC																									
				PRODUCT SPEC		SIZE																									
				APPLICATION SPEC		CAGE CODE																									
				WEIGHT		DRAWING NO																									
				CUSTOMER DRAWING		RESTRICTED TO																									
						A3 00779 C-1474339																									
						SCALE																									
						SHEET																									
						REV																									
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LOC

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DIST

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REVISIONS

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

NORMAL CONDUCTOR PITCH		1.00 (.039)	1.25 (.049)	1.27 (.050)	1.90 (.075)	2.00 (.078)	2.54 (.100)	3.18 (.125)	3.81 (.150)	5.08 (.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 PER JUMPER		8	8	8	8	8	8	8	8	8
MIN BREAKDOWN VOLTAGE @ 1 MIN		8	8	8	8	8	8	8	8	8
INSULATION RESISTANCE (GND. SIG. GND) 305 (12') SAMPLE @ 500VDC	P N T K	8	8	8	8	8	8	8	8	8
CAPACITANCE (pf / 50.8 (12') LENGTH) (GND, SIG, GND) (AVERAGE)	P N T K	8	8	8	8	8	8	8	8	8
CHARACTERISTIC IMPEDANCE (GND. SIG. GND) (AVERAGE)	P N T K	8	8	8	8	8	8	8	8	8
APPLICATION TEMP RANGE (C°) (FOR SOLDERING)	P N T K	200 / 4 sec 200 / 4 sec 240 / 4 sec 240 / 4 sec	200 / 4 sec 200 / 4 sec 240 / 4 sec 240 / 4 sec	200 / 4 sec 200 / 4 sec 240 / 4 sec 240 / 4 sec	200 / 4 sec 200 / 4 sec 240 / 4 sec 240 / 4 sec	200 / 4 sec 200 / 4 sec 240 / 4 sec 240 / 4 sec	250 / 4 sec 250 / 4 sec 260 / 5 sec 260 / 5 sec	250 / 4 sec 250 / 4 sec 260 / 5 sec 260 / 5 sec	250 / 4 sec 250 / 4 sec 260 / 5 sec 260 / 5 sec	250 / 4 sec 250 / 4 sec 260 / 5 sec 260 / 5 sec
OPERATING TEMPERATURE (C°) 11	P N T K	-40 to 105 (For all Conductor Pitches) -40 to 125 (For all Conductor Pitches) -40 to 150 (For all Conductor Pitches) -40 to 150 (For all Conductor Pitches)								
MINIMUM BEND RADIUS 7	P N T 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 N T K	2639 (For all Conductor Pitches .100 and above) 5456 (For all Conductor Pitches .100 and above) 2928 (For all Conductor Pitches .100 and above) 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

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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

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1470-19 (3/11)

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