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GP	00

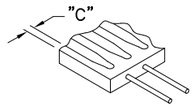
REVISIONS

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:

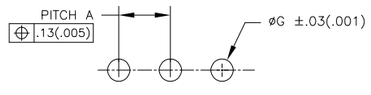
SUFFIX	PEN LENGTH	TOLERANCE
V1	2.85 (.112)	±.305 [±.012]
V2	3.40 (.134)	
V3	4.10 (.161)	
V4	6.50 (.256)	
V5	3.10 (.122)	
V6	2.81 (.150)	
V7	4.50 (.177)	
V8	2.00 (.079)	
V9	TBD	
V10	.76 (.030)	
V11	2.41 (.095)	



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)



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.

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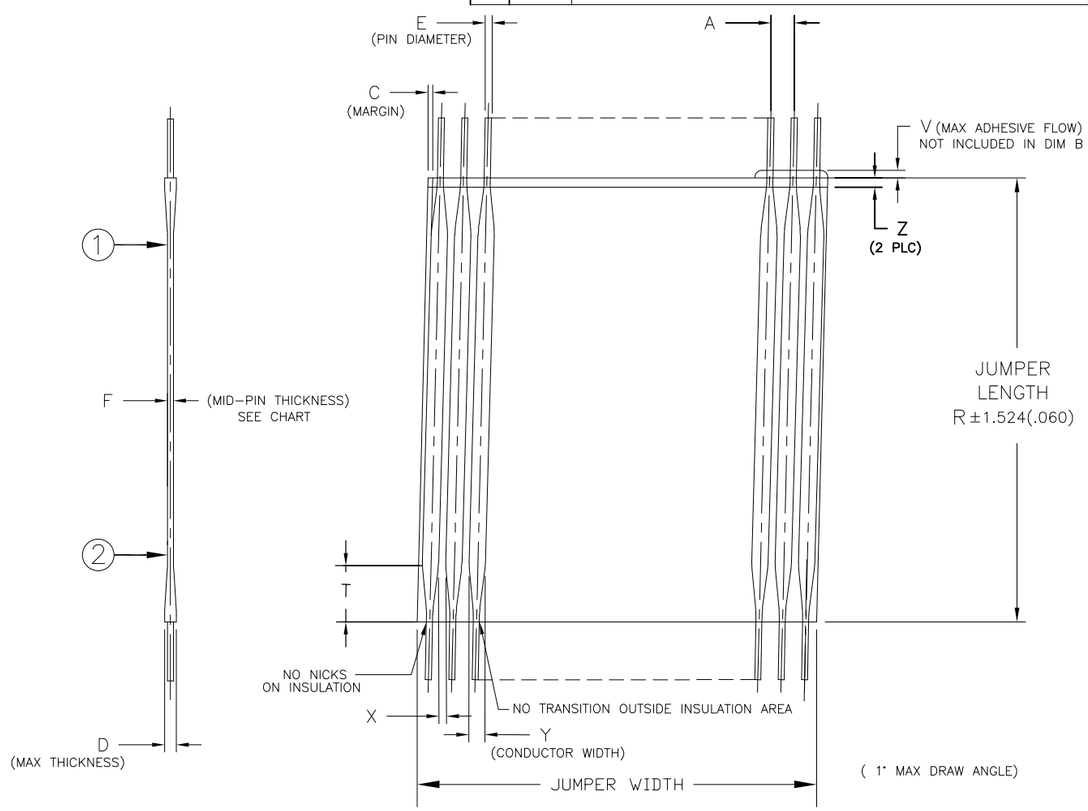

JUMPER LENGTH R 2	PITCH (NOMINAL) A 1	TRANSITION MAX T	MAX/MIN MARGIN C	PIN DIAMETER 10 E	WIRE GUAGE (AWG) –	MIN/MAX No OF CONDUCTORS –	MAXIMUM ADHESIVE FLOW V	MIN GAP BETWEEN CONDUCTORS X	CONDUCTOR WIDTH Y	MAXIMUM INSULATION MISMATCH Z	MAX THICKNESS D
11.93 (.50) TO 863.6 (30.00) IN STEPS OF 2.50 (.10) 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 (0.0130) 0.317 (0.0125)	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 (0.0130) 0.317 (0.0125)	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 (0.0164) 0.400 (0.0157)	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 (0.0164) 0.400 (0.0157)	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 (0.0207) 0.505 (0.0199)	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 (0.0207) 0.505 (0.0199)	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 (0.0207) 0.505 (0.0199)	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 (0.0207) 0.505 (0.0199)	24	2–15	0.51 (0.020)	0.51 (0.020)	1.52 (.060) 1.27 (.050)	.76 (.030)	.84

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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	–	

TE Connectivity

NAME
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

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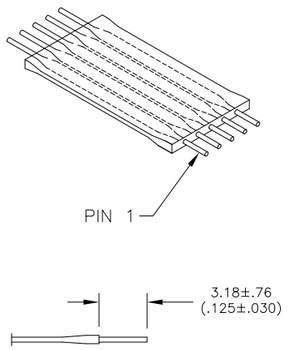
LOC	DIST
GP	00

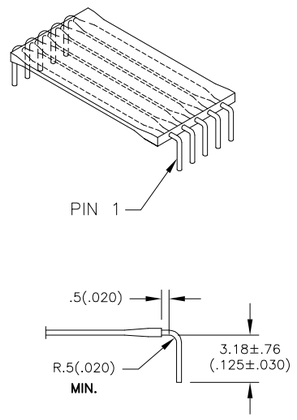
REVISIONS

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

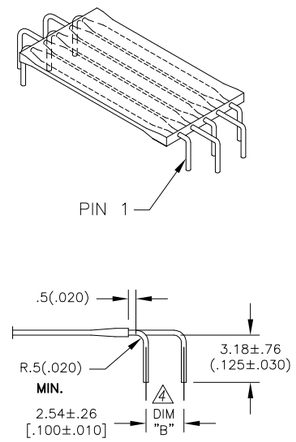
A – STRAIGHT PINS



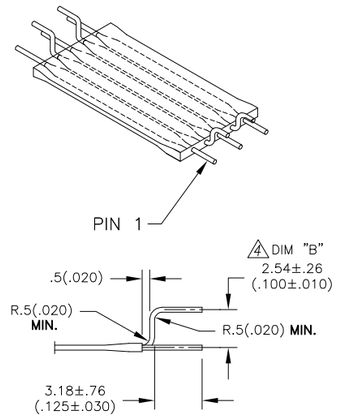
B – RIGHT ANGLE PINS (BENT DOWN)



C – RIGHT ANGLE STAGGERED PINS (PIN 1 SHORT, BENT DOWN)



D – STRAIGHT ANGLE STAGGERED PINS (PIN 1 STRAIGHT)



STANDARD JUMPERS SMART DESCRIPTION

A FS N – 1 2 A – 70

- 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)
- INSULATION LENGTH IN INCHES .50 MIN. –30.0 MAX. IN .100 INCREMENTS PLUS, .25 AND .75
- PIN ARRANGEMENT (FOR BOTH ENDS) A THRU Z
- NUMBER OF CONDUCTORS

MANUFACTURING NOTE:

MINIMUM GAP BETWEEN STRIPS

SK/A/Z	.75 INCH
LP	1.1 INCH

MINIMUM CONDUCTOR COUNT PER STRIP FOR LINE JOBS

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

STANDARD LINE JOBS

FS N 1 – 2 SK (LP)

- FLEX STRIP
- 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)
- INSULATION LENGTH IN INCHES .5 MIN. – 30.0 MAX. IN .100 INCREMENTS, PLUS .25 & .75
- LINE JOB DESIGNATOR (SK, A, Z)
- LONG PIN (OPTIONAL)

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

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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	–	

TE Connectivity

NAME: FLEXSTRIP PIN CONFIGURATIONS, GENERIC – –

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-1474339	–

CUSTOMER DRAWING | SCALE N.T.S. | SHEET 2 OF 4 | REV H1

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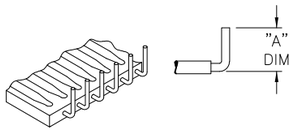
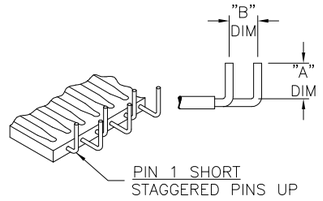
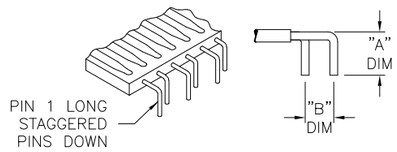
P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	—	—



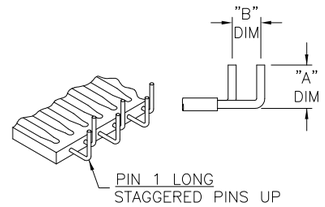
E BEND
RIGHT ANGLED
PIN UPS



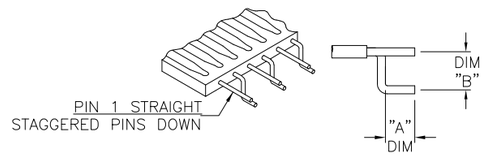
F BEND
RIGHT ANGLED
STAGGERED PINS UP



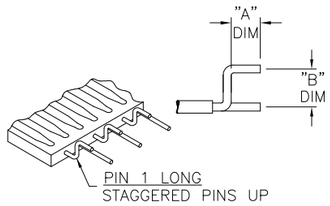
G BEND
RIGHT ANGLED
STAGGERED PINS DOWN



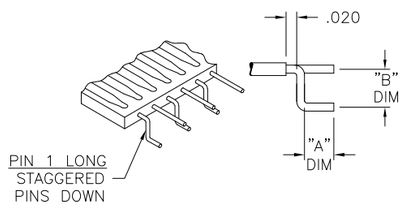
H BEND
RIGHT ANGLED
STAGGERED PINS UP



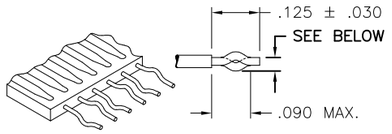
J BEND
STRAIGHT/STAGGERED
PINS DOWN



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 (SEE NOTE 5)

- FS — FLEXSTRIP PRODUCT CODE
- N — INSULATION MATERIAL: N – NOMEX® P – POLYESTER T – TEFLON® K – KAPTON®
- 1 — 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)
- 3.25 — INSULATION LENGTH: (in inches) .50 MIN. – 30.0 MAX. IN .10 INCREMENTS PLUS .25 AND .75 .
- A — PIN ARRANGEMENT (LEFT)
- G — PIN ARRANGEMENT (RIGHT)
- 20 — NUMBER OF CONDUCTORS (SEE MAX./MIN. PAGE 1)
- V1 — 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)

CONDUCTOR PITCH	BENDS AVAILABLE
1 – 1.27/(.050)	E,F,G,H,J,K,L
2 – 2.54/(.100)	E,F,G,H,J,K,L
3 – 3.18/(.125)	E
4 – 3.81/(.150)	E
5 – 5.08/(.200)	E
6 – 1.91/(.075)	E,F,G,H,J,K,L
7 – 2.00/(.0787)	E,F,G,H,J,K,L
8 – 1.25/(.049)	E
9 – 1.00/(.039)	E

E THRU L BEND ④
"A" DIM
3.18±0.76/(.125±.030)
"B" DIM
2.54±0.25/(.100±.010)

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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	–	

TE Connectivity

NAME
FLEXSTRIP PIN CONFIGURATIONS, GENERIC
–
–

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-1474339	—

CUSTOMER DRAWING

SCALE	SHEET	REV
N.T.S.	3 OF 4	H1

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LOC	DIST
GP	00

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]

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 –

CUSTOMER DRAWING

TE Connectivity

NAME
FLEXSTRIP PIN CONFIGURATIONS, GENERIC
–
–

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-1474339	—

SCALE	SHEET	REV
N.T.S.	4 OF 4	H1

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TE Connectivity:

FSP-14A-3 FSP-12A-2 FSP-12A-6 FST-12A-7 FST-12A-6 FST-12A-9 FST-12A-5 FSP-12A-9 FSP-12A-8 FST-12A-8 FSP-12A-7 FSP-12A-3 FSP-12A-5 FST-12A-3 FST-12A-2 FST-12A-4 FSP-12A-4 FSN-25.5B-9 FSN-22.5A-11 FSP-14A-7 FST-14A-7 FST-14A-3 FSP-14A-5 FSP-14A-9 FST-14A-9 FST-14A-5 FST-14A-4 FST-14A-6 FST-14A-2 FSP-14A-4 FST-14A-8 FSP-14A-8 FSP-14A-6 FSN-2.5A-7 FST-22A-10 FST-22A-11 FST-22A-13 FST-22A-14 FST-22A-18 FSP-22A-15 FST-22A-15 FSP-22A-16 FSP-22A-10 FST-22A-12 FSN-22A-16 FST-22A-16 FSP-22A-14 FST-22A-17 FSP-22A-19 FST-22A-19 FSP-22A-18 FST-11A-20 FSN-11A-20 FSP-11A-20 FSN-26B-10 FSP-26B-10 FSN-21A-8 FSN-21A-2 FSN-21A-9 FSN-21A-6 FSN-21A-5 FSN-21A-7 FSN-21A-3 FSN-24A-5 FSN-24A-9 FSN-24A-4 FSN-24A-8 FSN-24A-7 FSN-24A-3 FSN-24A-2 FSN-24A-6 FSP-56A-10 FSP-210B-9 FSN-56A-10 FSP-14A-16 FSP-14A-12 FST-14A-15 FSP-14A-20 FSN-14A-19 FSP-14A-11 FSP-14A-10 FSP-14A-18 FST-14A-10 FSN-14A-10 FST-14A-14 FSN-14A-14 FST-14A-20 FSN-14A-13 FST-14A-13 FST-14A-17 FSP-14A-19 FSP-14A-15 FSN-14A-18 FST-14A-18 FSP-14A-13 FSP-14A-17 FST-14A-11 FST-14A-19 FSN-14A-11 FST-14A-12