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REVISIONS

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DESCRIPTION

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REVISED PER ECO-11-005033

22MAR11

RK

HMR

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)	

"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

Ø.13(.005)

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.

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									—	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

ORDERING CODE/CATALOGUE NUMBER

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)

FS N — 1 2 A — 70

PIN ARRANGEMENT (FOR BOTH ENDS)
A THRU Z

INSULATION LENGTH IN INCHES
.50 MIN. — 30.0 MAX.
IN .100 INCREMENTS PLUS,
.25 AND .75

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

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)

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

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

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 —

CUSTOMER DRAWING

TE Connectivity

NAME FLEXSTRIP PIN CONFIGURATIONS, GENERIC

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

SCALE N.T.S. SHEET 2 OF 4 REV G1

1470-19 (3/11)

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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)	7.62 (.300)
WIRE GAUGE		AWG 28	AWG 28	AWG 28	AWG 26	AWG 26	AWG 24	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)	.51(.0201)
CURRENT RATING		1.0A	1.6A	1.6A	2.0A	2.0A	3.0A	3.5A	3.5A	4.0A	4.0A
VOLTAGE RATING		200VAC	200VAC	200VAC	200VAC	200VAC	300VAC	300VAC	300VAC	300VAC	300VAC
MAX NUMBER OF CONDUCTORS PER JUMPER		70	70	70	50	50	48	30	25	20	13
MIN BREAKDOWN VOLTAGE @ 1 MIN		1025VAC	1050VAC	1050VAC	1250VAC	1250VAC	1500VAC	1500VAC	1500VAC	1500VAC	1500VAC
INSULATION RESISTANCE (GND. SIG. GND) 305 (12") SAMPLE @ 500VDC	P N T K	△ 8	△ 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	△ 8
CHARACTERISTIC IMPEDANCE (GND. SIG. GND) (AVERAGE)	P N T K	△ 8	△ 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	250 / 4 sec 250 / 4 sec 260 / 5 sec 260 / 5 sec
OPERATING TEMPERATURE (C°)	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) △ 11									
MINIMUM BEND RADIUS	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) △ 7									
UL STYLE NUMBER	P N T K	2639 (For all Conductor Pitches .100 and above) 5188 (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

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

NAME
FLEXSTRIP PIN CONFIGURATIONS, GENERIC

SIZE
A3

CAGE CODE
00779

DRAWING NO
C=1474339

RESTRICTED TO
—

CUSTOMER DRAWING

SCALE
N.T.S.

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4 OF 4

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1470–19 (3/11)

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No Image Available

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- [Contact Us About This Product](#)

FSP-21A-22
(4-1437165-5)

TE Internal Number: 4-1437165-5

**Obsolete**[Contact Product Information
Center](#)[Add to My Part List](#)[Buy Product](#)**Documentation & Additional Information****Product Drawings:**

- [FLEXSTRIP PIN CONFIGURATIONS, GENERIC](#) (PDF, English)

Catalog Pages/Data Sheets:

- None Available

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files:

- None Available

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