Nomex® Insulation

- An opaque aramid laminate that has excellent temperature capability
- Can be installed by conventional soldering techniques
- Compatible with surface mount reflow soldering processes
- Suitable for most applications
- Resistant to damage from contact with a hot soldering iron
- UL Style Number 5295

Teflon® Insulation

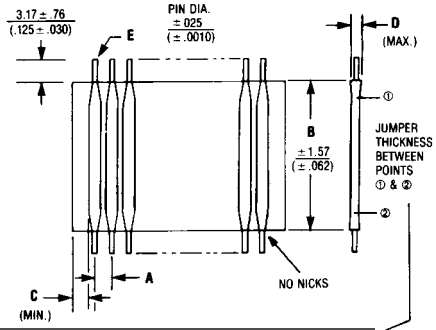
- A translucent film that has exceptional electrical and chemical properties
- Can be installed by most commonly used soldering techniques
- Resistant to damage by contact with a hot soldering iron
- Recommended for high abrasion resistance applications
- Most commonly used for high electrical and mechanical performance applications
- UL Style Number 2928

Polyester Insulation

- A lower temperature rated film that has excellent mechanical and electrical properties
- Recommended for high humidity applications
- Recommended for use where controlled soldering methods can be used
- Not recommended for surface mount reflow solder applications
- UL Style Number 2639

Kapton® Insulation

- A distinctive amber film that is useful for all normal soldering methods
- Dimensionally stable over a wide temperature and humidity range
- Not damaged by accidental contact with a hot soldering iron
- Used in the most exacting applications
- UL Style Number 2927



MID-PIN JUMPER THICKNESS (.050), (.075), (.100), (.125), (.150), & (.200) PITCH	
.254 (.010)	Nomex
.254 (.010)	Kapton
.406 (.016)	Teflon
.254 (.010)	Polyester

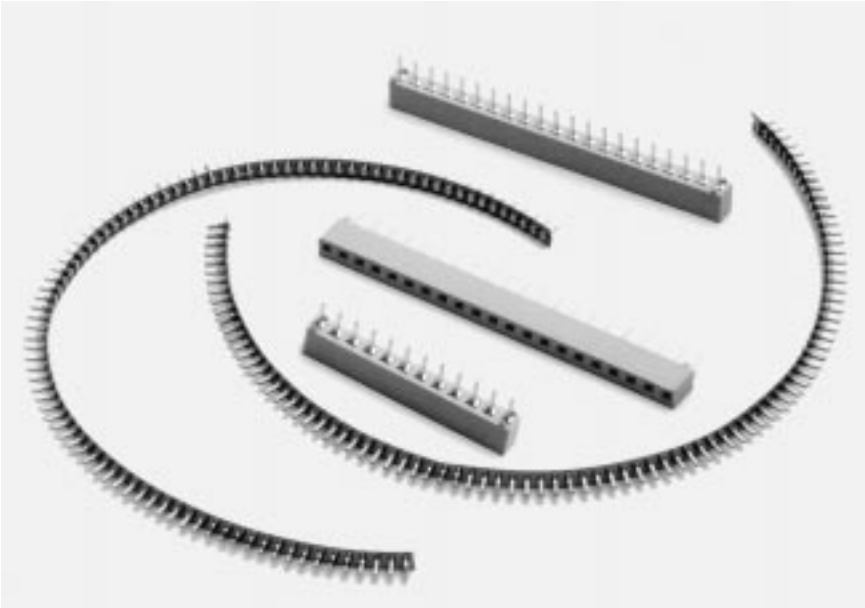
INSULATION MATERIAL	POLYESTER	NOMEX®	TEFLON®	KAPTON®
Conductor Pitch	.100"	.100"	.100"	.100"
Equivalent Conductor Size (American Wire Gauge)	24	24	24	24
Insulation Resistance (gnd, sig, gnd) 12 inch sample @ 500 VDC	1 x $10^{12}\Omega$	2 x $10^{12}\Omega$	2 x $10^{12}\Omega$	2 x $10^{12}\Omega$
Capacitance (picofarad/foot) (gnd, sig, gnd)	10.2 pF/ft	8.9 pF/ft	10.5 pF/ft	9.1 pF/ft
Characteristic Impedance Ω (gnd, sig, gnd)	118Ω	123Ω	101Ω	112Ω
Temperature Rating	105° C	125° C	150° C	150° C
Current Rating	3 amps	3 amps	3 amps	3 amps
Voltage Rating	300 volts	300 volts	300 volts	300 volts
Min. Breakdown Voltage @ 1 min	1500 volts	1500 volts	1500 volts	1500 volts
Min. Bend Radius	1/8"	1/8"	1/8"	1/8"

No Ozone Depleting Substances Are Used in the Production Processes for Flexstrip® Jumpers.

PITCH A	MARGIN C	THICKNESS WIRE GAUGE	(PIN END) D	PIN DIA. E	FOR PCB WITH THE FOLLOWING DIAMETER (±.001) HOLES AND (±.005) CENTER TOLERANCE	NUMBER OF CONDUCTORS RECOMMENDED (MIN. – MAX.)
1.00 (.039)	.25 (.010)	28	.64 (.025)	.320 (.0126)	—	2—30
1.25 (.049)	.25 (.010)	28	.64 (.025)	.320 (.0126)	.71 (.028)	2—30
1.27 (.050)	.25 (.010)	28	.64 (.025)	.320 (.0126)	.71 (.028)	2—30
1.90 (.075)	.25 (.010)	26	.84 (.033)	.404 (.0159)	.79 (.031)	2—40
2.00 (.079)	.25 (.010)	26	.84 (.033)	.404 (.0159)	.79 (.031)	2—40
2.54 (.100)	.25 (.010)	24	.84 (.033)	.511 (.0201)	.94 (.037)	2—30
3.18 (.125)	.51 (.020)	24	.84 (.033)	.511 (.0201)	.94 (.037)	2—25
3.81 (.150)	.51 (.020)	24	.84 (.033)	.511 (.0201)	.94 (.037)	2—20
5.08 (.200)	.51 (.020)	24	.84 (.033)	.511 (.0201)	.94 (.037)	2—15

Tolerance on pitch: ± .25mm (±.010), non-cumulative

FLEXSTRIP® SOCKETS



Description/Application

FLEXSTRIP® socket contacts provide a reliable, system for FLEXSTRIP® Jumper quick disconnect applications.

Design Advantages

Low Profile Sockets

- Low-profile - only 0.8 mm (.030") above PC board.
- Positive retention prior to soldering.
- Contact area sealed with protective membrane to prevent contamination.
- No special tooling necessary.
- Sockets on 2.54 mm (.100") centers.
- Gold-plated beryllium copper contacts inside a tinned copper cup for maximum insertion/withdrawal cycles.
- Suitable for 1.33 mm (.050") to 1.5 mm (.058") PCB hole diameters.
- Easily inserted by hand.

Molded Sockets

- Available in 4–30 position .100" centers and 4–21 position 2mm (.079") center spacing.
- Dual beam socket contact.
- Superior insertion/extraction performance.
- Withstands adverse environmental conditions such as shock, vibration and corrosion.
- Corner identification of position #1 on connector housing simplifies board assembly.

FLEXSTRIP® INDEX

.100" PITCH LOW PROFILE FLEXSTRIP® SOCKET CONTACTS THRU HOLE SOLDERED

LR49571 E60980

Physical Properties

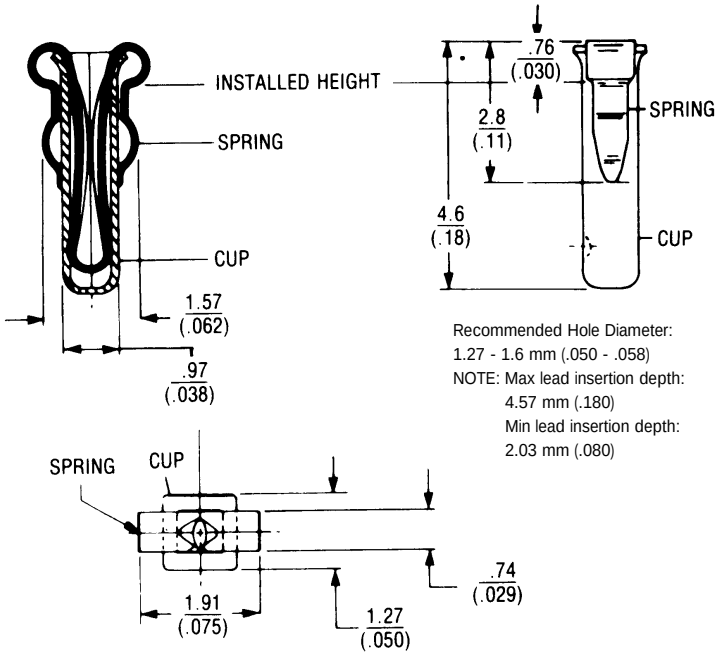
Cup: Copper alloy
Cup Plating: Tin plate overall
Spring Material: High performance copper alloy
Spring Plating: Gold, 30 microinches over nickel, 40 microinches (QQ-N-290)

Electrical Properties

Current Rating: 2.5 amps

Environmental Properties

Temperature Rating: - 40°C TO 105°C

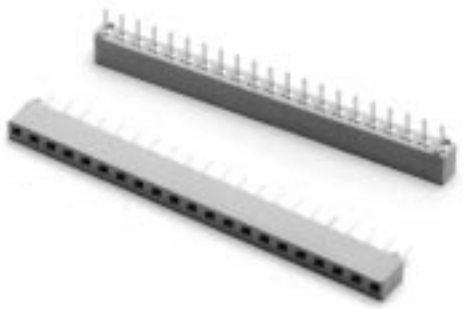


Recommended Hole Diameter:
1.27 - 1.6 mm (.050 - .058)
NOTE: Max lead insertion depth:
4.57 mm (.180)
Min lead insertion depth:
2.03 mm (.080)

CAT NO.	DESCRIPTION
741	Carrier Strip of 100 Contacts

2.54 MM (.100") FLEXSTRIP® SINGLE ROW SOCKETS 4-24 POSITIONS

LR49571 E60980



Physical Properties

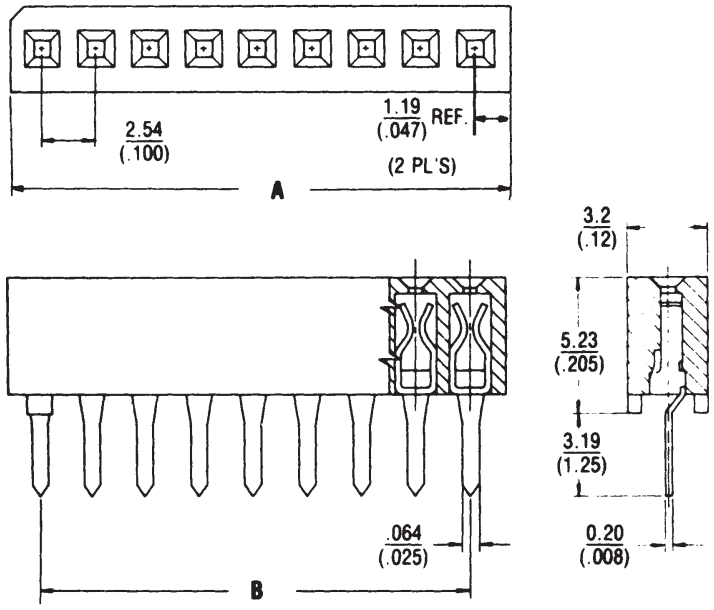
Insulation Material: Glass reinforced thermoplastic, rated UL 94V-0
Color: Blue
Oxygen Index: 32
Contact Material: Copper alloy, tin plating over nickel

Electrical Properties

Current Rating: 1 Amp/Pin
Insulation Resistance: >1 x 10^9 Ohms
Dielectric Strength: >650 VAC

Environmental Properties

Temperature Rating: -40˚C to 100˚C



Recommended PCB hole diameter: .038" ± .005

Ordering Information

CATALOG NUMBER	NO. OF POSITIONS	A	B
744-4	4	10.2 (.402)	7.62 (.300)
744-5	5	12.56 (.494)	10.16 (.400)
744-6	6	15.10 (.594)	12.70 (.500)
744-7	7	17.64 (.694)	15.24 (.600)
744-8	8	20.18 (.794)	17.78 (.700)
744-10	10	25.26 (.994)	22.86 (.900)
744-11	11	27.80 (1.094)	25.40 (1.000)
744-12	12	30.34 (1.194)	27.94 (1.100)
744-13	13	32.88 (1.294)	30.48 (1.200)
744-14	14	35.42 (1.394)	33.02 (1.300)
744-15	15	37.96 (1.494)	35.56 (1.400)
744-16	16	40.50 (1.594)	38.10 (1.500)
744-17	17	43.04 (1.694)	40.64 (1.600)
744-18	18	45.58 (1.794)	43.18 (1.700)
744-20	20	50.66 (1.994)	48.26 (1.900)
744-21	21	53.20 (2.094)	50.80 (2.000)
744-22	22	55.73 (2.194)	53.34 (2.100)
744-23	23	58.27 (2.294)	55.88 (2.200)
744-24	24	60.81 (2.394)	58.42 (2.300)
744-25	25	63.35 (2.494)	60.96 (2.400)
744-26	26	65.89 (2.594)	63.50 (2.500)
744-27	27	68.43 (2.694)	66.04 (2.600)
744-28	28	70.97 (2.794)	68.58 (2.700)
744-29	29	73.51 (2.894)	71.12 (2.800)
744-30	30	76.05 (2.994)	73.66 (2.900)