

Fenix Imvico SA: DCA-0751-AQ-2001



FENIX group
Quality & Service

Connectors, batteries and electromechanical components

Authorized distributor



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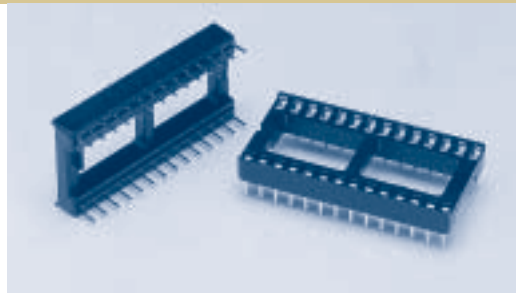
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Stamped Pin I.C. Sockets

S
R



FEATURES

- 0.300" - 0.900" spacing; DIP formats
- 6-64 position
- Closed bottom

MATERIALS

Insulator Glass-filled P.B.T. (UL94V-0)
Contact Phosphorus bronze, tin plated.
(Gold plated is available)

PERFORMANCE

- Current rating 1A min
- Contact resistance Tin plate 20mΩ max.
Gold plated 10mΩ max.
5000MΩ min. 500VDC
- Insulation resistance Continuous -55°C ≈ +85°C
- Operating temperature AC 1000V(1min)
- Withstanding voltage 140 grams ±10
- Insertion force 75 grams ±5
- Withdrawal force

HOW TO ORDER

2556-XT

X: Number of contacts
[6, 8, 14, 16, 20, 22, 24, 28, 32, 40, 42, 48 and 64]

Plcc Sockets



FEATURES

- 20-84 positions

PERFORMANCE

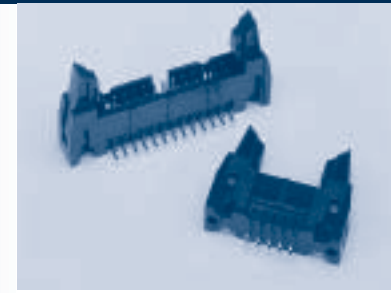
- Current rating 1A min
- Withstanding voltage AC 500V rms.
- Insulation resistance 1000MW up
- Contact resistance 30MW
- Operating temperature Continuous -55°C ≈ +85°C

HOW TO ORDER

2560-XT

X: Number of contacts [20, 28, 32, 44, 52, 68 and 84]

IDC Header With Latch



FEATURES

- 10-64 circuits
- PBT + 30% glass fiber (UL94V-0)
- Fully shrouded body provides maximum protection for contacts pins
- Snap on polarizing keys
- Dip solder on wire wrap post tails
- Available with long or short lock ejectors
- Available with straight or right angle pins
- Requires no special tooling
- Latch/extractor option

PERFORMANCE

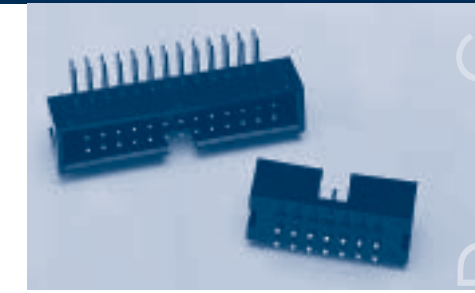
- Current rating 3A AC,DC
- Voltage rating 250V AC. Maximum
- Temperature range -40°C ≈ +105°C
- Contact resistance Initial value/10mΩ max
After environmental testing /
20mΩ max
- Insulation resistance 1000Ω min.
- Withstanding voltage 1500V AC/min
- Applicable PC board thickness 0.063" (1.6mm)

HOW TO ORDER

LPHE-X-Y-02-Z

X: Number of contacts (10, 14, 16, 20, 26, 30, 34, 40, 50, 60 and 64)
Y: Straight (S) or Right Angle (R)
Z: Short latch (S) or long latch (L)

Low Profile IDC Header



FEATURES

- 10-64 circuits
- PBT + 30% glass fiber (UL94V-0)
- Low profile header body helps maximum packaging density
- Available with wrap post tail header
- Fully shrouded body provides maximum protection for contacts pins

PERFORMANCE

- Current rating 3A AC,DC
- Voltage rating 250V AC. Maximum
- Temperature range -40°C ≈ +105°C
- Contact resistance Initial value/10mΩ max
After environmental testing /
20mΩ max
- Insulation resistance 1000MΩ min.
- Withstanding voltage 1500V AC/min
- Applicable PC board thickness 0.063" (1.6mm)

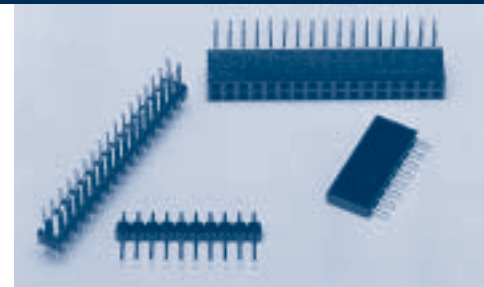
HOW TO ORDER

LPHS-X-Y-02B

X: Number of contacts (10, 14, 16, 20, 26, 30, 34, 40, 50, 60 and 64)
Y: Straight (S) or Right Angle (R)

Strip Pins

E
Z



FEATURES

- 2-80 circuits
- 0.025" (0.64mm) square wire pins
- PBT + 30% glass fiber (UL94V-0)
- Designed for parallel and perpendicular board stacking, also for PCB-to-harness and PCB-to-chassis connection.
- Stackable end-to-end
- Stackable side-to-side on 0.100" (2.54mm) grid
- Utilizes double-wipdebox contact
- Mates with 0.025" (0.64 mm) square pins mounted on a board right angle headers, and straight headers.
- Easy breakaway to smaller sizes
- Straight or right angle pins
- P.C. board and back planes

PERFORMANCE

- Current rating 3A AC,DC.
- Voltage rating 250V AC. Maximum
- Temperature range -40°C ≈ +105°C
- Contact resistance Initial value/10mΩ max
After environmental testing /20mΩ max
- Insulation resistance 1000MΩ min
- Withstand voltage 1500V AC/min
- Applicable PC board thickness 0.063" (1.6 mm)

HOW TO ORDER

LPHBX-Y-Z-02 / PHFX-Y-Z-02

LPHB: Pin Header X: Number of rows (1 or 2)
PHF: Female Header Y: Total number of pins (1 to 80)
Z: Straight (S) or Right Angle (R)

Mini Jumpers



FEATURES

- 2 circuits
- 2 points of contact with each pin
- Press fit-no soldering
- Reliable-no accidental disconnects
- Low cost alternative to DIP switches
- Fully stackable
- PCB + 30% glass fiber (UL94V-0)
- For 0.025" (0.64mm) square or round pins on 0.100" (2.54mm) spacing
- Available in open and closed top versions

PERFORMANCE

- Current rating 3A AC, DC
- Voltage rating 250V AC. Maximum
- Temperature range -40°C ≈ +105°C
- Contact resistance Initial value/10mΩ max
After environmental testing/20mΩ max
- Insulation resistance 1000MΩ min
- Withstand voltage 1500V AC/min

HOW TO ORDER

PHJ-X-02

X: Finish (H: with latch, MB: open type or MA: close type)

IDC Socket



FEATURES

- 10-64 circuits
- PBT + 30% glass fiber (UL94V-0)
- Compatible with standard male header
- Ribbed cover for positive cable location
- Grooved cable positioning
- Gent key polarization
- Contact recess in cover
- Available in full gold plated, tin plated or selective gold plated
- Available with strain relief

PERFORMANCE

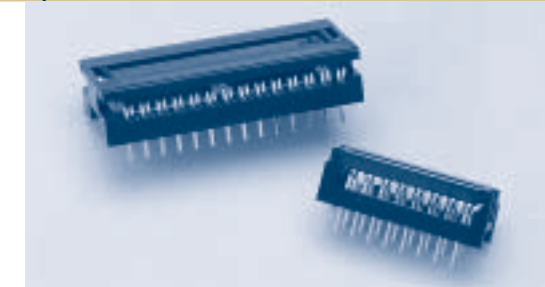
- Current rating 3A AC,DC
- Voltage rating 250V AC. Maximum
- Temperature range -40°C ≈ +105°C
- Contact resistance Initial value/10mΩ max
After environmental testing /15mΩ max
- Insulation resistance 1000MΩ min.
- Withstand voltage 500V AC/min
- Applicable wires AWG #28, 7 strands 0.50" (1.27 mm) pitch flat cable

HOW TO ORDER

PFCS-X-02

X: Number of contacts
(10, 14, 16, 20, 26, 30, 34, 40, 50, 60 and 64)

IDC Dip



FEATURES

- 14-42 circuits
- PBT + 30% glass fiber (UL94V-0)
- Ideal for board-to-board application
- Compatible with standard DIP socket on 0.10"x0.30"(2.54mmx7.62mm) 14-20 circuits
- Compatible with standard DIP socket on 0.10"x0.60"(2.54mmx15.24mm) 24-42 circuits
- Ribbed base aids cable positioning
- Heavy duty contacts with extra strength
- Choice of lating options
- Quick termination

PERFORMANCE

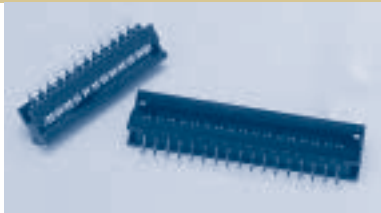
- Current rating 3A AC,DC
- Voltage rating 250V AC. Maximum
- Temperature range -40°C ≈ +105°C
- Contact resistance Initial value/10mΩ max
After environmental testing /
15mΩ max
- Insulation resistance 1000MΩ min.
- Withstand voltage 500V AC/min
- Applicable wires AWG #28, 7 strands 0.50" (1.27 mm) pitch flat cable
- Applicable PC board thickness 0.63" (1.6mm)

HOW TO ORDER

FPW3/6-X-01

FPW3: Pitch 7.62 mm for 14, 16 and 20 pins
FPW6: Pitch 15.24 mm for 24, 28 and 40 pins
X: Number of contacts (14, 16, 20, 24, 28, and 40)

IDC Mini Dip



FEATURES

- 10-60 circuits
- PBT + 30% glass fiber (UL94V-0)
- Ideal for high density stacking on the PC Board
- Designed to fit into standard 0.10"x0.10" (2.54mmx2.54mm) grid pattern
- Provision of ease and permanent termination of flat cable to PCB
- Ribbed base aids cable positioning
- Grooved cable positioning
- Choice of plating options

PERFORMANCE

- Current rating 3A AC,DC
- Voltage rating 250V AC, Maximum
- Temperature range -40°C ≈ +105°C
- Contact resistance Initial value/10mΩ max
After environmental testing /15mΩ max
- Insulation resistance 1000MΩ min.
- Withstand voltage 500V AC/min
- Applicable wires AWG #28, 7 strands 0.50" (1.27 mm) pitch flat cable
- Applicable PC board thickness 0.63" (1.6mm)

HOW TO ORDER

FPN-X-01

X: Number of contacts (10, 14, 16, 20, 26, 34, 40, 50, 60 and 64)

IDC Transition



FEATURES

- 10-60 circuits
- PBT + 30% Glass Fiber (UL 94V-0)
- Ideal for high density stacking on the PC Board
- Designed to fit into standard 0.10" x 0.10" (2.54x2.54mm) staggered terminal
- Provision of ease and permanent termination of flat cable to PCB
- Ribbed base aids cable positioning
- Grooved cable positioning
- Choice of plating options

PERFORMANCE

- Current rating 3A AC,DC
- Voltage rating 250V AC, Maximum
- Temperature range -40°C ≈ +105°C
- Contact resistance Initial value/10mΩ max
After environmental testing / 15mΩ max
- Insulation resistance 1000MΩ min.
- Dielectric withstanding AC 500V
- Applicable wires AWG #28, 7 strands 0.050"(1.27mm) pitch flat cable
- Applicable PC boards thickness 0.063"(1.6mm)

HOW TO ORDER

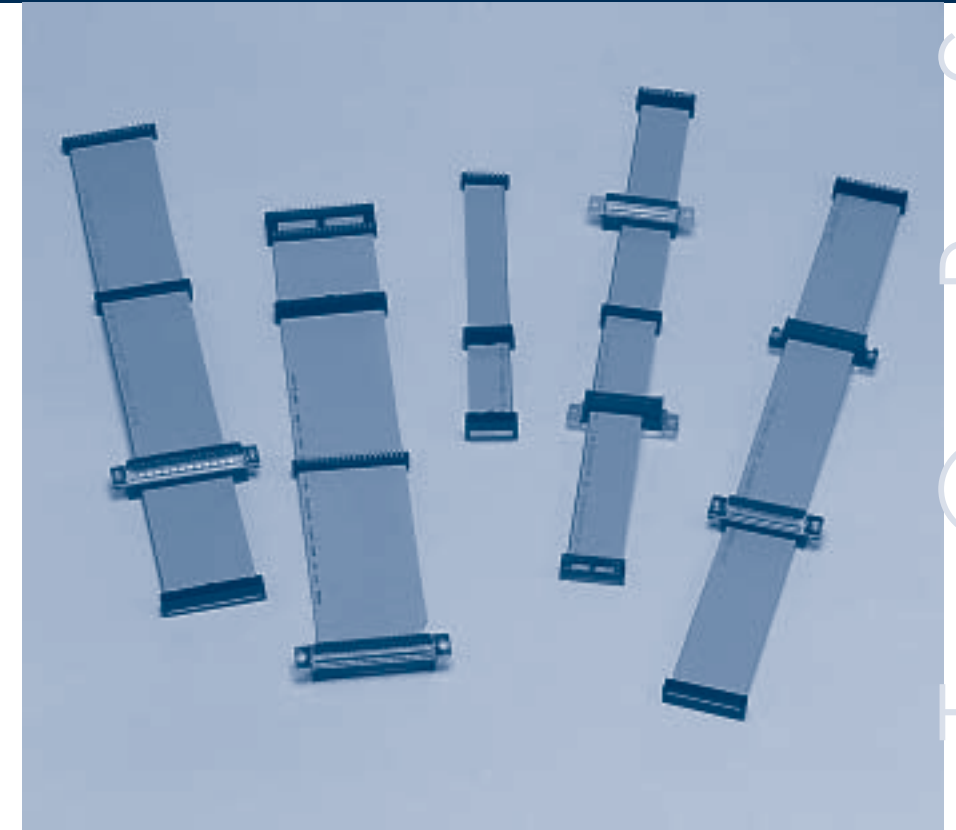
FPF-X-01

X: Number of contacts (10, 14, 16, 20, 26, 34, 40, 50 and 60)

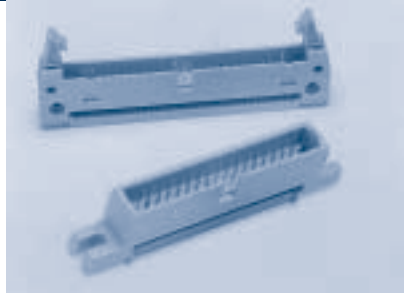
Idc Cable Assemblies

FEATURES

- 9-64 ways assemblies
- IDC connectors (socket, DIP, minidip, transition, male, D-Sub)
- Assemblies according to customer requirements
- Fully tested assemblies



IDC Male With or Without Latch



FEATURES

- 10-64 circuits

PERFORMANCE

- Current rating 3A
- Insulator resistance 5000MΩ min
- Dielectric withstanding AC 500V
- Temperature range -40°C ≈ +105°C
- Contact material Bronze
- Insulator material Polyester, UL94V-0

HOW TO ORDER

FHEX-Y-02-Z

X: FHEL (Long latch IDC male)
FHES (Short latch IDC male)
FHS (IDC male without latch)
Y: Number of contacts (10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60 and 64)
Z: With ears (1) or without ears (0) *Only for FHS series

IDC D-Sub



FEATURES

- Shell Thermoplastic
Steel
Zinc Plated or Tin Plated
Phosphorus bronze
Gold plated over nickel
- Pin/Socket contact
- Insulator PBT & Glass-fiber reinforced UL94V-0
- Number of contact 9, 15, 25, 37

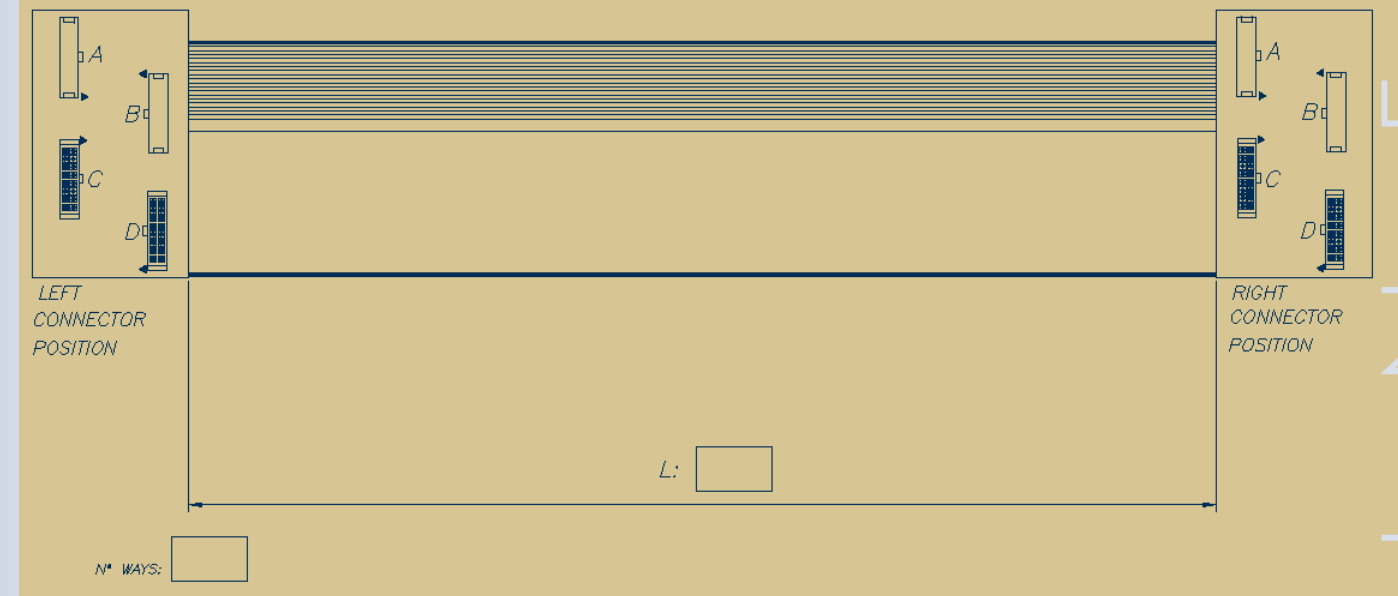
PERFORMANCE

- Current rating 5 A
- Dielectric strength 1000V for one minute
- Insulator resistance 1000MΩ min at 500V DC
- Temperature -55°C ≈ +105°C

HOW TO ORDER

3027-X-Y-B

X: Male (0) or Female (1)
Y: Number of contacts:
1 = 9 pins 2 = 15 pins
5 = 25 pins 6 = 37 pins



INFORMATION REQUIRED

- Types of connectors (PFCS/FPW/FPN/FPF/FHS/FHE or 3027 series), showing pin 1 position (polarity)
- If connector is PFCS series, specify if strain relief is needed and its position (see above drawing)
- Number of ways
- IDC cable length
- If IDC cable includes more than 2 connector, specify it.

DELIVERY SCHEDULE

- Samples in 3 days, once complete details are received, providing its partnumber
- Mass production orders should call our partnumber given to your sample

Flat Cable

FEATURES

- 9-64 ways
- AWG 28 grid 1.27
- Insulation: PVC (Y10 according to VDE 0207)
- UL and CSA approved
- Color: Gray

PERFORMANCE

- Operating voltage 300V cff
- Test voltage 2000Veff
- Current capacity 1A
- Insulating resistance <math><20G\Omega/m</math>
- Capacitance 45 pF/m
- Conductor <math><230\Omega/km</math>
- Impedance 104 Ω
- inductance 0.60 μ H/m
- Cross-Talk asymmetrical 60dB
- Cross-Talk symmetrical 50dB
- Temperature range in inoperative condition +30°C to 105°C

HOW TO ORDER

RCPX-Y

- X: Number of contacts (10, 14, 16, 20, 26, 34, 40, 50 and 60)
Y: 30,5-meter reel (P) or 152,5-meter reel (G)



D-Sub Hoods And Screw Parts



FEATURES HOODS

- 9-37 contacts connector
- Plastic with thumbscrews

FEATURES SCREWS

- Hex locking screw
- Flat washer
- Split washer
- Nut

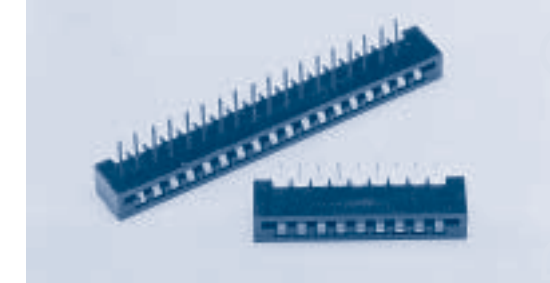
HOW TO ORDER

3100-JX

- X: Number of contacts:
1 = 9 pins 2 = 15 pins
5 = 25 pins 6 = 37 pins

HOW TO ORDER THE SCREW PARTS **SCREWO23G**

Fpc Connector



FEATURES

- Compact and low profile design for saving space
- High reliable contact with low insertion force
- Straight and right angle type facilitate engineering design
- Mate with flexible printed circuit

PERFORMANCE

- Current rating 1A
- Insulator resistance 5000M Ω min
- Contact resistance 20m Ω max
- Dielectric withstanding AC 500V
- Operating temperature -40°C \approx +105°C
- Contact material Phosphorus Bronze
- Insulator material Polyester, UL94V-0
Standard: P.B.T.

HOW TO ORDER

FPC-X-Y-01

- X: Number of contacts (2 to 21 pins)
Y: Straight (S) or Right Angle (R)

Solder D-Sub Type



FEATURES

- Shell Steel
Zinc Plated or Tin Plated
Brass
Phosphorus Bronze
Gold plated over nickel
PBT & Glass-fiber reinforced UL94V-0
- Pin/Socket contact 9, 15, 25, 37
- Insulator
- Number of contact

PERFORMANCE

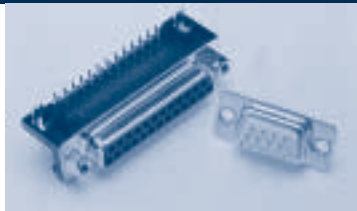
- Current rating 5 A
- Dielectric strength 1000V for one minute
- Insulator resistance 1000M Ω min at 500V DC
- Temperature -55°C \approx +105°C

HOW TO ORDER

3001-X-Y

- X: Male (O) or Female (I)
Y: Number of contacts:
1 = 9 pins 2 = 15 pins
5 = 25 pins 6 = 37 pins
7 = 50 pins

PCB D-Sub Type



FEATURES

- Shell Steel
Zinc Plated or Tin Plated
Brass
Phosphorus Bronze
Gold plated over nickel
PBT & Glass-fiber reinforced
UL94V-0
- Pin/Socket contact 9, 15, 25, 37
- Insulator
- Number of contact
- Straight and right angle pins

PERFORMANCE

- Current rating 5 A
- Dielectric strength 1000V for one minute
- Insulator resistance 1000M Ω min at 500V DC
- Temperature -55°C \approx +105°C

HOW TO ORDER

3012-X-Y (Straight type) / 3206-X-Y (Right Angle type)

- X: Male (O) or Female (I)
Y: Number of contacts:
1 = 9 pins 2 = 15 pins
5 = 25 pins 6 = 37 pins
7 = 50 pins
Standard pitch for 3206 series 9.4 mm. Other pitches available, under request.

Pitch 2.54 mm Shrouded Header And Crip Housing (Serial 2411)



FEATURES

- 2-25 contacts
- Friction lock
- With or without locking ramp
- Nylon (UL94V-0)
- 0.025" (0.64mm) right angle or straight square wire pins
- Mates with 0.025" (0.64mm) pins
- Accepts double cantilever crimp terminal
- Terminal retention or housing - 6.6 lbs (3.0 kg) minimum

PERFORMANCE

- Current rating 3A AC, DC
- Voltage rating 250V AC, Maximum
- Temperature range -25°C \approx +90°C
- Contact resistance Initial value/10m Ω max
20m Ω max
After environmental testing/
- Insulation resistance 1000M Ω min
- Withstand voltage 1500V AC/min
- Applicable PC board thickness 0.063" (1.6 mm)
- Applicable wires AWG #30 \approx #22

HOW TO ORDER HEADER

- JM2411-X-Y**
X: Number of contacts (2 to 25)
Y: Straight (nil) or Right Angle (R)

HOW TO ORDER HOUSING

- JP2411-X**
X: Number of contacts (2 to 25)

HOW TO ORDER TERMINAL

- J2411BS-2***
* 10,000 pcs per reel

Pitch 3.96 mm Shrouded Header And Crip Housing (Serial 2422)



FEATURES

- 2-25 contacts
- Friction lock
- With or without locking ramp
- Nylon (UL94V-2)
- 0.045" (1.14mm) square or round wire pins
- Straight or right angle pins
- Mates with 0.156" (3.96mm) centerline crimp connector
- Mates with 0.045" (1.14mm) square or round pins
- Accepts double cantilever crimp terminal
- Housing available with integrally molded polarizing keys
- Terminal retention or housing - 8 lbs (3.63 kg) minimum

PERFORMANCE

- Current rating 7A AC, DC
- Voltage rating 250V AC, Maximum
- Temperature range -25°C \approx +90°C
- Contact resistance Initial value/10m Ω max
After environmental testing / 20m Ω max
- Insulation resistance 1000M Ω min
- Withstand voltage 1500V AC/min
- Applicable PC board thickness 0.063" (1.6 mm)
- Applicable wires AWG #22 \approx #18

HOW TO ORDER HEADER

- JM2422-X-Y**
X: Number of contacts (2 to 25)
Y: Straight (nil) or Right Angle (R)

HOW TO ORDER HOUSING

- JP2422-X**
X: Number of contacts (2 to 25)

HOW TO ORDER TERMINAL

- J2422BS-2***
* 7,000 pcs per reel

Pitch 3.96 mm Shrouded Header And Crip Housing (Serial 24228)

FEATURES

- 2-12 circuits
- Friction lock
- With or without locking ramp
- Nylon (U94V0)
- 0.045" (1.14mm) square wire pins
- Straight or right angle pins
- Mates with 0.156" (3.96mm) center crimp connector
- Mates with 0.045" (1.14mm) square pins
- Accepts double cantilever crimp terminal
- Terminal retention or housing - 8 lbs (3.63 kg) minimum

PERFORMANCE

- Current rating 7A AC, DC
- Voltage rating 250V AC, Maximum
- Temperature range -25°C ≈ +90°C
- Contact resistance Initial value/10mΩ max
After environmental testing/ 20mΩ max
- Insulation resistance 1000MΩ min
- Withstand voltage 1500V AC/min
- Applicable PC board thickness 0.063" (1.6 mm)
- Applicable wires AVG #22 ≈ #18

HOW TO ORDER HEADER

JM24228-X-Y

- X: Number of contacts (2 to 12)
- Y: Straight (nil) or Right Angle (R)

HOW TO ORDER HOUSING

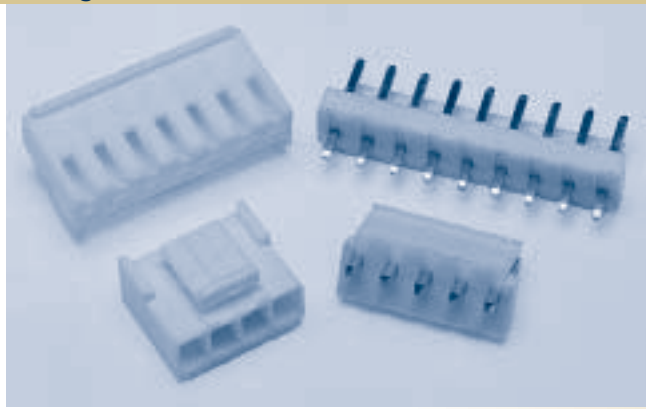
JP24228-X

- X: Number of contacts (2 to 12)

HOW TO ORDER TERMINAL

J24228BS-2*

* 4,000 pcs per reel



Rechargeable Ni-Cd & Ni-MH Battery Packs

FEATURES

	3FN65KA3M	3FN170KA3M
General Features		
Nominal Voltage	3.6V	3.6V
Nominal Capacity	65mAh when discharge at 13mA to 1.0V at 20°C	170mAh when discharge at 34mA to 1.0V at 20°C
Nominal Dimensions	H=18.5mm Ø=16.0mm	H=20.1mm Ø=25.7mm
Charging Conditions		
Nominal Current	6.5mA for 14hrs at 20°C	17mA for 14hrs at 20°C
Trickle Charge	0.65mA (continuous)	1.7mA (continuous)
Maximum Charging Voltage	4.5V at 6.5mA charging	4.5V at 17mA charging
Charging Temperature	0°C to 45°C	0°C to 45°C
Discharging Conditions		
Nominal Current	6.5mA	17mA
Discharging Temperature	-20°C to 45°C	-20°C to 45°C
Storage Conditions		
Storage Temperature	-20°C to 35°C	-20°C to 35°C
Humidity	RH 60%	RH 60%
Electrical Features		
Continuous Overcharge	6.5mA maximum	17mA maximum
Life Cycle	After 500 cycles 60% capacity minimum	After 500 cycles 60% capacity minimum
Charge Retention	After 1 month 80% capacity minimum After 6 months 40% capacity minimum	After 1 month 80% capacity minimum After 6 months 40% capacity minimum
Mechanical Features		
Weight	11.4g	35.2g
Colour	Blue PVC sleeve	Blue PVC sleeve



AVAILABLE TYPES

3FN65KA3M
3FN170KA3M

SPECIAL PACKS

Special packs in cylindrical or cell batteries are also available. Submit us your drawing for evaluation.

Pitch 2.54 mm Crip Housing (Serial DH2542)

FEATURES

- Contact Material Copper alloy
- Available wires AVG #22 to #28
- Housing material Nylon, UL94V-0

PERFORMANCE

- Current rating 3A AC, DC
- Voltage rating 250V AC max
- Temperature range -25°C ≈ +90°C
- Contact resistance 20mΩ max
- Insulation resistance 1000MΩ min
- Withstand voltage 1000V AC/min

HOW TO ORDER HOUSING

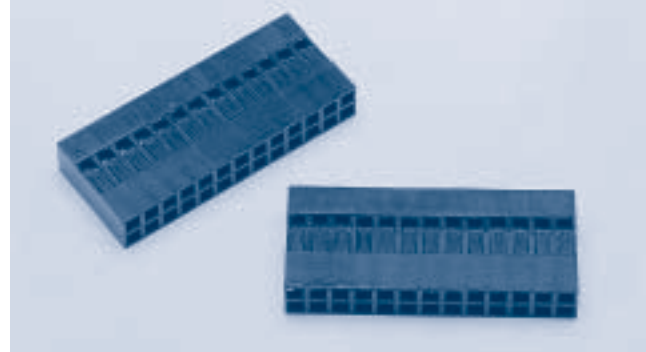
DH2542-XH

- X: Number of contacts (2 to 80)

HOW TO ORDER TERMINAL

DH254T-020*

* 10,000 pcs per reel



Lithium Button Cells

LITHIUM BUTTON CELLS SPECIFICATION CHART

MODEL	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (mAh)	STANDARD CURRENT (mA)	MAX. CONTINUOUS CURRENT (mA)	MAX. PULSE CURRENT (mA)	DIMENSIONS O x H (mm)	APPROX. WEIGHT (g)	CUT-OFF VOLTAGE (V)	GUARANTEE SHELF LIFE (years)
CR1216	3.0	25	0.10	0.20	5	12.5 x 1.6	0.70	2.5	6
CR1220	3.0	30	0.10	0.20	5	12.5 x 2.0	0.90	2.5	6
CR1225	3.0	48	0.10	0.20	5	12.5 x 2.5	1	2.5	6
CR1616	3.0	45	0.10	0.30	8	16.0 x 1.6	1.20	2.5	6
CR1620	3.0	50	0.10	0.30	8	16.0 x 2.0	1.30	2.5	6
CR2016	3.0	70	0.10	0.30	10	20.0 x 1.6	1.80	2.5	6
CR2025	3.0	140	0.20	0.50	15	20.0 x 2.5	2.20	2.5	6
CR2032	3.0	200	0.20	0.50	15	20.0 x 3.2	2.80	2.5	6
CR2320	3.0	120	0.20	0.50	15	23.0 x 2.0	3	2.5	6
CR2330	3.0	260	0.20	0.50	15	23.0 x 3.0	4	2.5	6
CR2430	3.0	270	0.20	1	15	24.5 x 3.0	4.20	2.5	6
CR2450	3.0	550	0.20	1	15	24.5 x 5.0	6.20	2.5	6

MOUNTING FACILITIES

All types available with pins for PCB horizontal or vertical assembling.
Pins bonding as per customers' requirement.
Available PCB battery holder for CR2032.

HOW TO ORDER

CRX-Y

- X: Battery model
- Y: Pin type (H: horizontal pins, V: vertical pins, or nil without pins)



Quartz Crystals

FEATURES

- Low cost
- Industry Standard
- Wide Frequency range (from 1.8432 to 40.960Mhz)
- Excellent Aging
- HC-49U, HC-49S packaging
- DF-26 & DF-38 packaging for tuning fork crystals
- SMD type also available under request

HOW TO ORDER

XMhz/Y

- X: Frequency value
 Y: Packaging: DIP type, HC-49S (S) or HC-49/U (NIL)
 SMD type, low profile type (SM)

HOW TO ORDER TUNING FORK CRYSTAL

32.768KHZ/Z

- Z: Packaging: DF-38 (NIL) or DF-26 (2X6)



Thick Film Resistor Networks

FEATURES

- Low cost
- Single in Line type
- Miniature, High density Packaging
- High reliability
- Standard resistance values:

10	12	15	18	22	27	33	39	47	56	68	82
100	120	150	180	220	270	330	390	470	560	680	820
1K	1K2	1K5	1K8	2K2	2K7	3K3	3K9	4K7	5K6	6K8	8K2
10K	12K	15K	18K	22K	27K	33K	39K	47K	56K	68K	82K
100K	120K	150K	180K	220K	270K	330K	390K	470K	560K	680K	820K
1M	1M2	1M5	1M8	2M2	2M7	3M3	3M9	4M7	5M6	6M8	8M2

HOW TO ORDER

HRAAX-Y-G

- X: Total number of pins (04 to 14)
 Y: Resistance value
 (22Ω = 220, 100Ω = 101, 1K = 102, 10K = 103, 100K = 104, 1M = 105)



Tact Switches

FEATURES

- Mechanical contact
- 4.3mm to 12.5mm length
- 100 to 260 gf (±50gf)
- IC and SMD mounted
- 100,000 cycles min.

PERFORMANCE

- Contact resistance: 100mΩ max.
- Insulation resistance: 100MΩ max.
- Bounce: 10 msec. max.
- Rating: DC 12V 50mA
- Travel: 0.25^{+0.2}_{-0.1}mm

AVAILABLE TYPES

- | | |
|---|--|
| TSVD-1 Sizes 6x6, Operating Force 100gr, Slide Height 8.35mm | TSAD-3 Sizes 6x6, Operating Force 260gr, Slide Height 9.5mm |
| TSAA-2 Sizes 6x6, Operating Force 160gr, Slide Height 4.3mm | TSQA-2 Sizes 12x12, Operating Force 160gr, Slide Height 4.3mm |
| TSAA-3 Sizes 6x6, Operating Force 260gr, Slide Height 4.3mm | TSQB-2 Sizes 12x12, Operating Force 160gr, Slide Height 7.5mm |
| TSAB-3 Sizes 6x6, Operating Force 260gr, Slide Height 5.0mm | TSQG-2 Sizes 12x12, Operating Force 160gr, Slide Height 7.3mm |
| TSAC-3 Sizes 6x6, Operating Force 260gr, Slide Height 7.0mm | TSSB-2 Sizes 6x6, Operating Force 160gr, Slide Height 5.0mm, SMD type |



Optoelectronics products

Full range of LED lamps, LED dot matrix and digit displays, alpha numeric LED displays, LED bars & light bar displays



Fenix DIP Switches

	DL SERIES	DF SERIES	DLT SERIES
Features	Low Profile Binary Dip Switches	Low Profile SMD Binary Dip Switches	Low Profile Trinary Dip Switches
Electrical Specifications			
Contact Rating :	50V/100mA switching 24V/50mA non-switching 5V/240mA non-switching	50V/100mA switching 24V/50mA non-switching 5V/240mA non-switching	50V/100mA switching 24V/50mA non-switching 5V/240mA non-switching
Contact Resistance :	<20mΩ at 20mV /10mA/1Khz	<20mΩ at 20mV /10mA/1Khz	<20mΩ at 20mV /10mA/1Khz
Insulation Resistance :	>500mΩ at 500Vdc	>500mΩ at 500Vdc	>500mΩ at 500Vdc
Dielectric Strength :	>500V RMS during one minute	>500V RMS during one minute	>500V RMS during one minute
Operating Temperature Range :	-25°C to 85°C Service Temper.	-25°C to 85°C Service Temper.	-25°C to 85°C Service Temper.
Storage Temperature Range :	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Capacitance between adjacent switches :	<1pF	<1pF	<1pF
Mechanical Specifications			
Operation Force :	200 -800gr. Slide Operating Force 50gr.Shock Resistance	200 -800gr. Slide Operating Force 50gr.Shock Resistance	200 -800gr. Slide Operating Force 50gr.Shock Resistance
Operation Life :	2.000 Electric Operations	2.000 Electric Operations	2.000 Electric Operations
Vibration :	Per MIL-STD-202F, Method 204D	Per MIL-STD-202F, Method 204D	Per MIL-STD-202F, Method 204D
Materials, Welding & Packing			
Body :	Black PPS UL94V0	Black PPS UL94V0	Black PPS UL94V0
Slide :	White PA UL94V0	White PA UL94V0	White PA UL94V0
Movable Contact :	Copper Beryl 2μm Cu + 2μm Ag	Copper Beryl 2μm Cu + 2μm Ag	Copper Beryl 2μm Cu + 2μm Ag
Terminal :	Brass 2μm Cu + 2μm Ag	Brass 2μm Cu + 2μm Ag	Brass 2μm Cu + 2μm Ag
Wave Welding Heat :	260°C 5 seconds (OFF position)	-	260°C 5 seconds (OFF position)
Hand Welding Heat :	(30W) 320°C 3 seconds (OFF position)	-	(30W) 320°C 3 seconds (OFF position)
Refusion Oven:	-	235°C 10 seconds (OFF position)	-
Steam Stage:	-	215°C 10 seconds (OFF position)	-
Packing :	Slide in OFF position	Slide in OFF position	Slide in OFF position

Dimensions:

DL SERIES
Circuit

DF SERIES
Circuit

DLT SERIES
Available Circuits

	mm	#1	2	#3	4	#5	6	7	8	9	10	12
A	3.90	6.45	9.00	11.55	14.05	16.50	19.15	21.70	24.25	26.80	31.90	
B	-	2.54	5.08	7.62	10.16	12.70	15.24	17.78	20.32	22.86	27.94	

	mm	8
A	22.6	
B	20.32	

N° 1

N° 2

Options:

‡ under request only

‡ under request only

Protector Film

How to order:

DL - □ - □ - □

Number of positions

N: Standard Slide
D: Protector Film
P: Protection Cover

DF - □ - □ - □

Number of positions

N: Standard Slide
D: Protector Film
P: Protection Cover

DLT-08 - □ - □ - □

1 circuit 1
2 circuit 2

N: Standard Slide
D: Protector Film