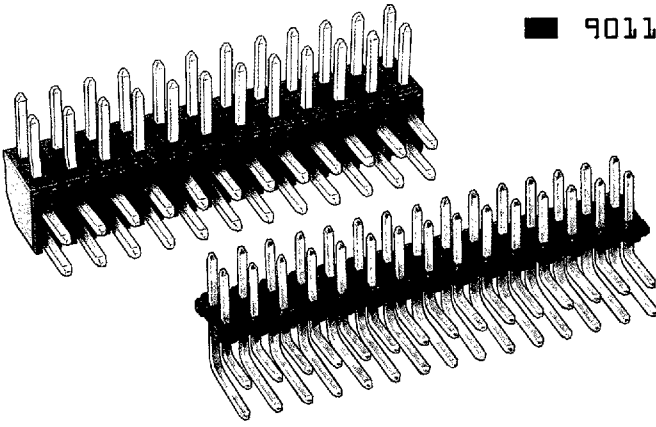


M22 CONNECTORS

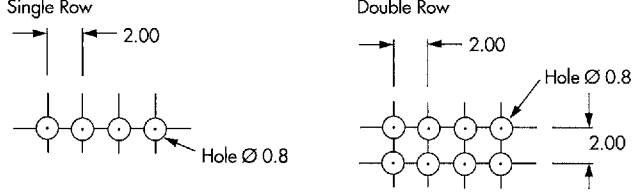
Horizontal Pin Headers

2mm PITCH



A range of single and double row horizontal pin headers which can be used with jumper sockets shown on page F5 and PC board sockets shown on pages F2 to F4. Choice of plating finish.

Recommended PC Board Patterns

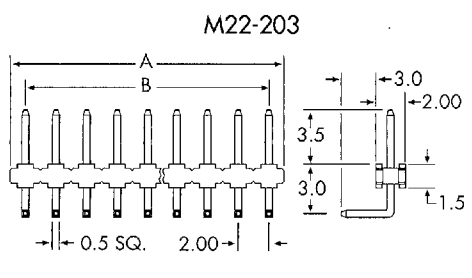


- Plug contacts 0.5mm square phosphor bronze wire.
- Headers can be cut into smaller sizes.
- M22-241 series gives extra stability.
- For pin header variants see pages F12 to F13.

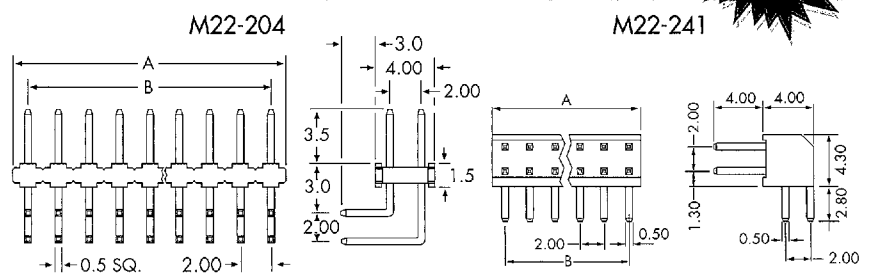
Please contact Technical Sales for sizes above 25 single row and 25+25 double row, up to a maximum of 50 ways.



SINGLE ROW



DOUBLE ROW



No. of Ways	A	B	Order Code		No. of Ways	A	B	Order Code		Order Code	
			Tin	Gold				Tin	Gold	Tin	Gold
2	4.00	2.00	M22-2030206	M22-2030205	2+2	4.00	2.00	M22-2040206	M22-2040205	M22-2410206	M22-2410205
3	6.00	4.00	M22-2030306	M22-2030305	3+3	6.00	4.00	M22-2040306	M22-2040305	M22-2410306	M22-2410305
4	8.00	6.00	M22-2030406	M22-2030405	4+4	8.00	6.00	M22-2040406	M22-2040405	M22-2410406	M22-2410405
5	10.00	8.00	M22-2030506	M22-2030505	5+5	10.00	8.00	M22-2040506	M22-2040505	M22-2410506	M22-2410505
6	12.00	10.00	M22-2030606	M22-2030605	6+6	12.00	10.00	M22-2040606	M22-2040605	M22-2410606	M22-2410605
7	14.00	12.00	M22-2030706	M22-2030705	7+7	14.00	12.00	M22-2040706	M22-2040705	M22-2410706	M22-2410705
8	16.00	14.00	M22-2030806	M22-2030805	8+8	16.00	14.00	M22-2040806	M22-2040805	M22-2410806	M22-2410805
9	18.00	16.00	M22-2030906	M22-2030905	9+9	18.00	16.00	M22-2040906	M22-2040905	M22-2410906	M22-2410905
10	20.00	18.00	M22-2031006	M22-2031005	10+10	20.00	18.00	M22-2041006	M22-2041005	M22-2411006	M22-2411005
11	22.00	20.00	M22-2031106	M22-2031105	11+11	22.00	20.00	M22-2041106	M22-2041105	M22-2411106	M22-2411105
12	24.00	22.00	M22-2031206	M22-2031205	12+12	24.00	22.00	M22-2041206	M22-2041205	M22-2411206	M22-2411205
13	26.00	24.00	M22-2031306	M22-2031305	13+13	26.00	24.00	M22-2041306	M22-2041305	M22-2411306	M22-2411305
14	28.00	26.00	M22-2031406	M22-2031405	14+14	28.00	26.00	M22-2041406	M22-2041405	M22-2411406	M22-2411405
15	30.00	28.00	M22-2031506	M22-2031505	15+15	30.00	28.00	M22-2041506	M22-2041505	M22-2411506	M22-2411505
16	32.00	30.00	M22-2031606	M22-2031605	16+16	32.00	30.00	M22-2041606	M22-2041605	M22-2411606	M22-2411605
17	34.00	32.00	M22-2031706	M22-2031705	17+17	34.00	32.00	M22-2041706	M22-2041705	M22-2411706	M22-2411705
18	36.00	34.00	M22-2031806	M22-2031805	18+18	36.00	34.00	M22-2041806	M22-2041805	M22-2411806	M22-2411805
19	38.00	36.00	M22-2031906	M22-2031905	19+19	38.00	36.00	M22-2041906	M22-2041905	M22-2411906	M22-2411905
20	40.00	38.00	M22-2032006	M22-2032005	20+20	40.00	38.00	M22-2042006	M22-2042005	M22-2412006	M22-2412005
21	42.00	40.00	M22-2032106	M22-2032105	21+21	42.00	40.00	M22-2042106	M22-2042105	M22-2412106	M22-2412105
22	44.00	42.00	M22-2032206	M22-2032205	22+22	44.00	42.00	M22-2042206	M22-2042205	M22-2412206	M22-2412205
23	46.00	44.00	M22-2032306	M22-2032305	23+23	46.00	44.00	M22-2042306	M22-2042305	M22-2412306	M22-2412305
24	48.00	46.00	M22-2032406	M22-2032405	24+24	48.00	46.00	M22-2042406	M22-2042405	M22-2412406	M22-2412405
25	50.00	48.00	M22-2032506	M22-2032505	25+25	50.00	48.00	M22-2042506	M22-2042505	M22-2412506	M22-2412505

Materials

Housing: Glass filled or high temperature thermoplastic UL94V-0
 Male Contacts: Phosphor bronze
 Female contacts: Phosphor bronze
 Jumper Socket contacts: Beryllium copper
 Plating finish: See individual pages

M22 CONNECTORS

Specification

2mm PITCH

Electrical

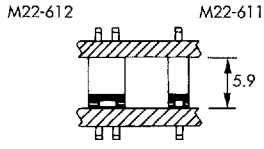
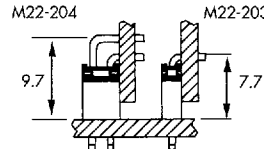
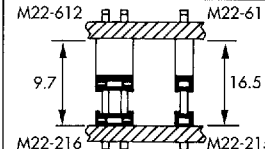
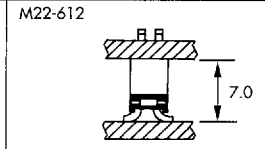
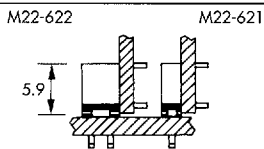
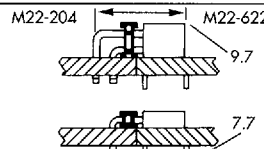
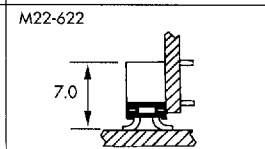
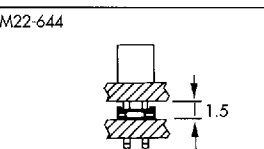
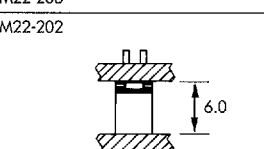
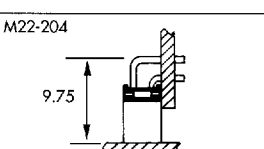
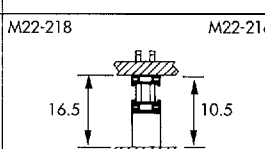
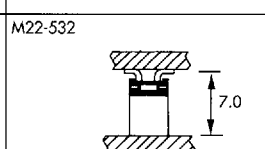
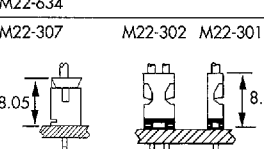
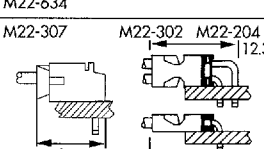
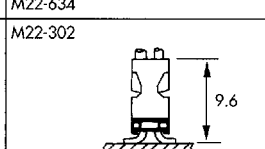
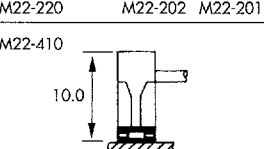
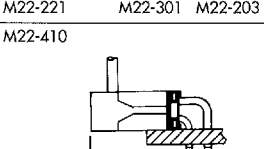
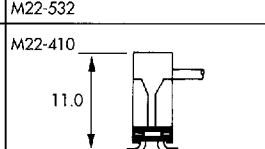
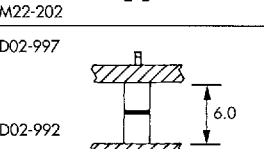
Maximum Current: 2A at 25°C (individual)
 Maximum Current: 1A at 25°C (all contacts)
 Working voltage: 250V dc or ac peak
 Contact resistance: (initial): 20 milliohms max.
 (after conditioning): 30 milliohms max.
 Insulation resistance: 1x10⁴ Megohms min.

Environmental

Temperature classification: -40/+105/21 days 95% RH
 Low air pressure: 300m bar severity

Mechanical

Contact insertion force: 2N max (connectors)
 Contact insertion force: 4.5N max (jumpers)
 Contact withdrawal force: 0.2N min (connectors)
 Contact withdrawal force: 0.6N min (jumpers)
 Mechanical endurance: Gold plated 300 operations.
 Tin plated 50 operations.

M22 SOCKETS	MALE CONNECTORS			
	VERTICAL	HORIZONTAL	VERTICAL EXTENDED	VERTICAL SMT
VERTICAL PC TAIL	M22-612 M22-611  M22-282 M22-201	M22-204 M22-203  M22-612 M22-611	M22-612 M22-611  M22-216 M22-218 M22-215 M22-217	M22-612  M22-532
HORIZONTAL PC TAIL	M22-622 M22-621  M22-202 M22-201	M22-204 M22-622  M22-203 M22-621	NOT AVAILABLE	M22-622  M22-532
BOTTOM ENTRY	M22-644  M22-208	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
VERTICAL SURFACE MOUNT	M22-202  M22-634	M22-204  M22-634	M22-218 M22-216  M22-634	M22-532  M22-634
CRIMP	M22-307 M22-302 M22-301  M22-220 M22-202 M22-201	M22-307 M22-302 M22-204  M22-221 M22-301 M22-203	NOT AVAILABLE	M22-302  M22-532
IDC	M22-410  M22-202	M22-410  M22-204	NOT AVAILABLE	M22-410  M22-532
TURNED PIN	D02-997  D02-992	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE