

# M22 Connectors Specification

- ❖ 2mm pitch, with 0.5mm square male pin connection system.
- ❖ Board-to-Board and Cable-to-Board application options.

## ❖ Materials

Mouldings:	Standard or High Temperature Plastic, UL94V-0
Contacts	
Female:	Phosphor Bronze
Jumper socket:	Beryllium Copper
Male:	Copper Alloy
Finish:	See individual pages

## ❖ Electrical

Current:	Up to 2A per contact (see individual drawings)
Voltage proof:	500V AC for 1 minute
Contact resistance:	30mΩ max
Insulation resistance:	500MΩ min

## ❖ Mechanical

Durability	
M22-30X:	25 operations
Others:	300 operations
Insertion force (max)	
Jumper sockets:	10N total
M22-30X:	2.9N per contact
Others:	2.0N per contact
Withdrawal force (min)	
Jumper sockets:	1N total
M22-30X:	1.0N per contact
Others:	0.2N per contact
Vibration sensitivity	
M22-654, 655:	50 – 2,000Hz, 3.13G, 45 minutes duration
Others:	10 – 55Hz, 1.5mm, 6 hours duration
Shock severity:	294m/s <sup>2</sup> (30G) for 11ms

## ❖ Environmental

Operating temperature	
M22-30X:	-25°C to +85°C
Others:	-40°C to +105°C
Solderability	
M22-636, 713, 714:	250°C for 3 seconds
Others:	245°C for 5 seconds
Soldering heat resistance:	260°C for 10 seconds

2mm (.079") PITCH