M30 Connectors Specification

> Material

Mouldings: SMT: Nylon 6T, UL94V-0

Others: Nylon 66, UL94V-0

Contacts: Male: Brass

Female: Phosphor Bronze

Finish: Tin

⇒ Electrical

Current rating: 1A per contact Voltage rating: 150V AC Voltage proof: 500V AC/DC Contact resistance: 30 m Ω max Insulation resistance: 500 M Ω min

> Environmental

Operating temperature: -25°C to +85°C

Solderability: 245°C for 5 seconds

Soldering heat resistance: PC Tail: 250°C for 5 seconds

SMT: 260°C for 10 seconds

> Mechanical

Durability: 50 operations
Insertion force (max): 4.9N per contact
Withdrawal force (min): 0.5N per contact
Crimp retention (min): 4.9N per contact
Crimped wire retention (min): 26 AWG wire: 19.6N

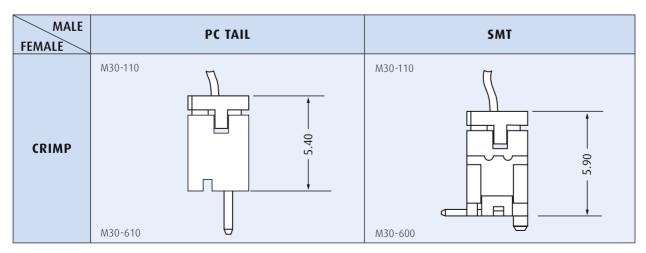
28 AWG wire: 9.8N 30 AWG wire: 7.8N

Vibration sensitivity: 10 – 55Hz, 1.5mm, 6 hours duration

Shock severity: 490m/s² (50G) for 11ms

All preferred sizes of this range are held in stock. Check www.harwin.com for availability.

Mating Profiles



All dimensions in mm.

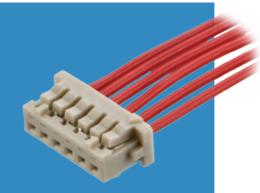


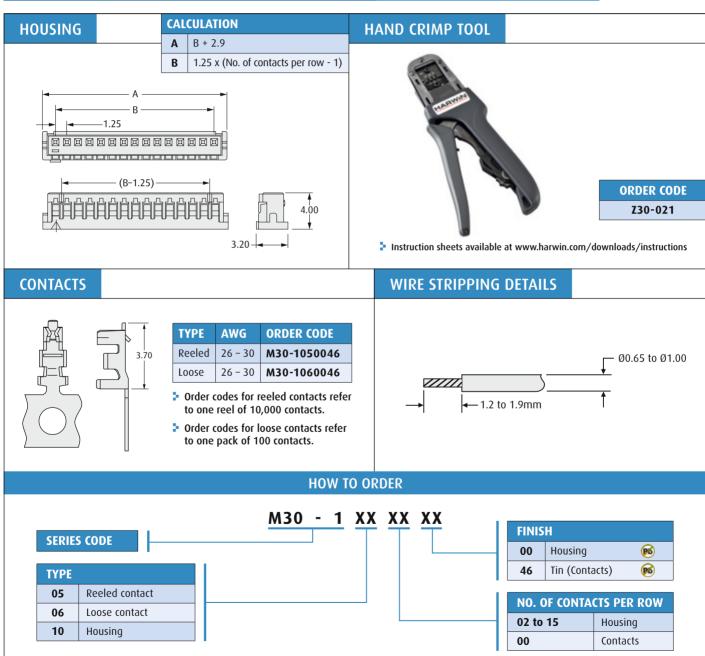
M30 Connectors

Female Crimp Housing and Contacts

A range of 1.25mm pitch male and female connectors, for cable-to-board applications.

- Loose or reeled contacts.
- **▶** Suitable for use with male connectors shown on page 102.



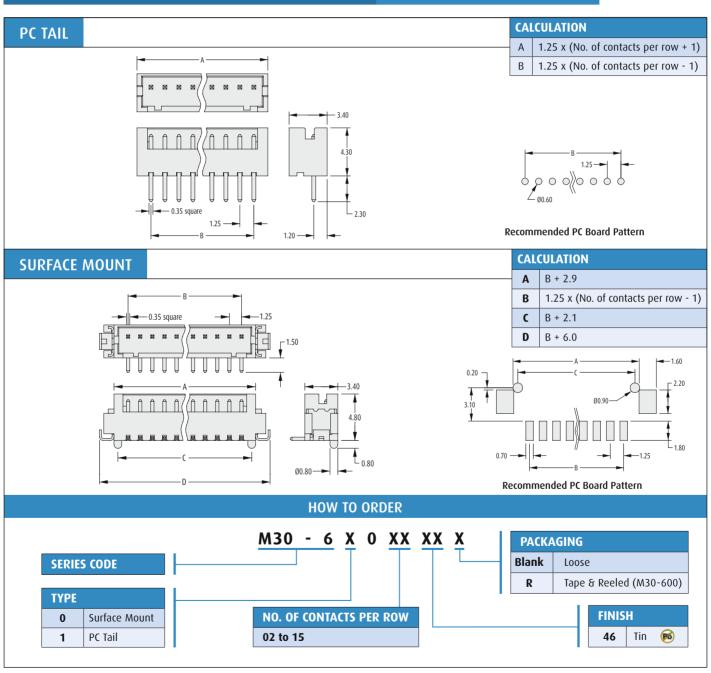


All dimensions in mm.



M30 Connectors

Male Vertical Shrouded male connectors. Suitable for use with female connectors on page 101. SMT version features metal solder-down tabs and locating pegs to ensure correct positioning onto the board.



All dimensions in mm.