



M30 Connectors Specification

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

⇒ Material

Housings SMT:

Nylon 6T, UL94V-0 Nylon 66, UL94V-0

Others: Contacts

1.25mm (.049") PITCH

Male:

Brass

Female: Phosphor Bronze

Finish:

Electrical

Current: 1A per contact Working voltage: 150V AC Voltage proof: 500V AC/DC Contact resistance: 30mΩ max Insulation resistance: 500MΩ min

→ 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)

19.6N 26 AWG wire: 9.8N 28 AWG wire: 30 AWG wire: 7.8N

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

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

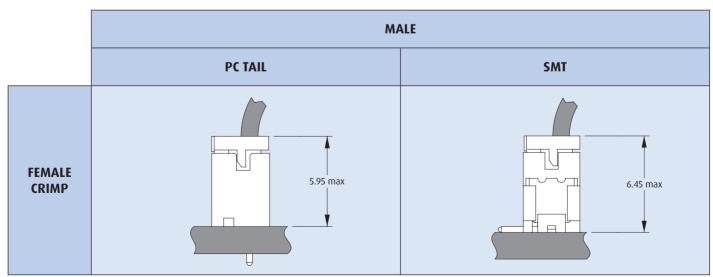
★ Environmental

Operating temperature: -25°C to +85°C Solderability: 245°C for 5 seconds

Soldering heat resistance

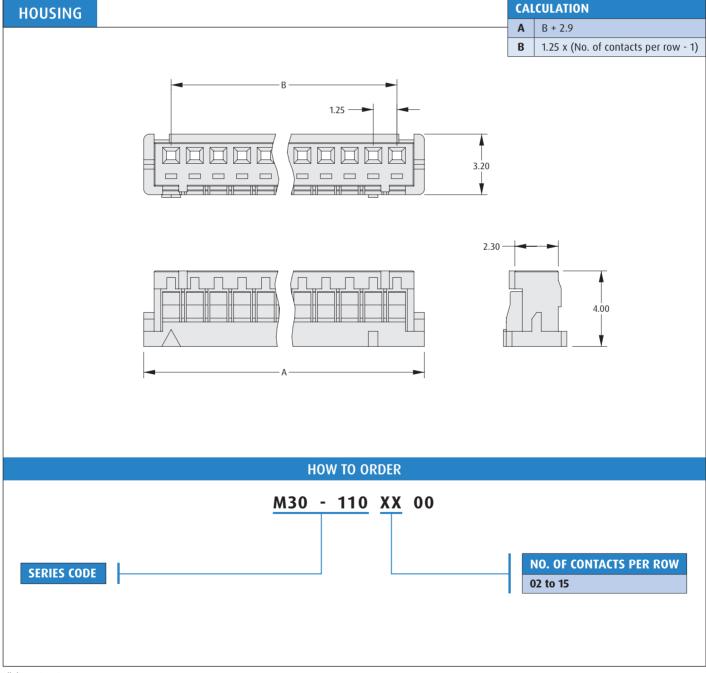
PC Tail: 250°C for 5 seconds SMT: 260°C for 10 seconds

Mating Profiles





Female Crimp Housing Loose or reeled contacts. Crimp contacts or pre-cabled contacts are ordered separately - see the following pages.





Female Crimp Contacts

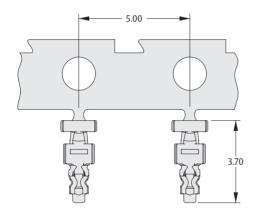
- Loose or reeled contacts.
- ▶ Open crimp design, ideal for automation.
- ▶ Use with female crimp housings shown on previous page.
- ➤ Pre-crimped contacts with wire attached shown on following page.



CONTACTS

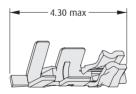
Reeled (continuous strip)

• Order code is for one reel of 10,000 contacts.



Loose (cropped)

• Order code is for one pack of 100 contacts.

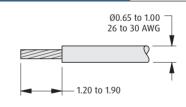


HAND CRIMP TOOL

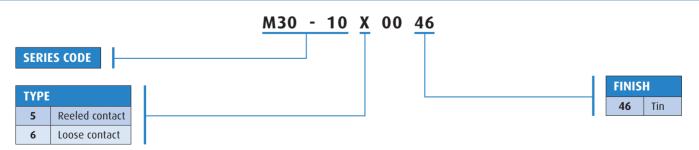
Instruction sheet is available at www.harwin.com/instructions.



WIRE STRIPPING DETAILS



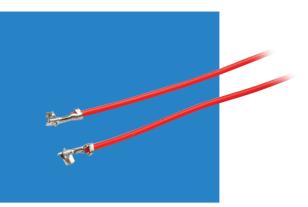
HOW TO ORDER

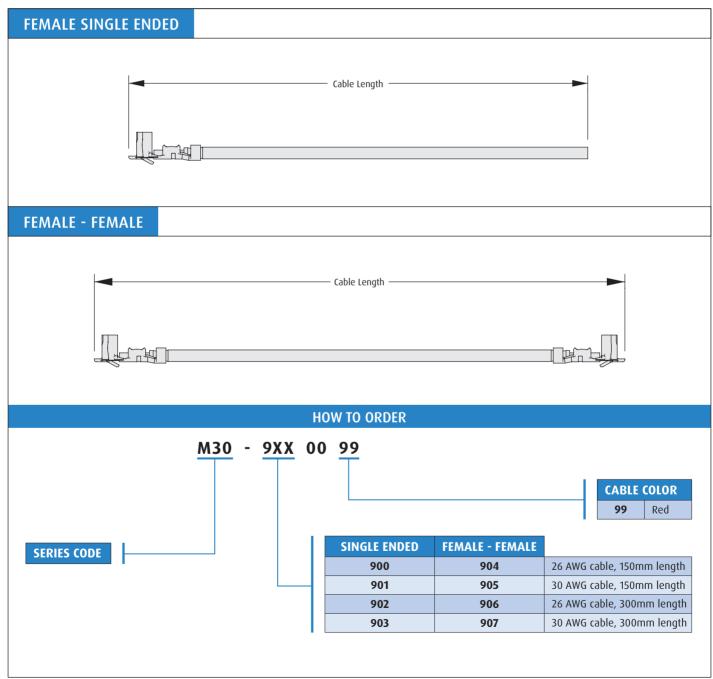




Female Crimp Contacts - Pre-Crimped Wires

- ▶ Female crimp contacts pre-assembled with a choice of wire sizes and lengths.
- ➤ PTFE-insulated, multi-strand silver-plated copper conductor equipment wire.
- **▶** Use with female crimp housings shown on previous page.
- ▶ Ideal for prototype and pre-production applications.
- ▶ Individual contacts without wire shown on previous page.







Male Vertical Shrouded male connectors. SMT version features metal solder-down tabs and locating pegs to ensure correct positioning onto the board. Tape and Reel option supplied fitted with Pick and Place cap.

