HotShoe Connectors Specification

Features and Benefits

- Constructed using spring loaded contacts, maintaining a positive force against the mating connector.
- Low mating force enables rapid and effortless connection for a user-friendly connection system.
- Rugged and robust, made from highly durable mould materials and designed to withstand a high level of dust, water and chemical agent ingress to IP68 ensuring continued reliability throughout the product's lifecycle.
- > Tolerant to mating misalignment.
- Ideal for use in portable equipment where separate battery modules are used, and for data transfer docking stations.

Typical Applications

- Military radio systems
- Thermal imaging cameras
- Hand-held scanners

- Docking stations
- Hand-held commercial radios
- Portable datacoms equipment

Powerboat gantry connection system

Specifications

Materials

Mouldings: High Temperature Plastic,

UL94V-0

Seals: Thermoplastic Elastomer

or Nitrile

Contacts: Brass

Threaded Inserts, Springs: Stainless Steel

Finish: Gold

Environmental

Temperature range: -40°C to +100°C

: Electrical

Current rating: 1A per contact

Voltage rating: 240V DC

Contact resistance: Male: 10 m Ω max

Female: 30 mΩ max

Insulation resistance: $1,000 \text{ M}\Omega \text{ min}$

: Mechanical

Durability: 10,000 cycles

Environmental seal: IP68 at 1.5m for 2 hours

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

Mating Profiles

FEMALE MALE	PC TAIL	SOLDER
PC TAIL	M90-604 M90-605 15.50 between PCBs	M90-606 18.50 to PCB M90-704
SOLDER	M90-706 M90-604 M90-605	M90-606 M90-706

All dimensions in mm.



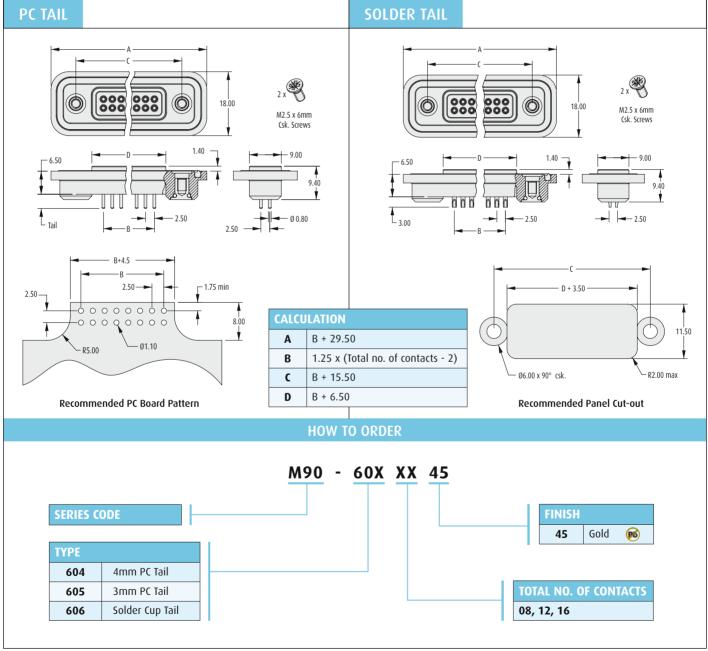
HotShoe Connectors



Female Connector

- ▶ Sealed to IP68 at 1.5m.
- ➤ Spring probe design for maintaining a positive force against the mating connector see page 160.
- ▶ Solder cup Tail suitable for 26 AWG cable.
- **▶** Recommended panel/bulkhead thickness is 1.5mm.





All dimensions in mm.

HotShoe Connectors

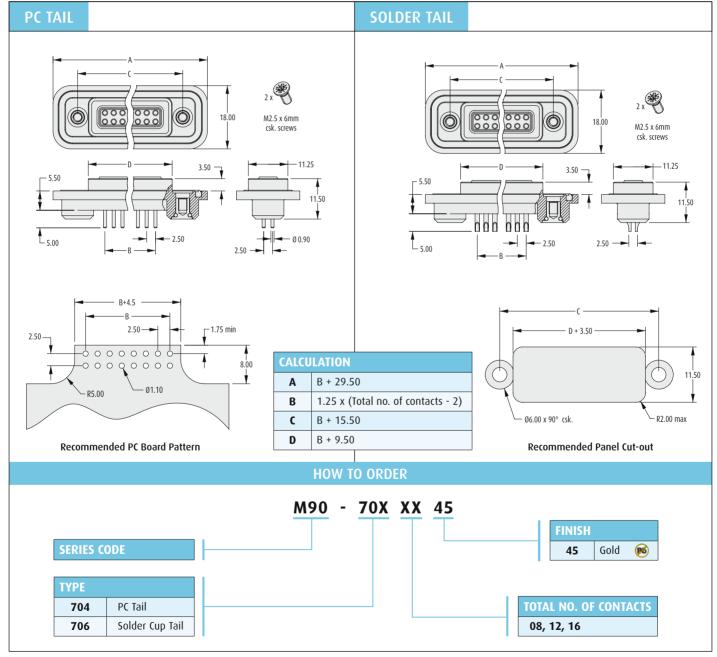


Male Connector

- Sealed to IP68 at 1.5m.
- **▶** Designed to mate with a spring probe connector see page 159.
- ► Solder Cup Tail suitable for 26 AWG cable.

▶ Recommended panel/bulkhead thickness is 1.5mm.





All dimensions in mm.

