



Harsh Environment Connectivity Solutions



1/4" Long Frame Jack

Long frame jacks are designed especially for high quality communication equipment, and to meet exacting MIL specifications, as well as telephone and communication systems. Many jacks have WEco equivalent types. MT-Jax® phone jacks are offered in four styles: MT-Jax, WMT-Jax®, XMT-Jax® and YMT-Jax®. Rugged steel frames are produced in specially designed dies, press welded to provide rigidity and dimensional stability required by telephone and communication jack panels - and to meet MIL frame strength tests. "A" and "C" frame styles are available.

Material

- **Frame and Stack Screws:** Plated steel, with iridescent iridite finish.
- **Springs:** Copper alloy, spring tempered. Solder lugs are tinned.
- **Bushings:** Plated copper alloy standard. Natural brass finish optional.
- **Insulation:** Rigid plastic spacers (MIL-type PBE-P per Specification LP-513). One piece molded through stack.
- **Contacts:** Welded crossbar palladium contacts in shunt and isolated switching circuits are standard. Gold alloy (WEco #1) and fine silver are available on special order.

Mechanical

- **Life:** Commercial jacks 10,000 insertion/withdrawal cycles, minimum. Military Jacks--20,000 insertion/withdrawal cycles, minimum.
- **Mechanical Shock:** Military Jacks Per MIL-STD-202, method 213, Test Condition H (75g).
- **Vibration:** Military Jacks Per MIL-STD-202, method 213, (10-55 Hz).

Electrical

- **Contact Resistance:** Commercial Jacks.030 ohms maximum (initial), .050 ohms maximum (after humidity, durability exposure). Military Jacks.010 ohms maximum (initial), .020 ohms maximum (after life), .10 ohms maximum (after salt spray).
- **Insulation Resistance:** Commercial jacks 10,000 M(omega) minimum (initial), 1,000 M(omega) minimum (after humidity). Military Jacks 10,000 M(omega) minimum

(initial), 1,000 M(omega) minimum (after humidity, durability exposure).

- **Dielectric Withstanding Voltage:** 500 V, 60 Hz (rms) AC.

Environmental

- **Thermal Range:** Commercial Jacks -55°C to +85°C (non-operating); -20°C to +65°C (operating). Military Jacks -55°C to +85°C (non operating); -40°C to +65°C (operating).
- **Thermal Shock:** Commercial JacksPer MIL-STD-202, method 107. Military Jacks: Per MIL-STD-202, method 107.
- **Humidity:** Commercial JacksPer MIL-STD-202, method 106. Military Jacks--0% to 95% operating and non-operating.
- **Salt Spray:** Commercial JacksPer MIL-STD-202, method 101. Military JacksPer MIL-STD-202, method 101 (48 hours).
- **Moisture Resistance:** Military JacksPer MIL-STD-202, method 106 (240 hours).

Ordering

Order jacks by part number. Additional variations in jacks are available on special order. Special circuitry, frames, contacts, natural brass bushings, as other terminals are available.