



**LONG FRAME TELEPHONE JACKS**

- 1. MT-Jax® ("A" Frame and "C" Frame respectively)
- 2. XMT -Jax®, Number XMT-332A (Offset Ground Lug "AWAY" from Frame)
- 3. WMT -Jax®, Number WMT-332B (Wire-Wrapping Terminals)
- 4. YMT -Jax®, Number YMT-332B (Offset Ground Lug "TOWARD" Frame)
- 5. Details of Typical Buss Wiring of Jacks with Offset Ground Lugs

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. MTJax® phone jacks are offered in four styles: MTJax, 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.

**TERMINALS** Solder Lug: All MTJax have solder lug terminals. Wire/Wrapping Terminals: WMTJax have wire-wrapping terminals. Offset Ground Lugs: XMTJax and YMTJax have ground lugs, which simplify production line wiring time. A single row of jacks can be installed with a single buss wire connected to all ground lugs in a row, or when double rows are mounted on .625 inch vertical centers with lugs oriented between rows, holes in ground lugs line up so a single buss wire provides connections for both rows. XMTJax have ground lugs oriented away and YMTJax are oriented toward jack frame. See illustration.

**MIL STANDARDIZATION** MIL jack types listed have been adjusted for use with plugs specified in Amendment No. 1, MILP-642, usually M642/1-1, M642/1-2, M642/2-1, M642/2-2, M642/4-1 or M642/4-2. When applicable, specify the plug you will use; we will adjust with that plug where the item is not a-MIL type. NOTE: MTJax jacks Numbers xMT342B and xMT-344B have shorter bushings, 0.5 inches long with a hold inside diameter of .21 inches. They will mate with MIL plug M642/5 or M642/8-1. M642/5-1 plug (Switchcraft 480) cannot be used with xMT342B or xMT-344B if these jacks are mounted on standard .625 inch thick panels. The short jack bushings are recessed .125 inch, and the M642/5s too wide to fit in the panel recess. Use plug M642/8 (Switchcraft 484) with a narrower diameter to fit in the recess and mate properly.

**CONTACTS** Contacts on shunts and isolated switching circuits are welded crossbar palladium. Welded crossbar gold alloy contacts (WEco #1) are available on special order for dry circuit applications.

**SPECIFICATIONS**

**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.

**SPECIFICATIONS**

**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 Jacks Per MIL-STD-202, method 107.

Military Jacks: Per MIL-STD-202, method 107.

**Humidity:** Commercial Jacks Per MIL-STD-202, method 106.

Military Jacks - 0% to 95% operating and nonoperating.

**Salt Spray:** Commercial Jacks Per MIL-STD-202, method 101.

Military Jacks Per MIL-STD-202, method 101 (48 hours).

**Moisture Resistance:** Military Jacks Per 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.

Prefix Option 1	Prefix Option 1	Series	Circuitry
Straight solder lugs	Blank - "A" frame mounting	MT33 - 1/4" Long frame telephone jack	1 - I
Wire wrap terminals	C - "C" frame mounting	MT34 - .206" Long frame telephone jack	2 - II
Offset solder lugs away from frame			2A - III
Offset solder lugs toward frame			2B - IV 2C - XVIII 3 - V 3A - VI 3B - VII 3E - IX 4A - XI 4B - XII 4C - XVII 4E - XXV 4F - XIX 5 - XIII 5A - XXVI 6 - XX 6A - XIV 6B - XXI 6C - XXII 6D - XXXI 6E - XXIII 7 - XXIV 8 - XXXII 9 - XXVII 55 - XXXV * 56C - XXXVI * 57 - XXXVII * 58 - XXXVIII * 59 - XXXIX *

\* - These circuits are available in MT33 series only. When using, exclude the second "3" from MT33. Example - MT359.

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