Wondering if you need grease for electrical contacts and connectors? Here are some myths and facts to help you make your design decision.

**Myth #1:** Grease attracts dirt.

**Fact:** A thin film of Nye lubricant reduces mating force by as much as 80%. Low insertion forces on multi-pin connectors will ensure solid connections.

**Myth #2:** Lubricants interfere with conductivity.

**Fact:** Lubricants interfere with conductivity. A lubricant acts as a backup environmental seal from corrosion.

**Myth #3:** Lubricants don’t prevent corrosion.

**Fact:** Lubricants do not significantly lower insertion force.

**Myth #4:** Lubricants don’t prevent fretting corrosion.

**Fact:** A contact lubricant fills in the valleys of contact surface to protect the metal from oxidation, and is squeezed out of the asperities, allowing the current to flow.

**Myth #5:** Lubricants can’t be used with gold-plated contacts.

**Fact:** Electroplated contacts don’t need grease. Gold-plated contacts are used in environments with minimal solid contaminants.

**Myth #6:** Lubricants don’t need grease.

**Fact:** Magnets attract, greases don’t. Grease creates an environmental barrier, so dirt, dust, and moisture stay away from the contact surface.

**Learn more at NyeLubricants.com**