

FIGHTING CABLE CORROSION

THIS MLRS NEEDS ME!

LET ME AT THOSE CORRODED CABLES!!!



Thousands of electrical cables are used on Army equipment, ranging from the most basic radio systems to complex missile systems and aircraft. All of these cables can be knocked out by corrosion in their connectors. And once the cables are gone, so is the equipment they're powering. That's why you need to do everything possible to fight cable corrosion.

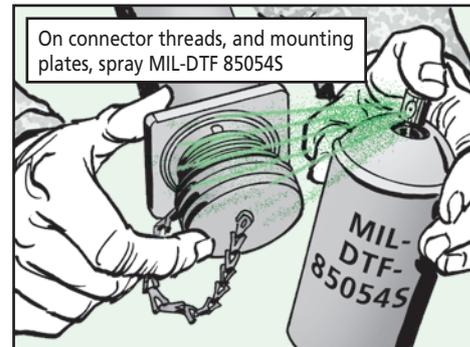
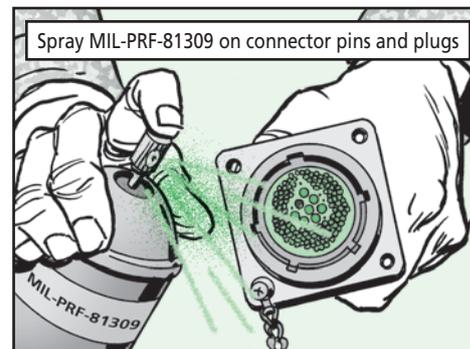
Corrosion takes many different forms, depending on what the cable connector is made of. Corrosion on **aluminum** can be white, gray or black and look like a paste when wet or a hard film or crumbly deposit when dry. On **steel**, corrosion is red, brown or black and looks crusty. On **copper**, it's green or blue and looks like paste when wet. Pitting is also a form of corrosion.

The best way to combat cable corrosion is to apply corrosion preventive compounds (CPCs) to both the inside and outside of connectors on a regular basis.

On the inside of connectors, spray a light coat of MIL-PRF-81309 Type III CPC, NSN 8030-00-546-8637, on the pins and plugs. Do this in a well-ventilated area. That's a light coat! Don't soak the connectors. MIL-PRF-81309 Type III is the only authorized CPC for connector pins and plugs.

On connector shells and mounting plates, apply a light film of MIL-DTF-85054S Type II CPC, NSN 8030-00-938-1947. Again, just a light coat. This CPC is also good for lubing moving parts like hinges.

Then, during your weekly PMCS, check for corrosion on connector mating surfaces, threads, shells and mounting plates. Treat them again with CPCs if necessary. Be sure to remove the old CPC residue before applying a new coat.



Other CPCs

MIL-DTL-85054S, NSN 8030-01-347-0979, is good for protecting non-moving metal parts, such as skin seams, fastener heads where paint has cracked, access panel edges, and areas with damaged paint.

Use MIL-L-23398 (solid film lube), NSN 9150-01-260-2534, or MIL-PRF-81302 Type II, NSN 8030-00-938-1947, on sliding components like hinges, turnbuckles, latches, and flap tracks. Solid film lube is also good for protecting areas where paint or protective finish has worn off.

Corrosion POCs

IF YOU HAVE CORROSION QUESTIONS, CONTACT AMCOM'S CORROSION PROGRAM OFFICE'S ROBERT HERRON AT DSN 746-8470; (256) 876-8470; OR EMAIL: robert.a.herron@us.army.mil

OR EMAIL: steve.carr@us.army.mil

