Fitting Pin type Insulators

1) Tightening Torque.

Although most pin type insulators can withstand very high tightening torques, it is quite possible to split them by overtightening when fitting the pin to the insulator. If they are assembled to pins in cold conditions overtightening can also lead to delayed failure.

For this reason NZ Insulators recommend that insulators fitted to the following pins are not tightened beyond the torques shown:-

5/8" Cordeau pin	50Nm (40 lb.ft)
1" Lead head or Nylon Thread	80Nm (60 lb.ft)
Australian Pattern C lead head	80Nm (60 lb.ft)
Steel Head Pins	80Nm (60 lb.ft)

2) Freezing Conditions.

Investigation of early failure of insulators installed in winter conditions has shown that where insulators are exposed to wet conditions while inverted or lying on their sides, it is possible for the space between the pin and the porcelain to become filled with water. If this subsequently freezes the top of the insulator may "pop off" or the insulator split.

It is important when freezing conditions are likely that insulators are not left lying in a way that could let water into the pin/porcelain area.