

17<sup>th</sup> May 2017

## DFV (Electronic Register / Level Gauge Monitor) Wiring Installation Bulletin

Dear Customers,

It has come to the attention of Liquip that some wiring installations for the DFV10x are causing faulty signals to be displayed on the DFV register/level gauge unit. In most cases these error messages are caused by electrical leads of its remote pulser (like ERP200) becoming pinched underneath the DFV lid hinge. Faulty signals related to this can easily be prevented by following simple steps during the installation of the unit.



Pinched leads may result in the following error messages being displayed on the DFV10x:

- 'Pulse Error'
- 'Wrong Direction'

### Likely Cause

The wires inside the DFV must not pass behind the hinge pins. When the DFV door closes, this can compress the wires and cause intermittent faults. It is often the wiring that causes pulser related fault.

### Recommended Solution

Ensure the wires inside the DFV do not pass behind the hinge pins.

In an effort to ensure all DFV units are correctly installed and operate as intended, Liquip has published a brief installation guideline which outlines and recommends that installers should take the following precautions to guard against these faults (see recommended installation overleaf).

**POOR INSTALLATION: CONNECTING PULSER TO DFV**

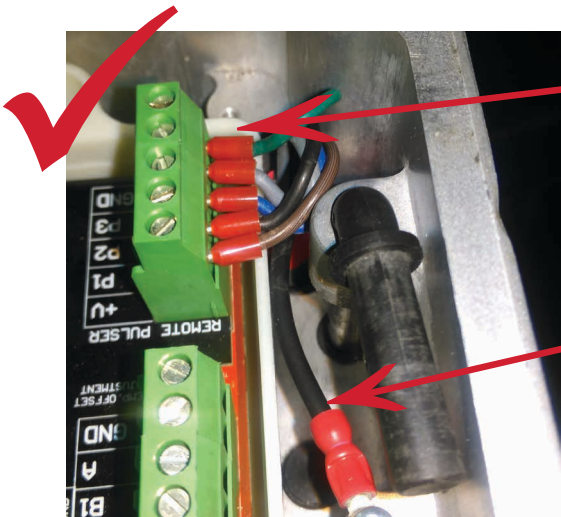


Cores not terminated with bootlace ferrule and some wire strands exposed, with risk of a short circuit.

Long core leads can be jammed under lid hinge, causing breaks in insulation and intermittent short circuit issues.

Shield braid not covered with insulation and has no eye terminal to firmly secure to DFV chassis.

**RECOMMENDED INSTALLATION: CONNECTING PULSER TO DFV**

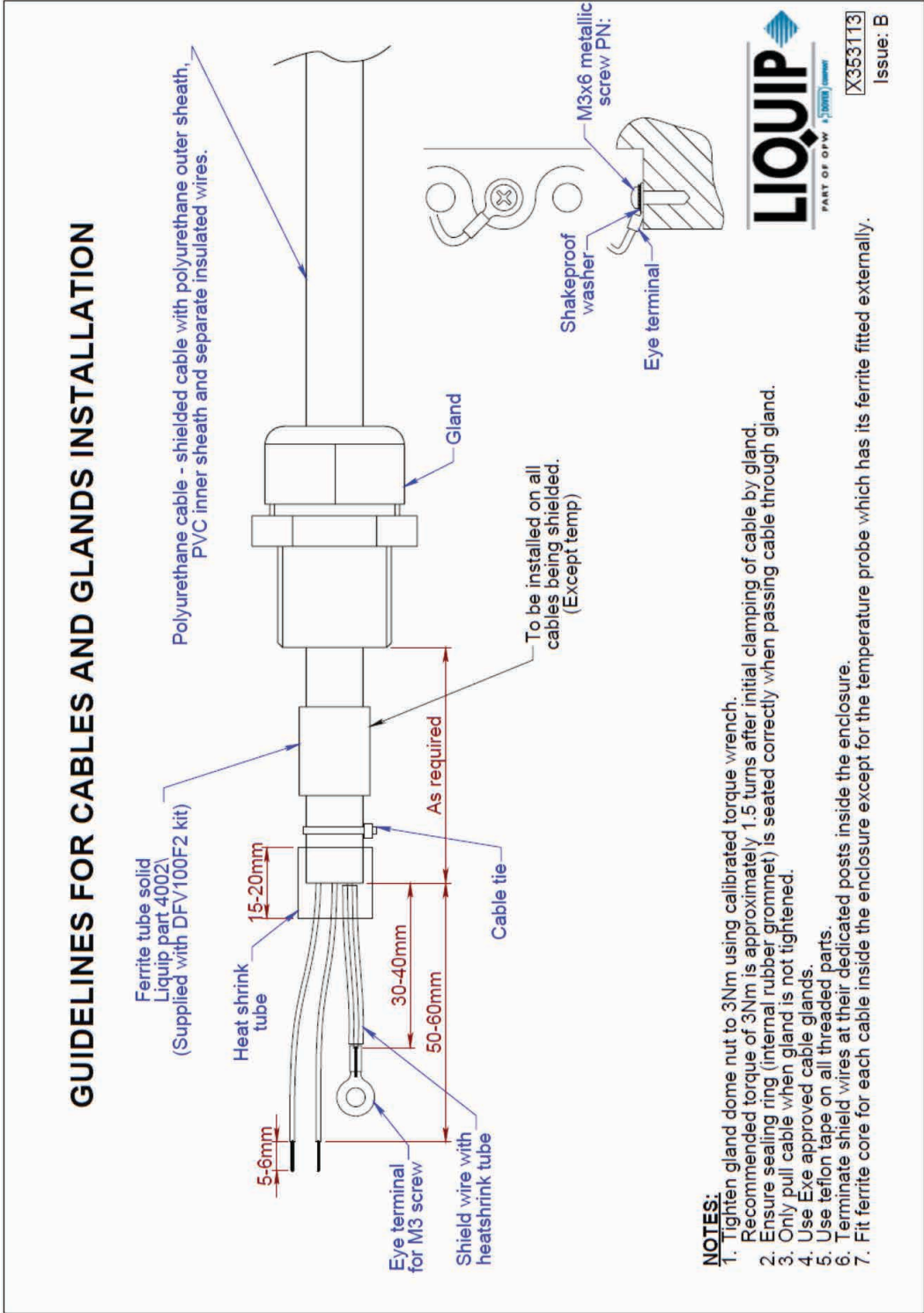


Cores terminated with bootstrap ferrules (8mm pin length x 1.5mm  $\phi$ ).

Ex e screws tightened 0.5-0.6Nm. Shorter leads (5cm) not routed underneath display lid hinge.

Drain wire covered with heat shrink or insulation sleeve, terminated with eye connector (M3) + shake proof washer.





**NOTE:** The above guideline is to be used in conjunction with Liqip’s official DFV10x installation and operation manual.

Sincerely,  
Liqip

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