

## Loop Test Cheat Sheet

<p><b>Indication of a clean loop with no electronics:</b></p> <ul style="list-style-type: none"> <li>✓ In the DC KOHMS and AC KOHMS T-R, T-G, and R-G rows, all values are 9999.</li> <li>✓ In the DC VOLTS and AC VOLTS T-R, T-G, and R-G rows, all values are 0.</li> <li>✓ Unbalance is less than 5%.</li> <li>✓ Metallic noise is less than 25 for &lt;10KF and less than 20 for &gt;10KF.</li> <li>✓ Ringers for T-R, T-G, and R-G are NO.</li> </ul> <p><b>Action(s):</b> Check the open length and verify the loop length falls within the parameters of the service.</p>	<p><b>Indication of a Mid-Span repeater on the loop:</b></p> <ul style="list-style-type: none"> <li>✓ In the DC KOHMS T-R row, a numeric value of #116 - #123 is present.</li> <li>✓ In the AC KOHMS T-R row, a numeric value is present.</li> <li>✓ Ringers show YES.</li> <li>✓ Terminated Length will be excessive (usually 60+KF).</li> <li>✓ Load area values will resemble: 88 358 2780 9999 9999</li> </ul> <p><b>Action(s):</b> Check for other problems (DSLAM errors).</p>	<p><b>Indication of a moderate battery (dial tone on the line):</b></p> <ul style="list-style-type: none"> <li>✓ Voltage is present in both the DC and AC signature area.</li> <li>✓ Numeric values may have #, -, \$, or * present.</li> </ul> <p><b>Action(s):</b> Issue a trouble ticket for a moderate battery to the ILEC.</p>
<p><b>Indication of electronics on the loop:</b></p> <ul style="list-style-type: none"> <li>✓ In the DC KOHMS T-R row, a numeric value of #116 - #123 is present.</li> <li>✓ In the AC KOHMS T-R row, a numeric value is present.</li> <li>✓ Ringers show YES.</li> <li>✓ Terminated Length will be between .125KF and 1.2 KF.</li> </ul> <p><b>Action(s):</b> For IDSL, check for errors on the DSLAM. If errors are present, issue an ILEC TT. If ILEC reports NTF, set an MPOE meet. For A/SDSL open an ILEC TT to remove Electronics.</p>	<p><b>Indication of a hard short on the loop and lack of continuity:</b></p> <ul style="list-style-type: none"> <li>✓ In the DC KOHMS T-R row, a numeric value with an * is present (i.e. *3.76).</li> <li>✓ In the DC KOHMS R-G row, a numeric value may be present.</li> <li>✓ There are no values present in the CAP column.</li> <li>✓ There is no value in Unbalance %.</li> <li>✓ There is no value in Length.</li> </ul> <p><b>Action(s):</b> Open an ILEC TT to fix a short on the line.</p>	<p><b>Indication of load coils on the loop:</b></p> <ul style="list-style-type: none"> <li>✓ Numeric values present between 85.0 and 89.9 in the Load area.</li> <li>✓ The first numeric value is approximately 3KF from the CO, each additional value is approximately 6KF from the previous value (i.e. 3.09, 5.85, 6.28, 8.78). The reason for this is load coils are placed by the ILEC at 6KF increments.</li> </ul> <p><b>Action(s):</b> Open an ILEC TT to remove load coils.</p>
<p><b>Indication of an ADTRAN repeater on the loop:</b></p> <ul style="list-style-type: none"> <li>✓ In the DC KOHMS T-R row, a numeric value of #116 - #123 is present.</li> <li>✓ In the AC KOHMS T-R row, a numeric value is present.</li> <li>✓ Ringers show YES.</li> <li>✓ Terminated Length will be between .125KF and 1.2 KF.</li> <li>✓ Load area is also blank.</li> </ul> <p><b>Action(s):</b> If a field technician is on site, request the ADTRAN light status. Otherwise, ask the end user if they have access to the Adtran box and can check it. If not, dispatch a Covad Tech. To troubleshoot the problem.</p>	<p><b>Indication of an ADTRAN TRU in the field, but no ADTRAN TRU in the Central Office:</b></p> <ul style="list-style-type: none"> <li>✓ In the DC KOHMS T-R row, a numeric value with an * is present (i.e. *11.2).</li> <li>✓ In the DC KOHMS, T-G row, a numeric value with a # is present (i.e. #289).</li> <li>✓ There is no value for Unbalance %.</li> <li>✓ There is no value for Length.</li> </ul> <p><b>Action(s):</b> ✓ For A/SDSL, open an ILEC trouble ticket for a short on the line and to remove electronics. ✓ For IDSL, open an ILEC trouble ticket to check electronics and/or wiring in the Central Office.</p>	<p><b>Indication of an Unbalanced loop:</b></p> <ul style="list-style-type: none"> <li>✓ Unbalance value is greater than 5%.</li> </ul> <p><b>Note:</b> If unbalance is greater than 2%, Covad needs to provide justification to the ILEC as to why an ILEC TT is necessary.</p> <p><b>Action(s):</b> If a field technician is on site, have them determine the cause of the unbalance. If a field technician is not present, open an ILEC TT for an unbalanced loop.</p>
<p><b>Indication of Pair Gain on the loop:</b></p> <ul style="list-style-type: none"> <li>✓ In the DC KOHMS T-R row, a numeric value of #116 - #123 is present.</li> <li>✓ In the AC KOHMS T-R row, a numeric value is present.</li> <li>✓ Ringers show YES.</li> <li>✓ Terminated Length will be between .125KF and 1.2 KF.</li> <li>✓ Load area values will resemble: 88 358 2780 9999 9999</li> </ul> <p><b>Action(s):</b> Check for other problems (DSLAM errors).</p>	<p><b>Indication a voice chip or a half ringer:</b></p> <ul style="list-style-type: none"> <li>✓ In the DC KOHMS T-R row, a numeric value with an * is present (i.e. *14.2).</li> <li>✓ In the AC KOHMS T-R row, a numeric value is present.</li> <li>✓ Ringers show YES.</li> <li>✓ Terminated Length is excessive (between 60KF - 70+KF) when a loop test is run with the CPE connected.</li> <li>✓ Terminated Length reflects actual loop length when a loop test is run with the CPE disconnected.</li> </ul> <p><b>Action(s):</b> Open an ILEC TT to remove Voice Chip.</p>	<p><b>Indication of high Metallic noise:</b></p> <ul style="list-style-type: none"> <li>✓ Metallic noise should not exceed 25 if the loop is &lt;10KF or 20 if the loop is &gt;10KF.</li> </ul> <p><b>Action(s):</b> If a Covad technician is on site, have them disconnect the end user line at the MPOE and run another loop test to determine if the problem is on the inside wiring. If the loop test fails and there is no field technician available, open an ILEC TT.</p>

1200  
1.2 KFT (or under)  
is in CO  
IDSL

0-15 ADSL/SDSL  
to 18-IDSL  
w/o electronic  
0-40-IDSL  
with electronic