

# Completion Testing Acceptable Parameters

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## Acceptable parameters For Voice Grade & Data Loops

Difficult or intermittent troubles may require the shared line or the UNE loop to be stripped of data and loop tests taken to assure the loop is within acceptable parameters.

Acceptable voice loop parameters are as follows:

**CIRCUIT LOSS**- Not Greater Than - 8.5 dbm @ 1KHz

**SPREAD** - Not Greater Than 8.0 db (non-loaded)

**CIRCUIT NOISE** - Not Greater Than 20 dbrnc

**CIRCUIT INFLUENCE** - Not Greater Than 80 dbrnc

**CIRCUIT BALANCE** - Not Less Than 60 db

The electrical parameter requirements for line sharing are the same as for a voice loop. If the requirements for the CLEC data are more stringent, the CLEC may choose to change to a conditioned digital data loop.

## Loop Limitations For Voice Grade & Data Loops

- No resistive faults greater than 3 Meg Ohm, tip/ring to ground or tip to ring short.
- Cable pair must be mutually balanced
- Loop resistance of 1300 ohms or less

### Additional requirements when the Loop is used for Data or Line Sharing

- Length of 18 Kf or less including bridge tap (CLEC may request non-standard Data Loop over 18 KF)
- Total bridge tap length may not exceed 2.5 Kf. No single bridge tap may exceed 2.0 Kf.
- The loop does not include load coils, build-out capacitors, or pair gain devices

## Milliamp Standard

- The milliamperes ranges from 23-20, with 20 being the lowest acceptable milliamperes reading at the customer site.
- The milliamperes at the MDF should be 50-55 ma.
- The voltage at the MDF should be 48-52 volts.

## Completion Testing on Field Visits - Service Orders

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### Completion requirements

When a service order is closed in the handheld there should always be closing comments. The comments should include such items as the tag and label location, cooperative test results if data, and any other pertinent comments that would eliminate the unnecessary re-dispatches as a result of questions from the CLEC.

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### Completion tests

The following completion tests should be performed on all service orders requiring a field visit when the CLEC TN is known. These tests are usually performed from the NID. The technician further isolates tests with unacceptable readings/results.

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Test	Resale	Unbundled Voice Loop	Unbundled Data Loop	Unbundled Port
Loop Current	•	(1)		•
Noise Level	•	•		•
Power Influence	•	•		•
Continuity (short, ground, cross, foreign voltage)	•	•	•	•
Ground Resistance	•	•		•
Line Balance	•	•	•	•
Dial Tone/Break Dial Tone	•			
Dial Tone/Break Dial Tone at CLEC Block and Pin		(2)		•
Revert Ring	•	(3)		•
Circuit Loss	•	•		•
Load Presence			•	

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## Completion Testing on Field Visits - Service Orders, Continued

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### Notes

1. Even though battery is provided by the CLEC, the field technician should complete loop current tests. This ensures that the loop provided by Sprint supports the minimum loop current requirements of 20 milliamperes. If loop current is not present or is below minimum standards, the voltage should be checked at the frame. If the MA/voltage at the frame is acceptable, normal procedures should be followed for completion of the service order. If the MA/voltage at the frame is not acceptable, the Technician will call the NCPC for documentation on the order. Close out the service order task with the comment of “Low MA/voltage at CLEC Block & Pin” in the HHT.
  2. Dial Tone/Break Dial Tone Test should be performed. If there is no dial tone, or can't break dial tone (after isolation testing) the Technician will call the NCPC to contact the CLEC for either a new block and pin or to have the CLEC provide the dial tone. If neither can be obtained in a reasonable length of time, (10 minutes or less), the NCPC will note the order. The Technician will close out the service order with the comment “No dial tone from CLEC at Block & Pin” in the HHT if the line fails this test.
  3. The ability to revert ring is negotiated with each CLEC. It is Sprint's position that technicians require the ability to revert ring in order to complete installations, identify lines and troubleshoot existing services.
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### Testing standards

These tests are performed to confirm that the equipment meets the existing standards acceptable for installation found in the *Sprint System Practices Manual for Outside Plant Maintenance*.

The tests must comply with the Installation for Station Protection, Drop Installation, Grounding and Drop Attachments (460-100-xxx, 462-300-xxx).

Installations that do not meet the standards should be brought up to standard. Sprint does not test service orders for which no field visit is made.