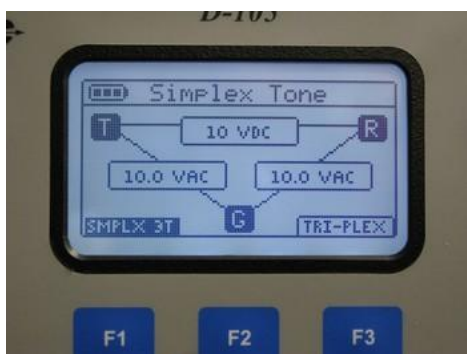


What is TriPlex Tone?

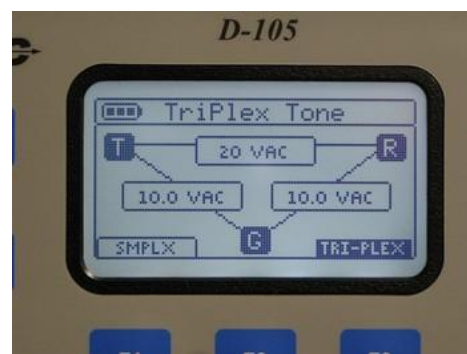
TriPlex tone is a special tone developed by AALogic to help reduce adjacent tone bleed-over as is common in cables with poor shielding and bonding. This technique has been incorporated in our D105, ATV-25, and TriTone Generators. TriPlex is intended to be used where a cable is already out of service and the technician has difficulty determining the correct pair due to severe bleed-over. While TriPlex tone minimizes bleed-over on adjacent pairs, it is not non-intrusive. Always use Simplex whenever possible.

Since TriPlex reduces bleed-over, the method of locating a pair is much different. In large bundles it is best to start the tone search with Simplex to identify the group, then switch to TriPlex to pinpoint the pair. A conventional probe will work in locating TriPlex as long as the twist is not tight or there is some separation of the Tip and Ring. In most cases when using the D105 along with the DAP125 probe the pair can be identified without the need to short the pair.

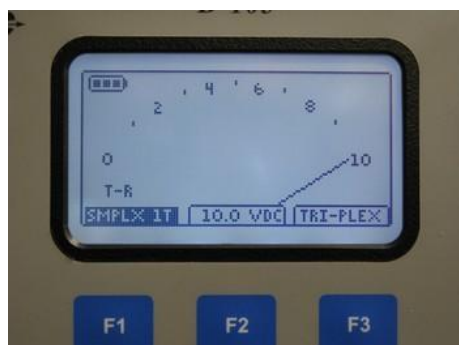
D105 Screen Displays in Simplex and TriPlex Modes



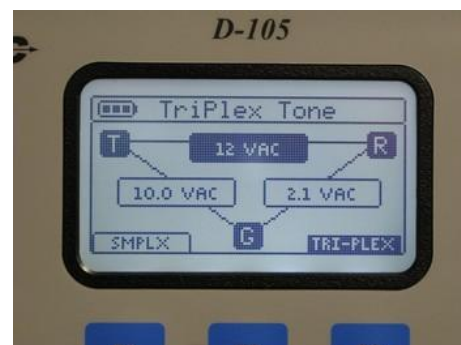
Simplex Tone, 3Terminal Measurement



TriPlex 3T doubles tone output level



Simplex Tone, 1 Terminal displaying TR Volts



TriPlex Tone, with Ring Ground

Regardless of tone method the D105 can detect a short or ground on the pair while sending tone.

An artifact, and advantage, of TriPlex tone is the virtual doubling of output tone amplitudes.