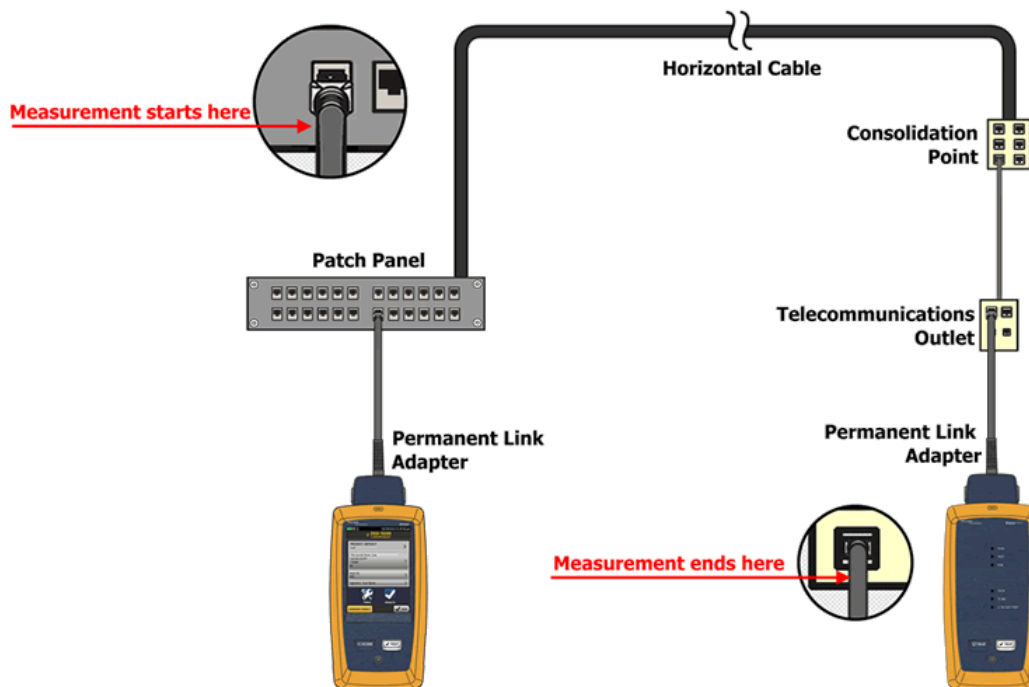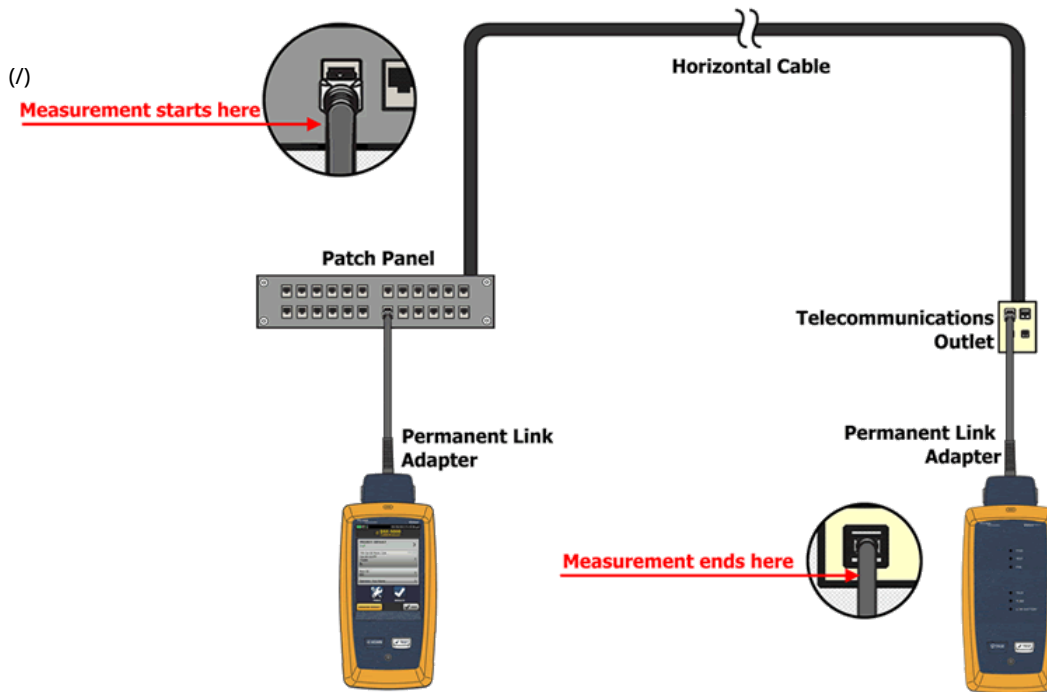# Permanent Link definition - DSX CableAnalyzer

Often used by installers to prove the fixed portion of the cabling system (excluding user cords) meets the requirements of ANSI/TIA-568-C.2 or ISO/IEC 11801:2011. The cabling vendor offering the warranty will require this. If you see an installer making these measurements using Channel Adapters (/knowledge-base/dsx-cableanalyzer-series/channel-definition-dsx-cableanalyzer), you may wish to stop them and ask why they are not making Permanent Link measurements.

The measurement includes the RJ45 plug at the end of the test lead, but does not include the cable portion of the test lead or connection to the test equipment. In the case of the DSX-PLA004 Permanent Link adapter, it is the only Permanent Link adapter in the industry where the RJ45 plug is guaranteed to meet the NEXT, FEXT and Return Loss requirements of the above standards. The cable portion of the test lead is removed from the measurement using calibration constants stored in the adapter.
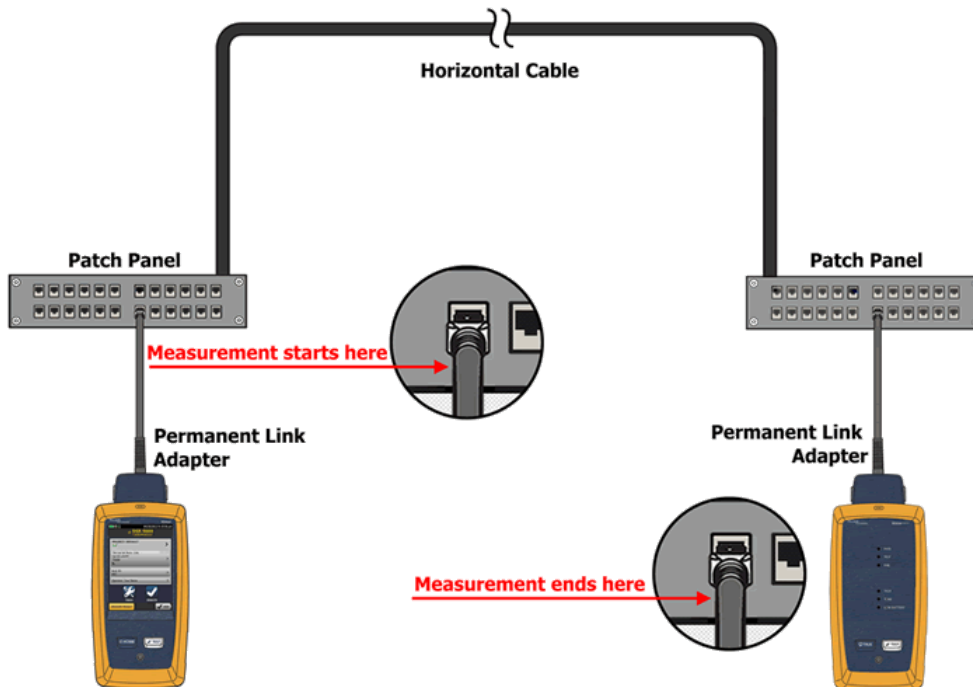
Three connector permanent link definition:

Two connector permanent link definition:

(/)

Horizontal Cable

Measurement starts here

Patch Panel

Telecommunications Outlet

Permanent Link Adapter

Permanent Link Adapter

Measurement ends here

Data center two connector permanent link definition:

Horizontal Cable

Patch Panel

Patch Panel

Measurement starts here

Permanent Link Adapter

Permanent Link Adapter

Measurement ends here

MPTL Links: An optional CP (consolidation point) is permitted in MPTL.