

Universal Permanent Link Adapters

The world's most accurate Permanent Link Test Solution

The DSP and OMNI Universal Permanent Link Interface Adapters combine superior performance and repeatability while eliminating false failures and delivering more passes. The DSP and OMNI Universal Permanent Link Adapter Kits move the baseline accuracy of Fluke Networks' DSP-4000 Series and OMNIScanner® Series to the very end of the test adapter, delivering exceptional test results and standards compliance for field testing of twisted-pair cabling installations.

New Universal Permanent Link Interface Adapter offers:

- A Cat 6 certification solution that delivers the highest performance available to deliver the highest confidence in PASS results.
- Installation time savings by eliminating costly false FAIL results due to field handling of twisted-pair tester patch cables.
- Superior Return Loss accuracy and repeatability that far exceeds TIA/EIA-568-B and ISO/IEC 11801 requirements.
- DSP-PM06, the first centered Cat 6 personality module to verify Cat 6 link and component compliance
- A wide selection of personality modules for testing legacy and IDC-type systems

Do you know the weakest link between you and a PASS?

Unknown to most installers, the tester's adapter interface cable may be the weakest link when testing. Conventional adapter cords, even high-quality adapter cables with shielded pairs, may cause many false failures in the field. Coiling, uncoiling, and storing under rough field conditions cause slow, invisible degradation with time and contribute to Return Loss, which is often the cause of a FAIL. False failures add unnecessary hours of troubleshooting and repeat testing. For less than the cost of one failed link, Fluke Networks' Universal Permanent Link Interface Adapter boosts your PASS results time and again.

New, proprietary technology ensures accuracy

The new Universal Permanent Link Interface Adapter design delivers superior accuracy and stability required for measuring Return Loss, while increasing the accuracy of all other measured test parameters. Moving the baseline accuracy of the DSP-4000 Series Digital CableAnalyzer™ and the OMNIScanner® Series to the end of the Universal Permanent Link Interface Adapter, eliminates the effects contributing to FAIL results associated with any twisted-pair tester adapter. Your PASS is a real PASS. If you FAIL, you can be sure that it is not your tester or the adapter.



Modularity at the end of the adapter

New Personality Modules at the end of the Universal Permanent

Link Interface Adapter ensure that the connection between the adapter and the link-under-test yields optimum NEXT performance, and more PASSes. These modules feature a compact, lightweight design that allows replacement without buying a complete manufacturer-specific adapter.

The new PM06 Personality Module is the cabling industry's first centered, shielded test plug designed to certify link as well as connecting hardware compliance to the CAT 6 standard. No other solution allows you to see the true performance of the cabling system to achieve an "open" cabling system.

Automated calibration for performance far beyond Level III

Fluke Networks offers an optional calibration kit that enables you to significantly boost the actual tester performance. The exceptional Return Loss measurement accuracy of the DSP-LIA101S and OMNI-LIA101S is 2.5 dB out-of-the-box, which is superior to Level III, and is pushed by the calibration to an unprecedented Return Loss accuracy of just 1 dB. This simple field calibration process is completely automated and supported in the software included in every DSP-4000 Series. To maintain this performance, you need to calibrate only twice a year.

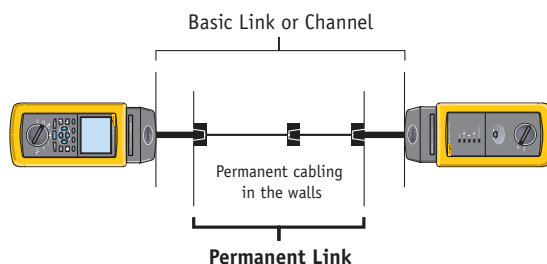
Comply with standards to win more jobs

Don't lose out on jobs that require your installations to be TIA/EIA-568-B or ISO/IEC 11801 compliant. Basic Link is out, Permanent Link is in (see **Figure 1**). You can now test the Permanent Link as defined by standards organizations with the highest level of accuracy, repeatability and confidence.

Keeping our eye on the future

Fluke Networks is committed to providing innovative Network SuperVision Solutions™. From innovative technology and tools that comply with new industry standards, to responsive service and training to help you grow your business, Fluke Networks will help you keep pace in today's fast moving, networked world by keeping our eye on the future for you. That's Network SuperVision™. That's Fluke Networks' promise to you.

Figure 1. Permanent Link Test Configuration compared to Basic Link or Channel



Ordering Information

Model	Items Included
DSP-LIA101S	Set of Universal Permanent Link Adapters
	Includes two interface adapters for the DSP-4000 Series and one set (2) of Cat 6 PM06 Personality Modules to test Cat 6, Cat 5e, Cat 5 and Cat 3 links.
DSP-LIA100S	Set of Universal Permanent Link Adapters
	Includes two interface adapters for the DSP-4000 Series without any personality modules. Select the personality module(s) required for the test job at hand (*).
DSP-LIA101	Universal Permanent Link Adapter
	Includes one replacement adapter for the DSP-4000 Series without any personality modules.*
OMNI-LIA101S	Set of Universal Permanent Link Adapters
	Includes two interface adapters for the OMNIScanner2 testers and one set (2) of Cat 6 PM06 Personality Modules to test Cat 6, Cat 5e, Cat 5 and Cat 3 links.
OMNI-LIA100S	Set of Universal Permanent Link Adapters
	Includes two interface adapters for the OMNIScanner2 testers without any personality modules. Select the personality module(s) required for the test job at hand (*).
OMNI-LIA101	Universal Permanent Link Adapter
	Includes one replacement adapter for the OMNIScanner 2 testers without any personality modules.*
DSP-PLCAL	Universal Permanent Link Calibration Kit
	Includes an assembly containing three calibration artifacts (open, short and precise 100 Ω load). This kit is used to calibrate the PL Adapter with the DSP-4000 Series testers to obtain laboratory accuracy for the Return Loss measurement. The through-calibration connection provides a quick and simple means to verify the accuracy and performance of the testers with adapter.
DSP-PM06	Cat 6 Centered Personality Module
	PM06 is the first centered, shielded plug to test Cat 6 compliance and interoperability. This global test solution supports all UTP, FTP and ScTP cabling systems. (Cat 3, Cat, 5, Cat 5e and Cat 6). Approved by major connectivity manufacturers, for complete list go to www.flukenetworks.com/pmmatrix
DSP-PMxx	Personality Modules for IDC & Legacy Systems
	A wide selection of personality modules are available for IDC-type connectors as well as legacy systems. For complete listing, go to www.flukenetworks.com/legacypms
(*) Build your own Universal Permanent Link Adapter set: Choose the Personality Module that fits your testing requirements or that is recommended by the premise wiring manufacturer.	

