

Certification Tests of the AMP Communication Outlet System according to the latest draft of ISO/IEC 11801 Class E using Acterna Handheld Tester LT8600 or LT8600T

Today, when testing installed structured cabling systems to the requirements of ISO/IEC 11801 Class E or EN 50173 Class E (up to 250 MHz), the results are often dubious because of unsuitable equipment or wrong components.

This document provides guidelines and a checklist for testing AMP NETCONNECT Class E systems with Acterna handheld testers.

For AMP NETCONNECT systems, no vendor specific measurement adapters or software solutions are required for the testers. All High Performance Category 5 components have to be testable according to our company specifications only by using standard components which adhere strictly to international, regional and national standards.

These stringent requirements are especially applied to the 250 MHz optimised components as for example the AMP Communications Outlet System.



Figure 1: LT8600T

Installed Cabling:

A Class E link with the AMP Communication Outlet System connectivity requires PiMF cable; 300 MHz (AMP Part No. 57892-1), 600 MHz (AMP Part No. 57893-1) or an equivalent. The maximum link length must not exceed 90 metres in accordance with ISO 11801.

Patch Panel and Outlets:

All kind of patch panels and telecommunications outlets from the AMP Communication Outlet System range can be applied. For correct installation please see the corresponding instruction sheets.



AMP Info

28.06.01

Class E - Link Tests with Acterna LT8600 and LT8600T

Inserts for test measurements:

Testing must be done with single inserts in order to ensure that all the relevant parameters in the latest draft of ISO/IEC 11801 (PSNEXT, PSELFEXT, PSACR etc.) are tested. This insert is Part No. 284584-1 and is for applications up to 250 MHz. Please note that our inserts are designed for 200 mating cycles. After this, we recommend that you use a new one.

Handheld Testers:

These guidelines cover Acterna LT8600 or LT8600T testers. The correct software version 2.120 must be loaded. This provides the ability to perform full standards compliant link tests. It can be downloaded free of charge (see: <http://www.acterna.com/>).

Two Test Adapters (1 pair Acterna Cat 5(E) / Cat 6 Adapter, Part No. B6ACTERNA001 – former LT8Basic) are required to perform the test.

The testers must be set to Channel Link Test (<Twisted Pair Chan>-<ISO E STP Chan>) for screened cable in order the test can be run. The stored parameters comply with the latest draft of ISO/IEC 11801 2nd edition. Careful use of the Channel Adapter allows for 750 test cycles.

Checklist:

| | | |
|-------------------|---------------------------------------|--------|
| Installed System: | AMP Communications Outlet System | () OK |
| Termination: | In accordance with Instruction sheets | () OK |
| Installed Cable: | PiMF Cable 300 MHz or higher | () OK |
| Test Insert: | Single Insert Part No. 284584-1 | () OK |
| Tester: | LT8600 or LT8600T | () OK |
| Test Adapter: | B6ACTERNA001 / LT8BASIC | () OK |
| Software: | Version 2.120 or higher | () OK |
| Test Setting: | <Twisted Pair Chan>-<ISO E STP Chan> | () OK |

Guaranteed mating cycles:

| | |
|----------------|-----|
| Test Adapter: | 750 |
| AMP CO Insert: | 200 |

Summary:

Permanent Link Tests for the AMP Communication Outlet System with High Performance inserts (250 MHz) according to the latest draft of ISO/IEC 11801 2nd Edition Link Class E (250 MHz) are performed with standard components only! No vendor specific adapters or software solutions are required and therefore the test method is very cost effective and reliable.

Contact:

<http://www.acterna.com/>



Notice:

This test procedure considers the AMP CO System. The same document is also available for the new AMP CO System PLUS with the AMP Shielded Edge Connector MARK II

For additional information or in case of questions please contact your local AMP NETCONNECT Sales representative.

Your NETCONNECT Team.