

### Certification Tests of the AMP Communication Outlet System **PLUS** according to the latest draft of ISO/IEC 11801 Class E using Agilent Handheld Tester WireScope 350



Figure 1: Agilent WireScope 350

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 check-list for testing AMP NETCONNECT Class E systems with Agilent handheld testers.

For AMP NETCONNECT systems, no vendor specific measurement adapters or software solutions are required for the testers. All our Category 5, 6 and 7 components have to be testable according to our company specifications which adhere strictly to international, regional and national standards.

These stringent requirements are also applied to the new AMP Communications Outlet System **PLUS** with Screened Edge Connector Mark II

#### Installed Cabling:

A Class E link with the AMP Communication Outlet System **PLUS** 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:

Specific patch panels and telecommunications outlets from the AMP Communication Outlet System **PLUS** range are chosen. For correct installation please see the corresponding instruction sheets.



## Class E - Permanent Link Tests with Agilent WireScope 350

### 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. 336548-1 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 the Agilent Technologies WireScope 350 testers. The correct software version 2.1 or higher must be loaded. This provides the ability to perform full standards compliant permanent link tests. It can be downloaded free of charge (see: <http://www.wirescope.com/> ). Two test adapters (1 pair Agilent Cat.6 Link Adapter, Part No. N2604-101) are required in order to test a permanent link. The testers must be set to Permanent Link Test (<Class E>-<ISO/IEC 11801 Ed2 Draft>-<Link>) for screened cable so that the test can be run. The stored parameters comply with the latest draft of ISO/IEC 11801 2<sup>nd</sup> edition. Careful use of the adapter allows for 750 test cycles.

### Checklist:

Installed System:	AMP Communications Outlet System <b><i>PLUS</i></b>	<input type="checkbox"/> OK
Termination:	In accordance with Instruction sheets	<input type="checkbox"/> OK
Installed Cable:	PiMF Cable 300 MHz or higher	<input type="checkbox"/> OK
Test Insert:	Single Insert Part No. 336548-1	<input type="checkbox"/> OK
Tester:	WireScope 350 N2600A-200	<input type="checkbox"/> OK
Test Adapter:	N2604-101	<input type="checkbox"/> OK
Software:	Version 2.1 or higher	<input type="checkbox"/> OK
Test Setting:	<Class E>-<ISO/IEC 11801 Ed2 Draft>-<Link>	<input type="checkbox"/> OK

### Guaranteed mating cycles:

Test Adapter:	750
AMP CO Insert:	200



# AMP Info

28.06.01

## Class E - Permanent Link Tests with Agilent WireScope 350

### Summary:

Permanent Link Tests for the AMP Communication Outlet System **PLUS** with Category 6 inserts (Category 6 / 250 MHz) according to the latest draft of ISO/IEC 11801 2<sup>nd</sup> 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.wirescope.com/>



## Agilent Technologies

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

Your NETCONNECT Team.