

Tester Guidelines Copper

June 2015

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Testing guidelines - General

- Only use test equipment that has valid annual calibration certification
- Make sure to fully charge the batteries before going to site
- Install the minimum firmware version specified in our field testing procedure
- Use the correct test heads
- Field calibrate the tester as required during the testing phase
- Configure the tester with the correct limits
- Verify the correct testing method
- Save test results using a unique cable ID
- Monitor test results during testing
- Don't use worn or damaged test leads

The listed documents are available
by visiting your country site from
www.nexans.com/LANsystems

General Installation Guide

Field Testing Procedures

Testing procedure LANmark-7A

Testing Procedure LANmark-7

Testing Procedure LANmark-6A

Testing Procedure LANmark-6 10G

Specific issues for Copper links:

- Select the correct NVP value (NVP values are printed on the cables)
- Test the shield contact in screened systems
- Use only LANmark patch cords for Channel testing
- Include graphical information if possible (i.e. save results with full plot information)

Agilent Wiroscope Pro *.sdf

using Scopedata Pro II

Fluke DTX-LT/1200/1800 *.flw

using Fluke Linkware

Fluke DSX-5000 *.flw

using Fluke Linkware

Ideal LanTEK 6/6A/7/7G *.sdf

using Ideal DataCENTER

Ideal LanTEK II 350/500/1000 *.sdf

using Ideal DataCENTER

JDSU NGC-4500 Certifier40G *.prx

using Psiber Data eXport

PSIBER Data Wirexpert 4500 *.prx

using Psiber Data eXport

It is preferable to save the test results with plots if they are available on your tester as re-certification of graphical test result is only possible when plots are saved.

Certified Tester Overview		LANmark-5	LANmark-6	LANmark-6 10G	LANmark-6A	LANmark-7	LANmark-7A
AGILENT							
Wireshark Pro	PL	●	●	●	●	●	×
	CH	●	●	●	●	●	×
FLUKE NETWORKS							
DTX-LT/1200	PL	●	●	●	●	×	×
	CH	●	●	●	●	×	×
DTX-1800	PL	●	●	●	●	●	×
	CH	●	●	●	●	●	×
DSX-5000	PL	●	●	●	●	×	×
	CH	●	●	●	●	●	●
IDEAL INDUSTRIES							
LANTEK 6	PL	●	●	×	×	×	×
	CH	●	●	×	×	×	×
LANTEK 6A	PL	●	●	●	●	×	×
	CH	●	●	●	●	×	×
LANTEK 7	PL	●	●	●	●	●	×
	CH	●	●	●	●	●	×
LANTEK II 350	PL	●	●	×	×	×	×
	CH	●	●	×	×	×	×
LANTEK II 500	PL	●	●	●	●	×	×
	CH	●	●	●	●	×	×
LANTEK II 1000/7G	PL	●	●	●	●	●	×
	CH	●	●	●	●	●	●
JDSU							
NGC-4500 Certifier40G	PL	●	●	●	●	×	×
	CH	●	●	●	●	●	●
PSIBER DATA							
WIREXPRT 4500	PL	●	●	●	●	×	×
	CH	●	●	●	●	●	●

LANmark-5

- **ISO/IEC 11801 CLASS D**
- CENELEC EN 50173 CLASS D

LANmark-6

- **ISO/IEC 11801 CLASS E**
- CENELEC EN 50173 CLASS E

LANmark-6 10G

- ISO/IEC 11801 CLASS EA
- CENELEC EN 50173 CLASS EA
- TIA/EIA 568C CAT 6A
- ISO 11801 TR 24750
- TIA/EIA TSB-155

LANmark-6A

- **ISO/IEC 11801 CLASS EA**
- CENELEC EN 50173 CLASS EA
- TIA/EIA 568C CAT 6A

LANmark-7

- **ISO/IEC 11801 CLASS F**
- CENELEC EN 50173 CLASS F

LANmark-7A

- **ISO/IEC 11801 CLASS FA**
- CENELEC EN 50173 CLASS FA

Options in Bold are recommended/preferred

NVP guideline

To support the correct set-up of hand held analysers for installation testing

*These values are typical. Always use the actual value which can be found in the cable's print legend

Solid Cable Type	NVP*
Essential-5 U/UTP	69
Essential-5 F/UTP	73
Essential-5 SF/UTP	73
Essential-6 U/UTP	69
LANmark-5 U/UTP	69
LANmark-5 F1/UTP	73
LANmark-6 U/UTP	69
LANmark-6 F1/UTP	70
LANmark-6 F2/UTP	70
LANmark-6 SF/UTP	70
LANmark-6A F1/UTP	70
LANmark-6A F/FTP	82
LANmark-6 10G DC50 U/FTP	75
LANmark-7 S/FTP	82
LANmark-7A 1000MHz S/FTP	82
LANmark-7A 1200MHz S/FTP	82

Permanent Link adapters

- N2644A-101 Category 6A Universal Permanent Link SmartProbes
 - Essential-5/6
 - LANmark-5/6/6 10G/6A
- N2644A-106 Nexans Category 7 Link SmartProbes
Warranty Limited to 600MHz!
 - LANmark-7/7A



Channel adapters

- N2644A-100 Category 6A Universal Channel SmartProbes Using GG45 8C Measurement Cord Category 7A Screened LSZH 2m Orange (N900.67A)
 - Essential-5/6
 - LANmark-5 /6 /6 10G /6A
- N2644A-107 GG45 & ARJ45 Class F Channel SmartProbe
Warranty Limited to 600MHz!
 - LANmark-7/7A

Permanent Link adapters

- DTX-PLA001 + PM06
 - Essential-5 /6
 - LANmark-5 /6 /6 10G /6A
- DTX-PLA002
 - Essential-5 /6
 - LANmark-5 /6 /6 10G /6A
- DTX-PLA012 - **Warranty Limited to 600MHz!**
 - LANmark-7/7A

Channel adapters

- DTX-CHA001
 - Essential-5/6
 - LANmark-5 /6
- DTX-CHA002
 - Essential-5/6
 - LANmark-5 /6
 - LANmark-5 /6 /6 10G /6A
- DTX-CHA012 -
Using GG45 8C Measurement Cord Category 7A
Screened LSZH 2m Orange (N900.67A)
Warranty Limited to 600MHz!
 - LANmark-7/7A



Permanent Link adapters

- DSX-PLA004S
 - Essential-5/6
 - LANmark-5/6
 - LANmark-6 10G/6A



Channel adapters

- DSX-CHA004S
 - Essential-5/6
 - LANmark-5 /6
 - LANmark-6 10G /6A
- DSX-CHA012S -
Using GG45 8C Measurement Cord Category 7A
Screened LSZH 2m Orange (N900.67A)
 - LANmark-7/7A

Permanent Link adapters

- 0012-00-0629 Category 6/Class E Universal Channel/
Permanent Link Adapter
 - Essential-5/6
 - LANmark-5/6
- 0012-00-0656 Category 6A/Class EA Universal Channel/
Permanent Link Adapter
 - Essential-5/6
 - LANmark-5 /6 /6 10G /6A



Channel adapters

- 0012-00-0629 Category 6/Class E Universal Channel/
Permanent Link Adapter
 - Essential-5/6
 - LANmark-5/6
- 0012-00-0656 Category 6A/Class EA Universal Channel/
Permanent Link Adapter
 - Essential-5/6
 - LANmark-5 /6 /6 10G /6A
- 0012-00-00667 (GG45 CLASS FA Channel Adapter)
LANTEKGG45KIT
Using GG45 8C Measurement Cord Category 7A
Screened LSZH 2m Orange (N900.67A)
 - LANmark-7/7A

Permanent Link adapters

- 0012-00-0629 Category 6/Class E Universal Channel/
Permanent Link Adapter
 - Essential-5/6
 - LANmark-5/6
- 0012-00-0656 Category 6A/Class EA Universal Channel/
Permanent Link Adapter
 - Essential-5/6
 - LANmark-5 /6 /6 10G /6A



Channel adapters

- 0012-00-0629 Category 6/Class E Universal Channel/
Permanent Link Adapter
 - Essential-5/6
 - LANmark-5/6
- 0012-00-0656 Category 6A/Class EA Universal Channel/
Permanent Link Adapter
 - Essential-5/6
 - LANmark-5 /6 /6 10G /6A

Permanent Link adapters

- WX_AD_6ALKIT2 (CAT 6A Permanent Link test Adapters)
 - Essential-5/6
 - LANmark-5 /6
 - LANmark-6 10G /6A



Channel adapters

- WX_AD_6ACH2 (CAT 6A Channel Adapters)
 - Essential-5/6
 - LANmark-5 /6
 - LANmark-6 10G /6A
- NGC4500GGARJCH2 (GG45 CLASS FA Channel Adapter)
Using GG45 8C Measurement Cord Category 7A
Screened LSZH 2m Orange (N900.67A)
 - LANmark-7 /7A


Permanent Link adapters

- WX_AD_6ALKIT2 (CAT 6A Permanent Link test Adapters)
 - Essential-5 /6
 - LANmark-5 /6
 - LANmark-6 10G /6A



Channel adapters

- WX_AD_6ACH2 (CAT 6A Channel Adapters)
 - Essential-5 /6
 - LANmark-5 /6
 - LANmark-6 10G /6A
- WX_AD_GGARJCH2 CLASS FA GG45 channel adapter
Using GG45 8C Measurement Cord Category 7A
Screened LSZH 2m Orange (N900.67A)
 - LANmark-7 /7A

Enjoy your day
at work! 



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