

Certificate of Calibration

Fluke Nederland B.V.

Certificate Number:	SA00998066	Date of Calibration:	04 Nov 2021
Receive Condition:	IN TOLERANCE	Date of Recalibration:	04 Nov 2022
Return Condition:	IN TOLERANCE	Place of Calibration:	Eindhoven
Manufacturer:	FLUKE NETWORKS	Temperature within:	(23.0 ± 3) °C
Model:	DSX-5000 INTL	Humidity within:	(45 ± 20) %rh
Serial Number:	20300207		
Description:	1 GHZ DSX CABLE ANALYZER		
Procedure:	Manual Procedure		

Customer: A-LAN TECHNOLOGIE SP. Z O.O. SP. K.
KRAKÓW

Customer Asset ID: -

RMA Number: 606274405

All measurements are traceable to national and/or international standards or have been derived by approved ratio techniques. When possible standards used for this calibration are ISO/IEC 17025 accredited calibrated.

This calibration is performed by a DEKRA certified lab for ISO 9001. This certificate may not be reproduced other than in full. Calibration certificates without signatures, either electronic or handwritten, are not valid.



Issue Date: 04 Nov 2021

Electronically signed

Authorized By

W.H.J. van Hulten

Certificate of Calibration

Certificate Number: SA00998066

Remarks

- The calibration status found in this certificate on the top of each results page must be interpreted as:
 - As Found : Data collected before the unit was adjusted and / or repaired
 - As Left : Data collected after the unit has been adjusted and / or repaired
 - Found / Left : Data collected without any adjustment and / or repair performed
- The calibration interval (due date) is the responsibility of the end user.
- According to the European norm 'Operation of electrical installations' NEN-EN 50110-1 release 2013 and the Dutch norm NEN 3140 release 2015 paragraph 5.102.12 through 5.102.16, a safety test is not required. Therefore not performed.
- Temperature conversions (if applicable) are performed according to ISO/IEC 60584:2013 for thermocouples, and ISO/IEC 60751:2008 for resistance temperature devices.

Standards and test-equipment used

Inventory No	Model	Serial No
WP2390	DSX-CALVERST	E000061

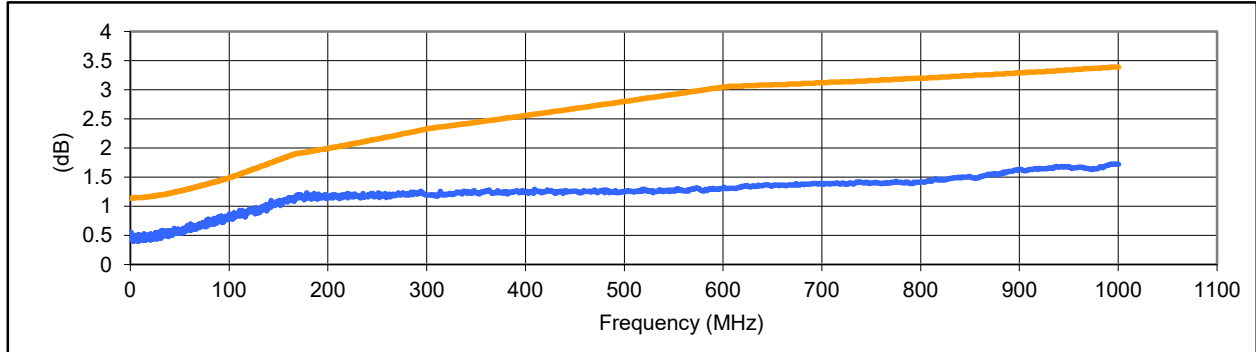
Found-Left Report

Model **DSX-5000 CAT 6A/CLASS Fa 1000MHz Copper Module**
 Serial Number **20300207**

Test date **4-Nov-21**
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NEXT

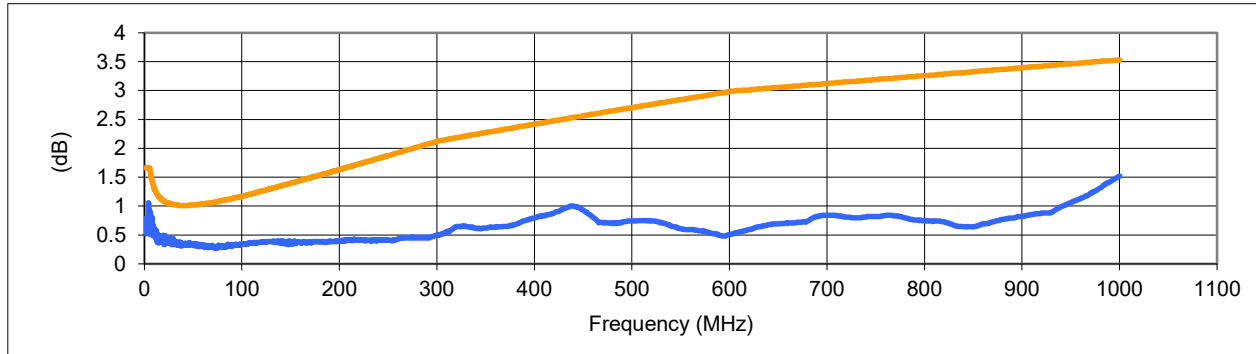
NEXT Artifact SN 2820137



Pass Worst margin: 0.590 at 1.13 MHz in pair 12-36. Worst accuracy at each frequency shown.

CDNEXT

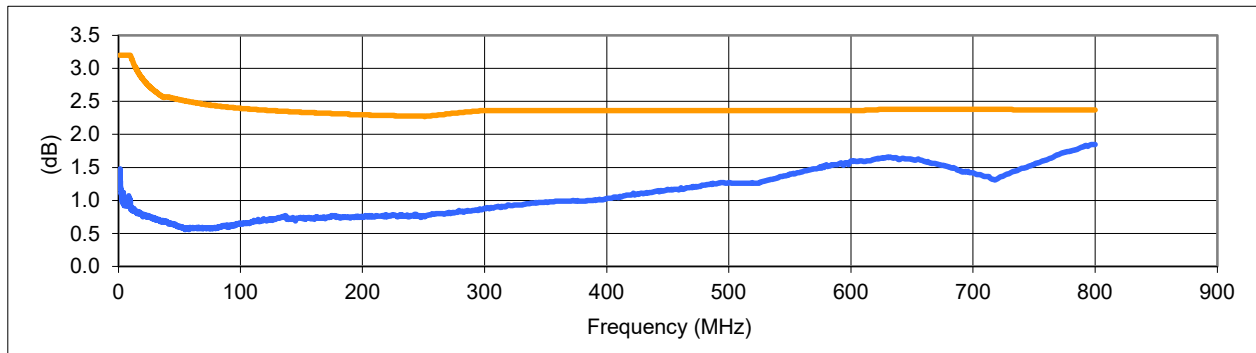
CDNEXT Artifact SN 2843465



Pass Worst margin: 0.580 at 21.5 MHz in pair 36-12. Worst accuracy at each frequency shown.

CMRL

CMDMRL Artifact SN 2856124



Pass Worst margin: 0.520 at 797 MHz in pair 45. Worst accuracy at each frequency shown.

■ Measured difference of DSX and reference laboratory equipment added to measurement accuracy of reference laboratory equipment. Worst accuracy at each frequency shown.

■ Corresponding measurement accuracy requirement for nominally compliant Level IV or Level 2G/VI field tester.

Found-Left Report

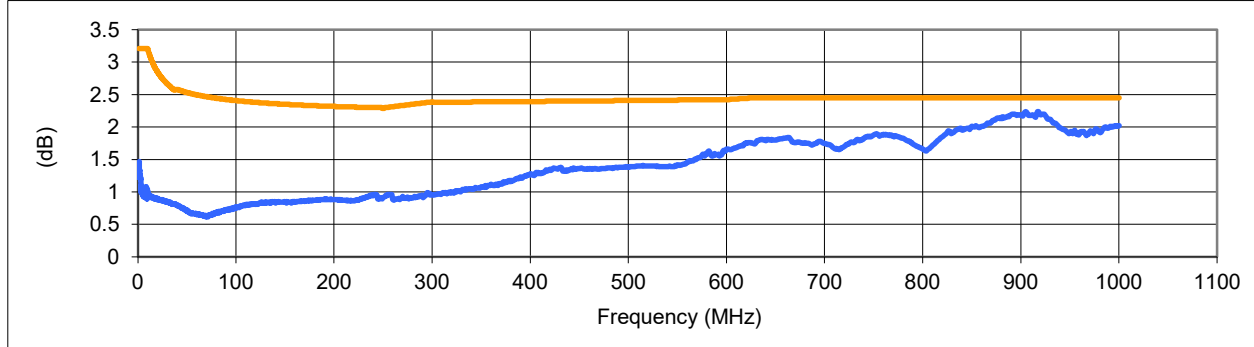
Model **DSX-5000 CAT 6A/CLASS Fa 1000MHz Copper Module**
 Serial Number **20300207**

Test date 4-Nov-21

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RL

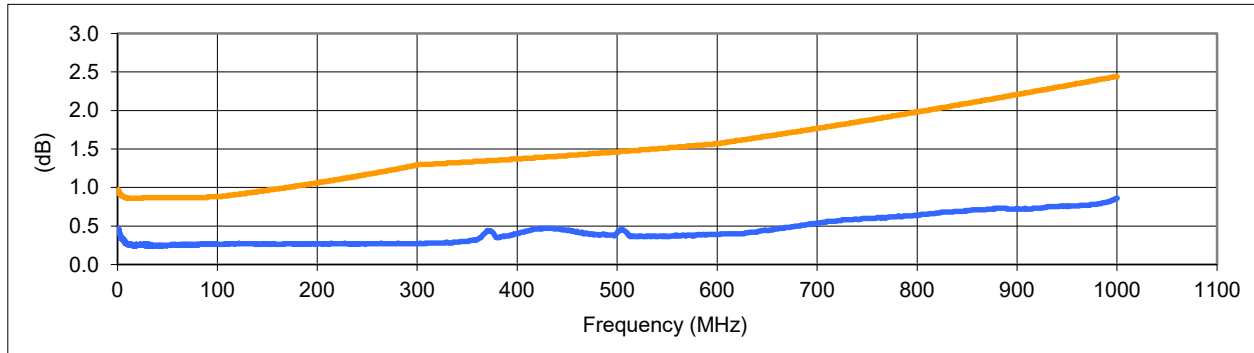
CMDMRL Artifact SN 2856124



Pass Worst margin: 0.210 at 905 MHz in pair 45. Worst accuracy at each frequency shown.

TCL

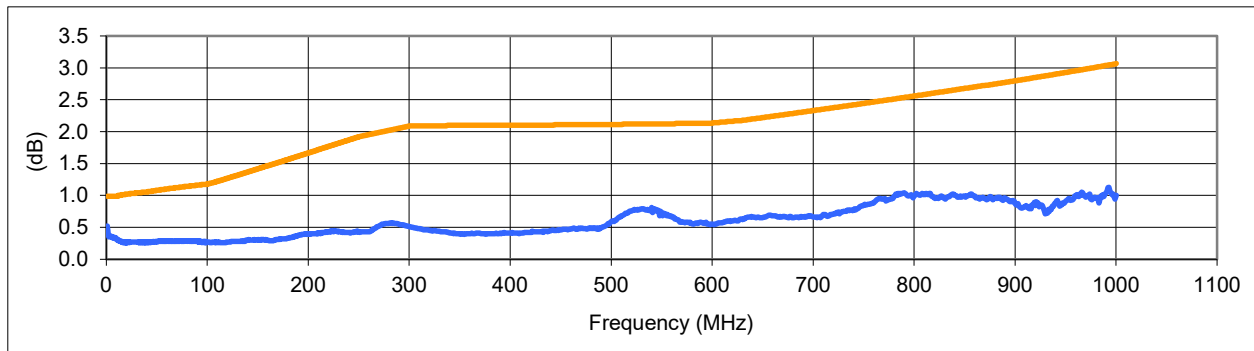
TCL Artifact SN 2856287



Pass Worst margin: 0.490 at 1.5 MHz in pair 36. Worst accuracy at each frequency shown.

IL

ILFEXT Artifact SN 2856321



Pass Worst margin: 0.470 at 1 MHz in pair 78. Worst accuracy at each frequency shown.

- Measured difference of DSX and reference laboratory equipment added to measurement accuracy of reference laboratory equipment. Worst accuracy at each frequency shown.
- Corresponding measurement accuracy requirement for nominally compliant Level IV or Level 2G/VI field tester.

Found-Left Report

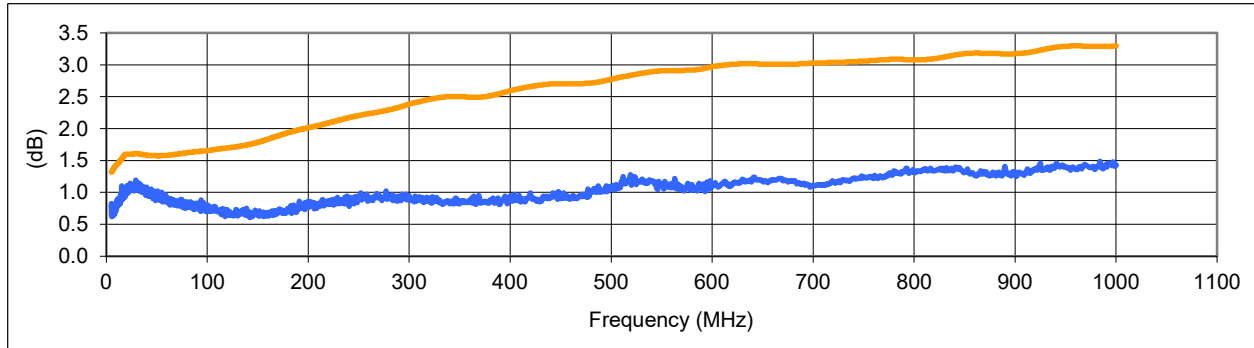
Model **DSX-5000 CAT 6A/CLASS Fa 1000MHz Copper Module**
 Serial Number **20300207**

Test date 4-Nov-21

FEXT

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ILFEXT Artifact SN 2856321



Pass Worst margin: 0.420 at 15.13 MHz in pair 78-12. Worst accuracy at each frequency shown.

■ Measured difference of DSX and reference laboratory equipment added to measurement accuracy of reference laboratory equipment. Worst accuracy at each frequency shown.

■ Corresponding measurement accuracy requirement for nominally compliant Level IV or Level 2G/VI field tester.

Loop Resistance

Loop Resistance Artifact SN 2860462

	Measured	Expected	Limit	
Resistance on pair 12	-0.06	0.00	0.80	Pass
Resistance on pair 36	50.02	49.80	0.60	Pass
Resistance on pair 45	99.92	99.80	1.60	Pass
Resistance on pair 78	453.41	453.00	4.00	Pass

Resistance imbalance

Resistance Unbalance Artifact SN 2860566

	Measured	Expected	Limit	
Resistance on pair 12	-0.02	0.00	0.80	Pass
Resistance on pair 36	25.10	24.90	0.90	Pass
Resistance on pair 45	12.33	12.13	0.90	Pass
Resistance on pair 78	24.21	24.05	0.90	Pass
Resistance imbalance on pair 12	0.00	0.00	0.05	Pass
Resistance imbalance on pair 36	0.00	0.00	0.13	Pass
Resistance imbalance on pair 45	0.33	0.32	0.06	Pass
Resistance imbalance on pair 78	0.85	0.85	0.12	Pass

DSX-8000 only: M_IL and M_FEXT measurements validate the ability of the DSX-8000 to make measurements with DSX-5000 adapters.

M IL Not applicable M_ILFEXT Artifact SN -

M FEXT Not applicable M_ILFEXT Artifact SN -