Test Laboratory Glenair Italia S.p.a.
Via del Lavoro 7, Quarto Inferiore – Granarolo dell'Emilia (BO) 40057, Italy

Client - cliente**: Glenair Italia – Product Manager**

Reference contact – contatto**: P. Brulatti**

Title – titolo**:**

Octobyte - Ethernet Test – Cat. 8

Tests carried out by - test eseguito da**:** **S. Cremonini**	
Test report compiled by - rapport di prova scritto da**:** **S. Cremonini**	

Statement - dichiarazione**:** *This is to certify that all tests have been conducted in accordance with the order/ specification / test programme. The results relate to the samples tested and have been accurately recorded in the test report given under the Testlab Manager authority. This report shall not be reproduced without the written approval of the laboratory- Questo per dichiarare che tutte le prove sono state effettuate in accordo agli ordini / norme / programmi di prova. I risultati sono relativi ai campioni sottoposti alle prove sono stati registrati in maniera accurata nel rapporto di prova distribuito sotto la supervisione del Responsabile del Laboratorio. Questo rapporto di prova non deve essere riprodotto senza il consenso scritto del Laboratorio.*

Test report approved by – rapporto di prova approvato da: **L. Marani**	

Test Laboratory Glenair Italia s.p.a.
Tel. +39 051 6069998
Email: labs@glenair.it

Summary page – pagina riassuntiva**:**

a) **Scope of test** – scopo delle prove

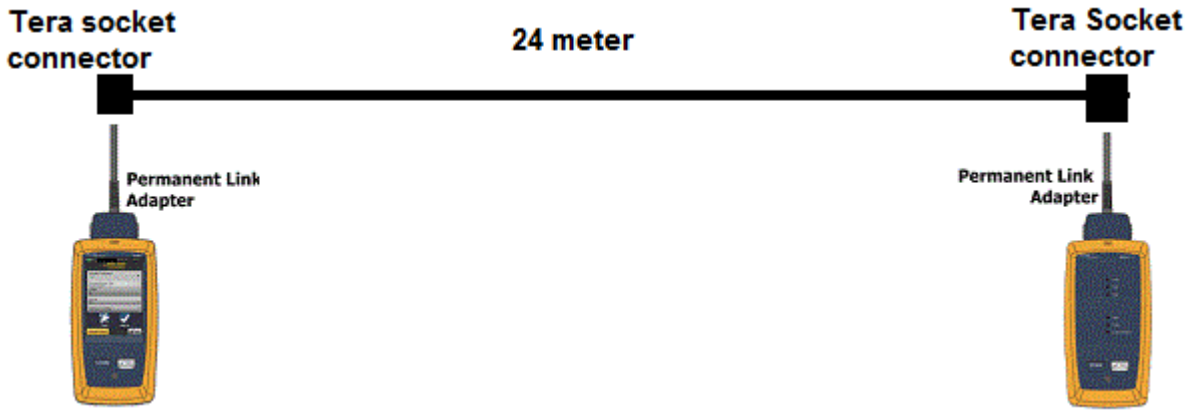
The purpose was to carry out an Ethernet Cat 8 test on new Octobyte connectors. Ethernet TIA/EIA 568 CAT 8 and ISO11801 Class II allows to transmits/receive at 40GBASE-T (40 Gigabit Ethernet) for transmitting Ethernet frames at rates of 40 gigabits per second (Gbit/s).

Ethernet test can be performed as Channel link or Permanent link performance. Permanent link requirements are more severe than channel requirement.

Test was performed with Permanent Link requirements to test the more severe requirement.

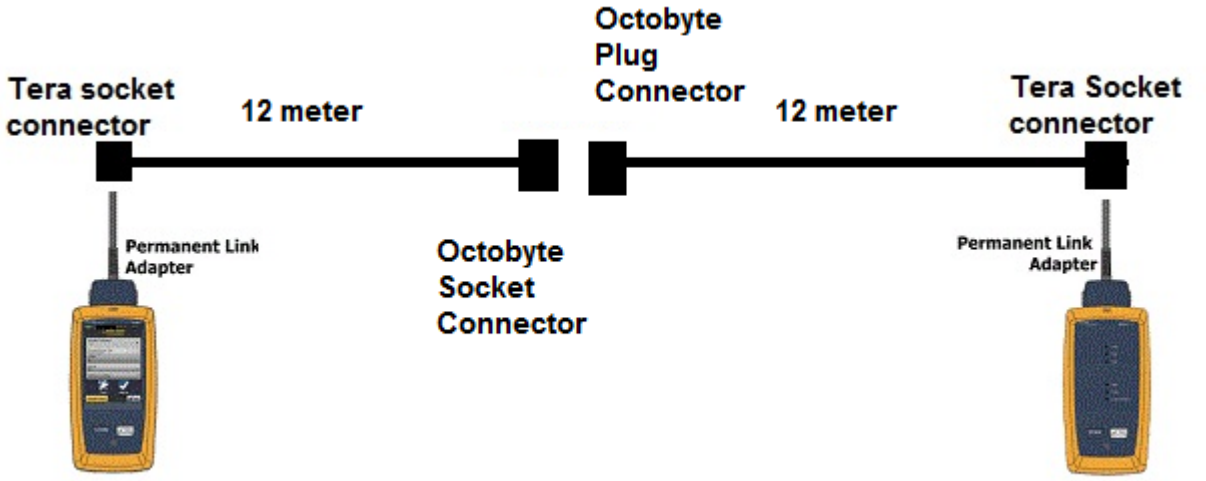
Test configuration:
Only cable (as reference)

- Socket Tera connector – 24 meter of cable – Socket Tera connector.



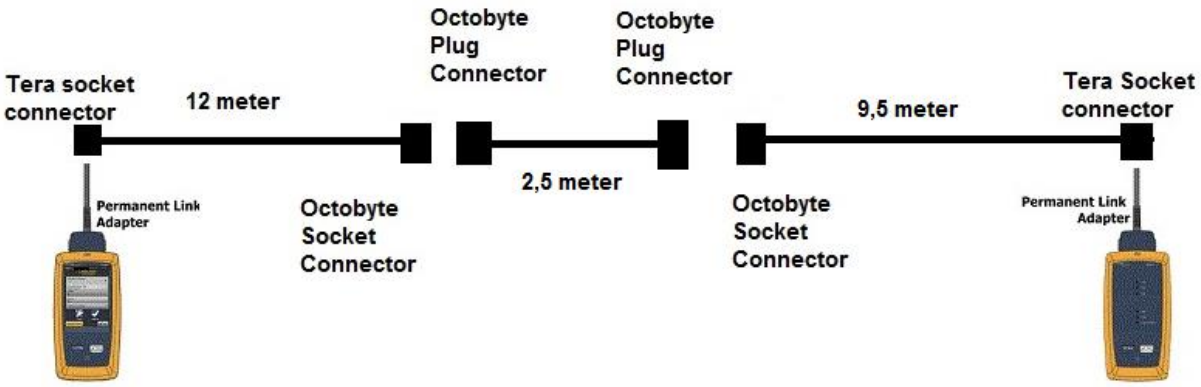
1 Octobyte connection:

- Socket Tera connector – 12 meter of cable – Octobyte socket connector **mated with** Octobyte Plug connector – 12 meter of cable - Socket Tera connector.



2 Octobyte connections:

- Socket Tera connector – 12 meter of cable – Octobyte socket connector **mated with** Octobyte Plug connector – 2,5 meter of cable – Octobyte Plug connector **mated with** Octobyte Socket connector – 9,5 meter of cable - Socket Tera connector.



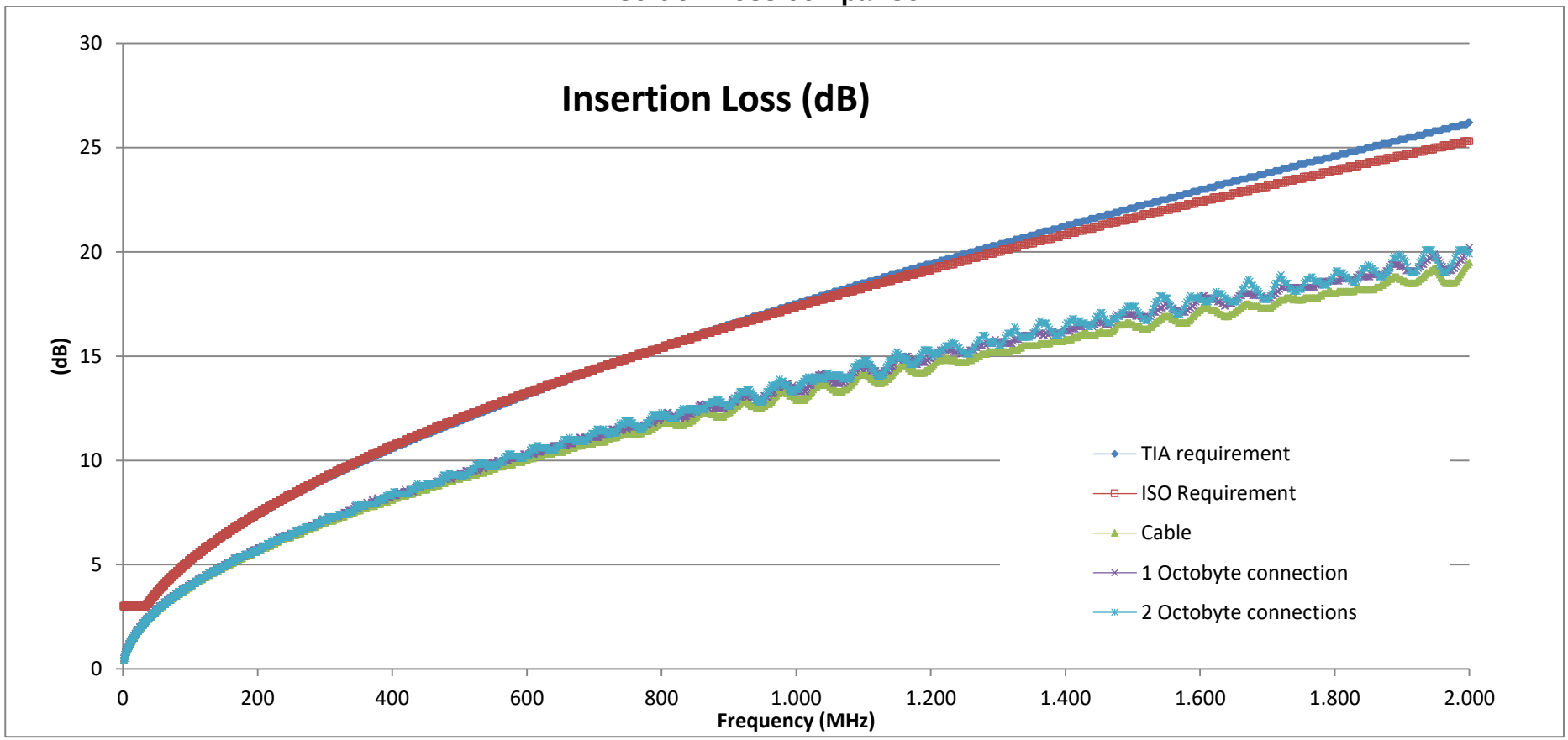
b) Conclusions / Outcome – conclusioni / esito**:**

Test	Only Cable	1 Octobyte connection	2 Octobyte connections
TIA/EIA 568 CAT 8 Permanent Link	PASS	PASS	PASS
ISO11801 Class II Permanent Link 2	PASS	PASS	PASS

Octobyte connectors pass the test of TIA/EIA 568 Cat 8 permanent link and ISO 11801 Class II Permanent link with positive result.

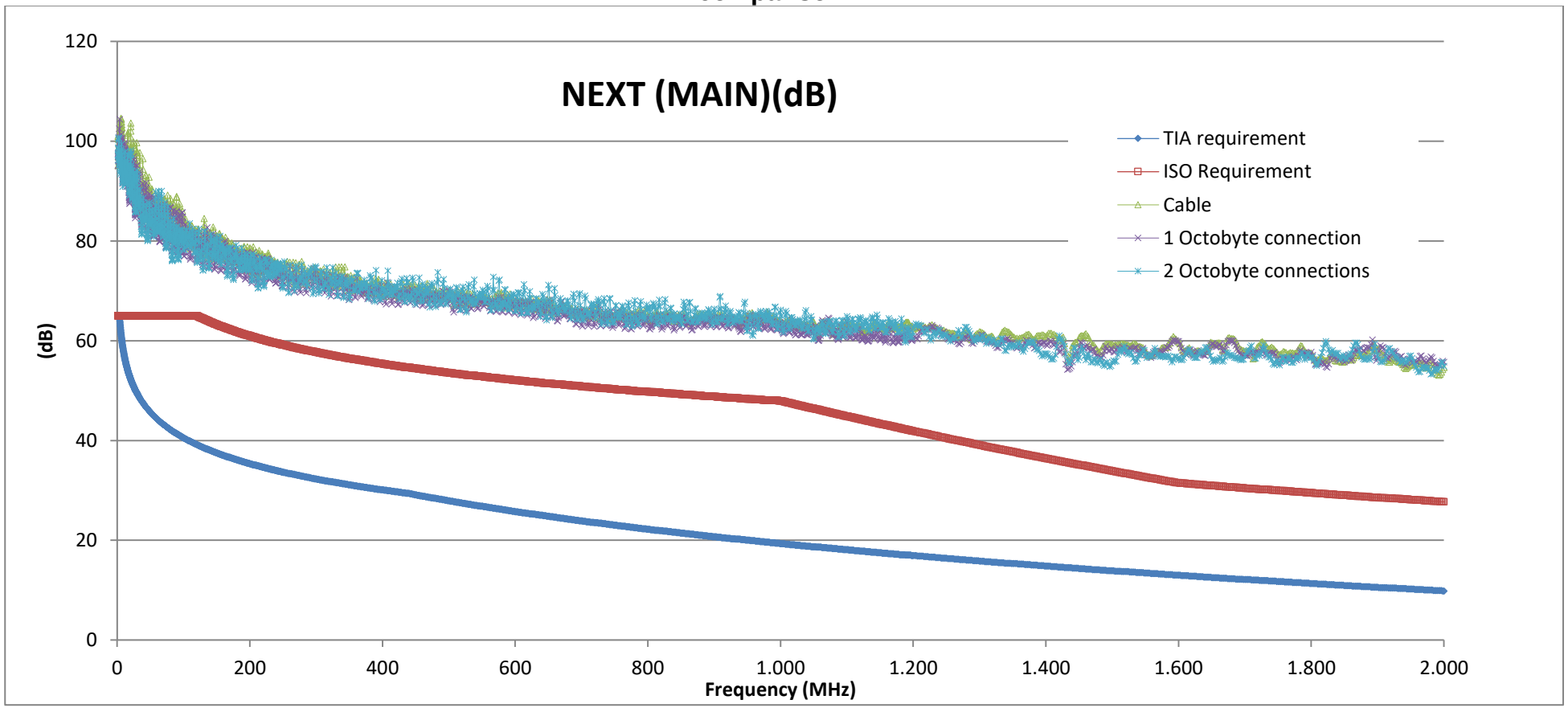
As per graphs below the difference between measure on: only cable / 1 connection / 2 connection are similar. Octobyte connectors connection affect low on the performance.

Insertion Loss comparison

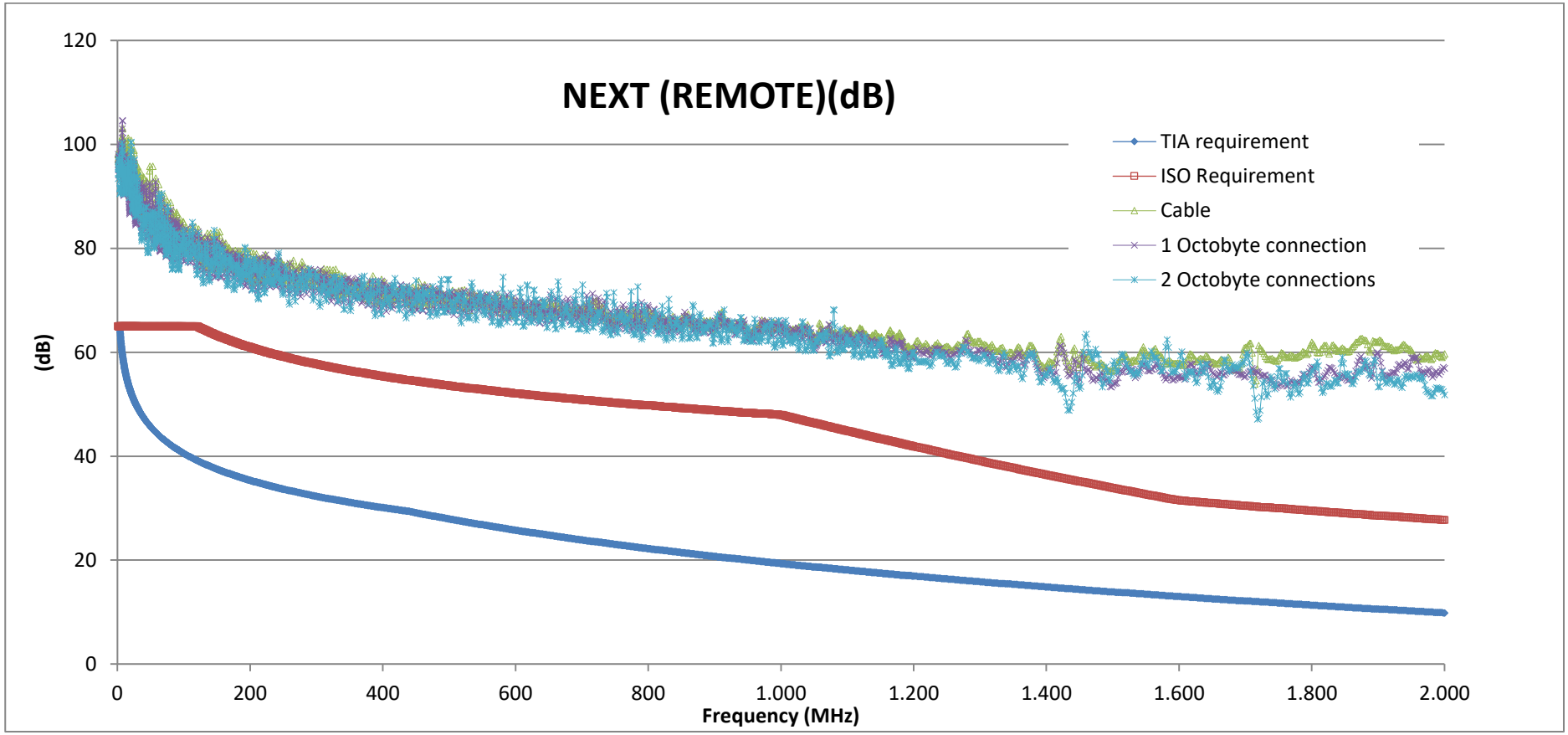


Graph was made with the minimum value of Insertion loss between pairs for each frequency.

NEXT comparison

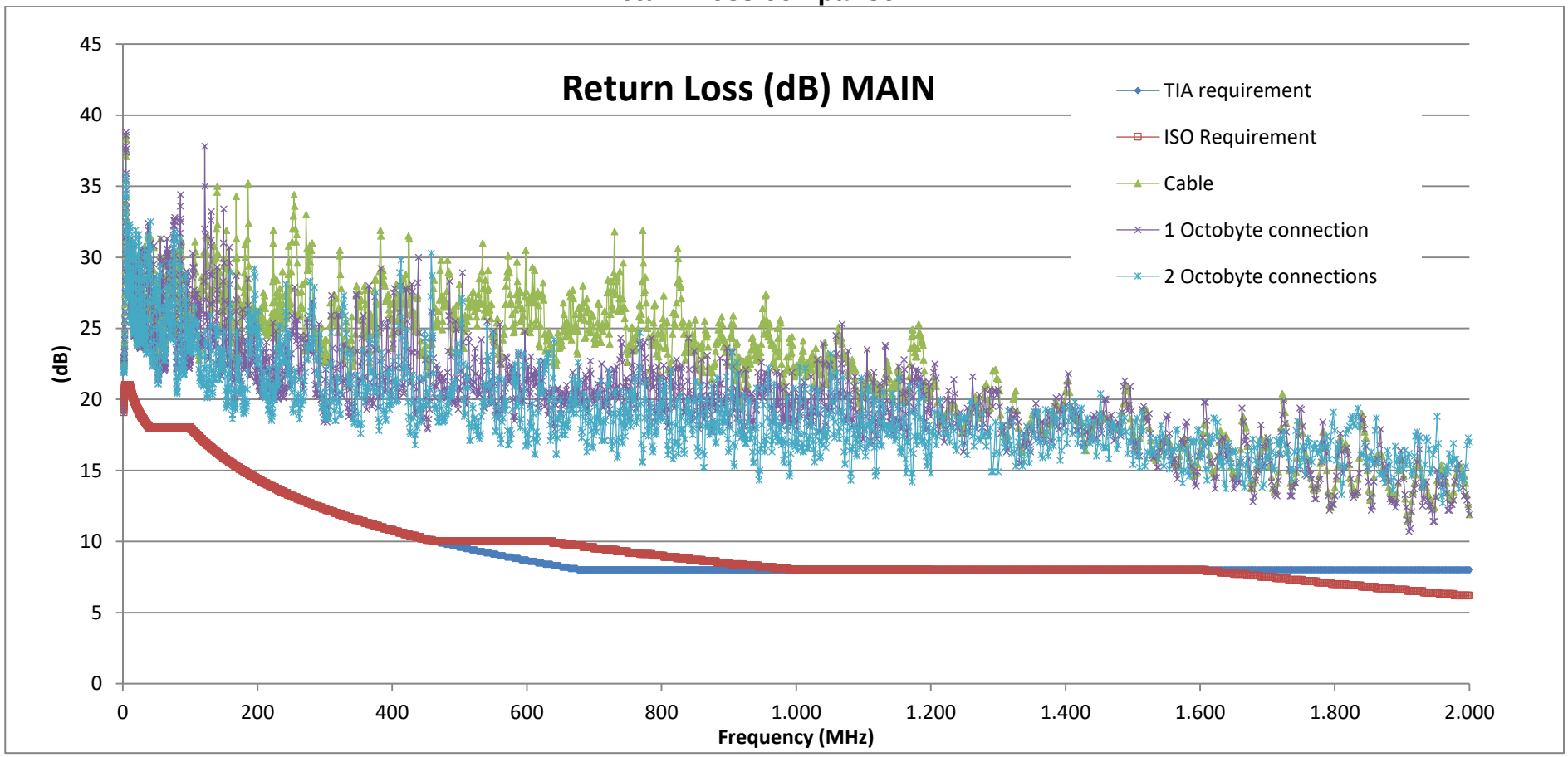


Graph was made with the minimum value of Next between pairs for each frequency.

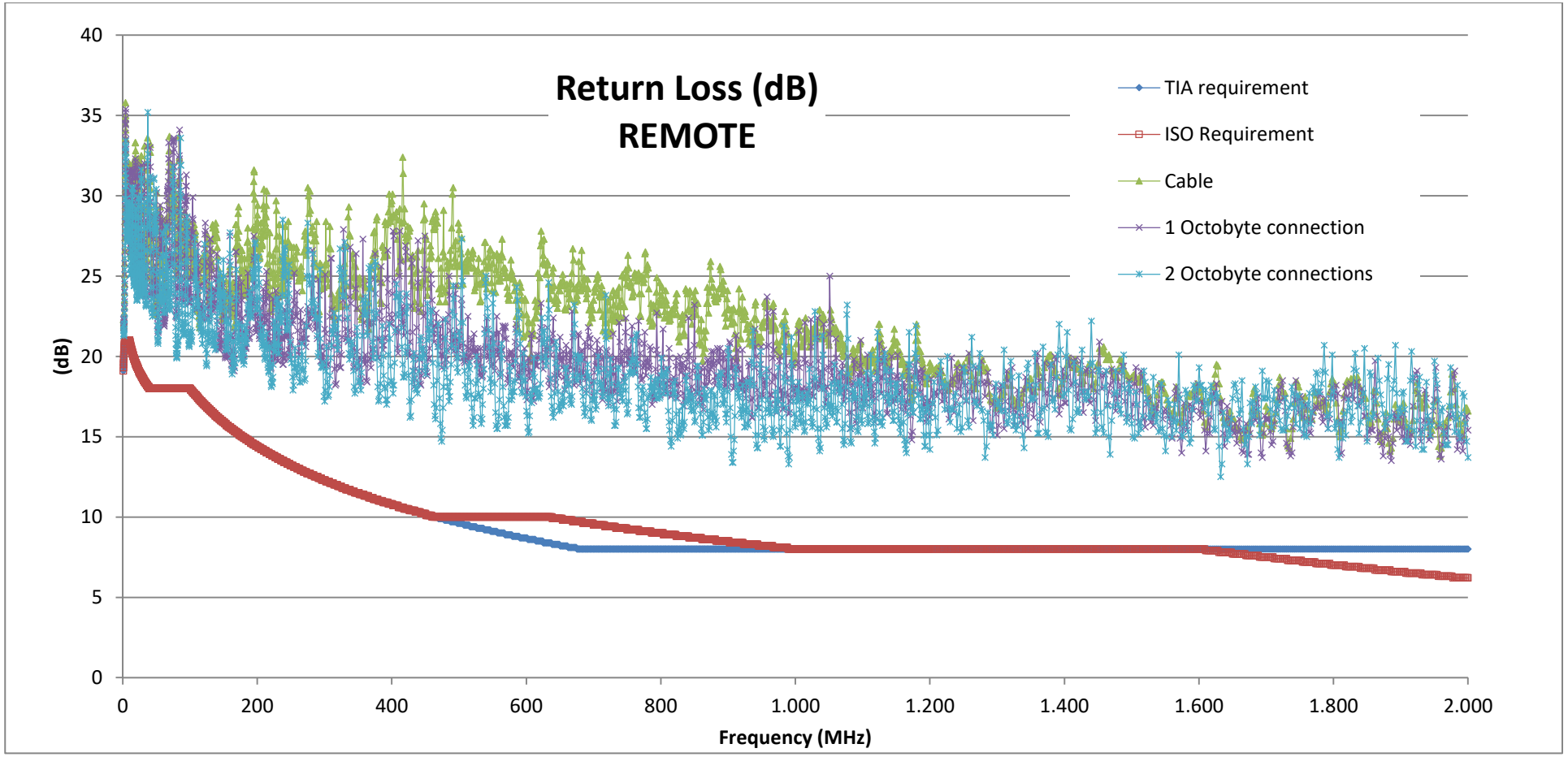


Graph was made with the minimum value of Next between pairs for each frequency.

Return Loss comparison



Graph was made with the minimum value of Return loss between pairs for each frequency.



Graph was made with the minimum value of Return loss between pairs for each frequency.

Description of samples – descrizione dei campioni**:**

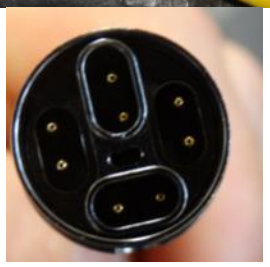
Cable: ROLINE S/FTP Cable Cat.8 (Class I), Solid Wire LSOH

Octobyte Plug connector: Q08P-F11-7A 3113313713

Octobyte Socket connector: Q08S-F11-7A 3113313714

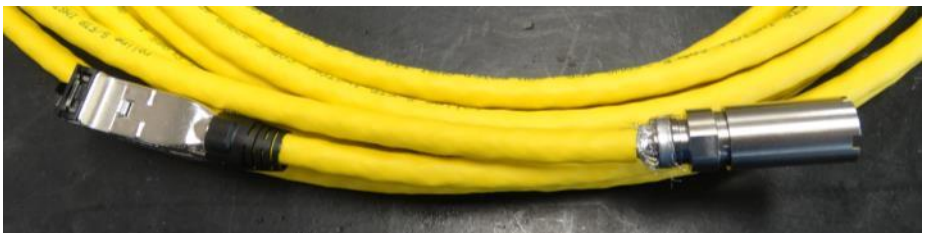
Jumper configuration

Octobyte plug – 2,5mt – Octobyte Plug



Receptacle configuration

Tera Socket – cable – Octobyte socket



Date of receipt of samples – data di ricezione campioni**: 09/06/21**

List of tests – lista delle prove**:**	**Standard / specification applicable** – norme / specifiche applicabili	**Testlab procedure cross – reference –** Procedura Testlab
1. Ethernet test - Permanent Link	ISO/IEC 11801:Edition 2.0 2010-04 ; ANSI/TIA-568-D	---

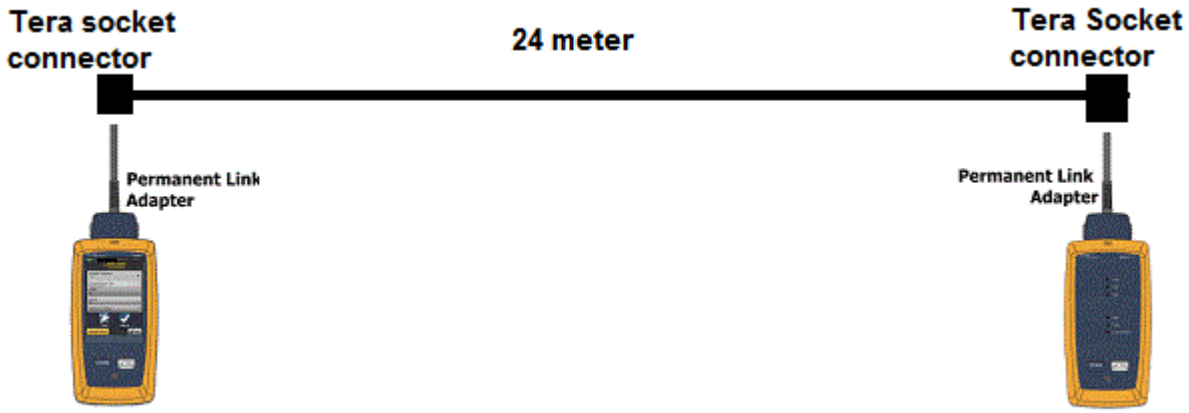
Comments / remarks / test deviations – commenti / osservazioni/ deviazioni**:**

1. Ethernet Test – CAT8

1.1. **Description of Test method procedure** – Descrizione della procedura del metodo di prova

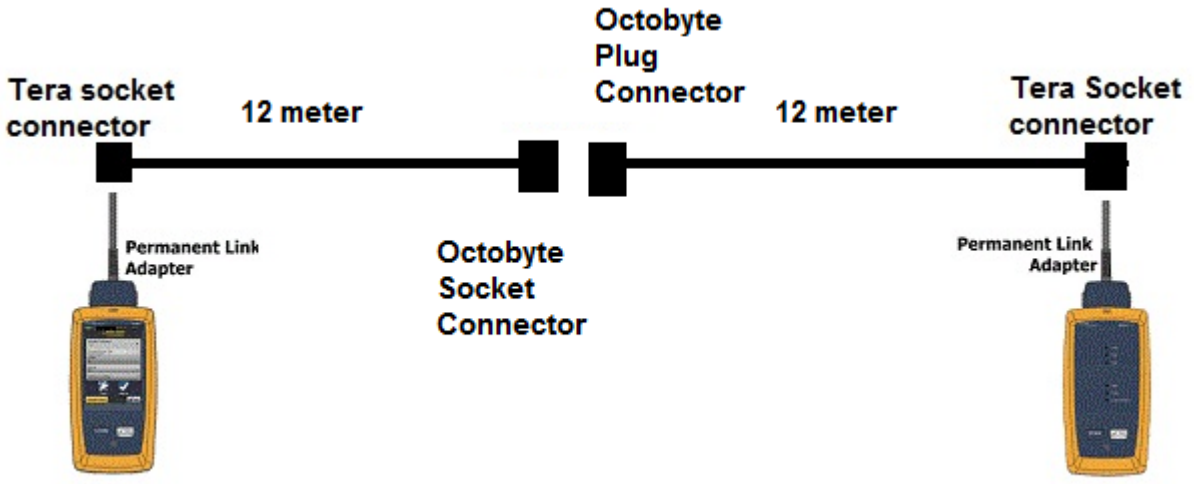
Testing as per ISO/IEC 11801 Cat 8 II Permeant link and ANSI/TIA 568 Category 8 Permanent Link.
Configuration:
Test configuration:
Only cable (as reference)

- Socket Tera connector – 24 meter of cable – Socket Tera connector.



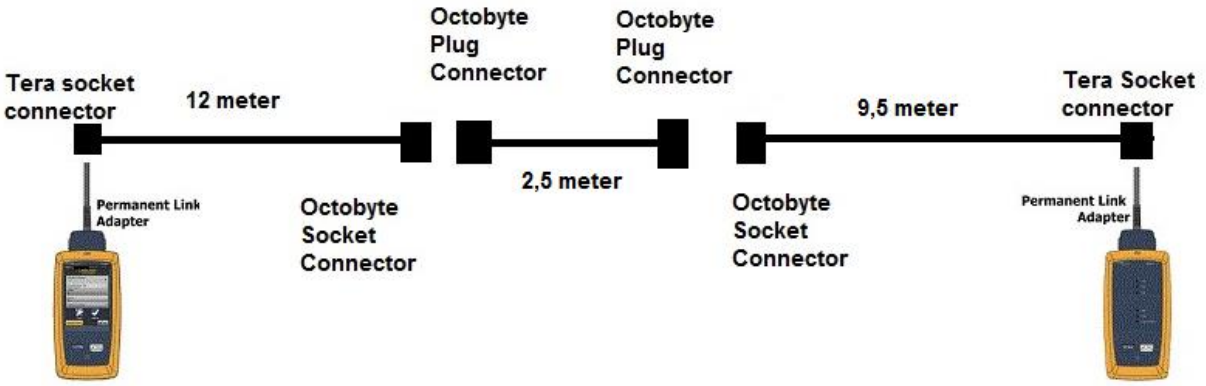
1 Octobyte connection:

- Socket Tera connector – 12 meter of cable – Octobyte socket connector **mated with** Octobyte Plug connector – 12 meter of cable - Socket Tera connector.



2 Octobyte connections:

- Socket Tera connector – 12 meter of cable – Octobyte socket connector **mated with** Octobyte Plug connector – 2,5 meter of cable – Octobyte Plug connector **mated with** Octobyte Socket connector – 9,5 meter of cable - Socket Tera connector.



TEST SETUP

1.2. Items tested – campioni sottoposti a prova

As above.

1.3. Relevant equipment – strumenti utilizzati

Equipment Strumento	**Internal code** Codice interno	**Serial Number** Numero di matricola	**Manufacturer / model** – marca / modello	**Calibration expiration date** – scadenza taratura
LAN cable certifier	DSX8000	1932179+19345288; 19320145+1932375	Fluke / DSX-8000	12/21

1.4. Requirement - requisiti

PASS.

1.5. Date and place of test – data e luogo della prova

09/06/21; 18/06/21 – Glenair Italia Test laboratory – Environmental Test Room

1.6. Environmental conditions – condizioni ambientali

Date	Temperature	Humidity	Atmospheric pressure (hPa)
09/06/21	23,4°C	38,7 %RH	1011
18/06/21	23,1°C	45,6 %RH	1016

1.7. Result – risultati

Test on Cable – ANSI/TIA Cat. 8 Permanent Link

LINKWARE™PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA 24MT CAT8 TIA PERM **PASS**

Cat 8 S/FTP | TIA Cat 8 Perm. Link (+All) | Headroom (NEXT): 29.4 dB
06/01/2021 02:49 PM | DSX-8000 | S/N: 1932179

Tests	Detail	Status	Value	Limit	Margin
Insertion Loss (dB)	Pair 4,5, 1958.0 MHz	PASS	20.1	25.8	5.7
NEXT (dB)	Pair 3,6-4,5, 3.3 MHz	PASS	94.4	65.0	29.4
PS NEXT (dB)	Pair 3,6, 3.3 MHz	PASS	92.1	62.0	30.1
ACR-N (dB)	Pair 3,6-4,5, 3.3 MHz	N/A	93.7	62.0	31.7
PS ACR-N (dB)	Pair 3,6, 3.3 MHz	N/A	91.4	59.0	32.4
ACR-F (dB)	Pair 3,6-1,2, 1.1 MHz	PASS	93.1	71.4	21.7
PS ACR-F (dB)	Pair 3,6, 1.1 MHz	PASS	90.9	68.4	22.5
RL (dB)	Pair 7,8, 1908.0 MHz	PASS	11.4	8.0	3.4
TCL (dB)	Pair 4,5, 87.8 MHz	PASS	30.4	24.0	6.4
CDNEXT (dB)	Pair 7,8-4,5, 1402.0 MHz		42.5		
CMRL (dB)	Pair 4,5, 1654.0 MHz		5.0		
ELTCTL (dB)	Pair 4,5, 1.0 MHz	PASS	52.6	46.8	5.8
Length (m)	Pair 7,8	PASS	23.5	24.0	0.5
Prop. Delay (ns)	Pair 3,6	PASS	112	136	24
Delay Skew (ns)	Pair 3,6	PASS	3	13	10
Resistance (ohms)	Pair 3,6	PASS	3.00	5.60	2.60
Resistance Unbalance (ohms)	Pair 3,6	PASS	0.012	0.100	0.088
Resistance P2P Unbalance (ohms)	Pair 3,6-7,8	PASS	0.008	0.200	0.192
Wire Map		PASS			

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA 24MT CAT8 TIA PERM

Test Summary: PASS

Test Limit: TIA Cat 8 Perm. Link (+All)
Limits Version: V7.5
Date / Time: 06/01/2021 02:49:07 PM
Operator: SIMONE CREMONINI
Headroom 29.4 dB (NEXT 3,6-4,5)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

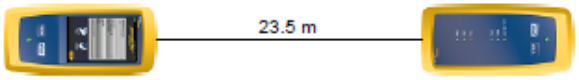
Main: Versiv
S/N: 1932179
Software Version: V6.5 Build 5
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

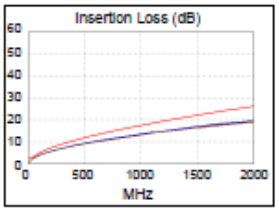
Remote: Versiv
S/N: 1932375
Software Version: V6.5 Build 5
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

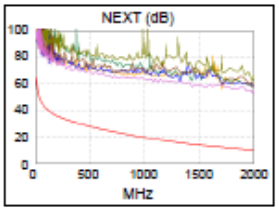
Wire Map	1	2	3	4	5	6	7	8	S
PASS	|	|	|	|	|	|	|	|	|
(T568B)	1	2	3	4	5	6	7	8	S

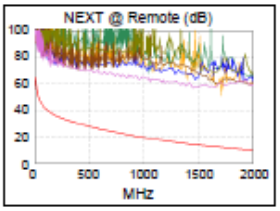
Length (m), Limit 24.0	[Pair 7,8]	23.5
Prop. Delay (ns), Limit 136	[Pair 3,6]	112
Delay Skew (ns), Limit 13	[Pair 3,6]	3
Resistance (ohms), Limit 5.60	[Pair 3,6]	3.00
Resist. Unbal. (ohms), Limit 0.100	[Pair 3,6]	0.012
Resist. P2P Unbal. (ohms), Limit 0.200	[Pair 3,6-7,8]	0.008
Insertion Loss Margin (dB)	[Pair 4,5]	5.7
Frequency (MHz)	[Pair 4,5]	1958.0
Limit (dB)	[Pair 4,5]	25.8

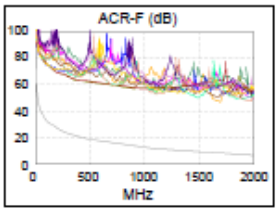
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-4,5	4,5-7,8	1,2-3,6
NEXT (dB)	30.1	29.4	43.2	41.9
Freq. (MHz)	1.1	3.3	1992.	1714.
Limit (dB)	65.0	65.0	9.9	12.0
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	31.1	30.1	45.1	44.7
Freq. (MHz)	1.1	3.3	1992.	1714.
Limit (dB)	62.0	62.0	6.1	8.3
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-1,2	7,8-4,5	3,6-1,2
ACR-F (dB)	21.8	21.7	40.0	39.7
Freq. (MHz)	1.1	1.1	1960.	1690.
Limit (dB)	71.4	71.4	6.6	7.8
Worst Pair	3,6	3,6	4,5	4,5
PS ACR-F (dB)	22.5	23.4	41.9	42.5
Freq. (MHz)	1.1	1.0	1962.	1972.
Limit (dB)	68.4	69.4	3.5	3.5
N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-4,5	4,5-7,8	1,2-3,6
ACR-N (dB)	32.7	31.7	50.1	46.3
Freq. (MHz)	1.1	3.3	1992.	1714.
Limit (dB)	62.0	62.0	-16.2	-11.9
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-N (dB)	33.7	32.4	51.8	49.1
Freq. (MHz)	1.1	3.3	1992.	1714.
Limit (dB)	59.0	59.0	-20.1	-15.6
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	7,8	4,5
RL (dB)	3.4	4.5	3.4	5.8
Freq. (MHz)	1908.	114.0	1908.	1958.
Limit (dB)	8.0	17.3	8.0	8.0

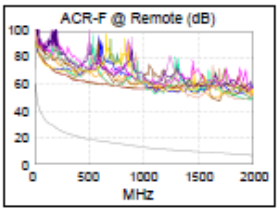


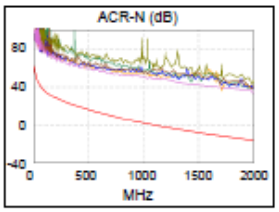


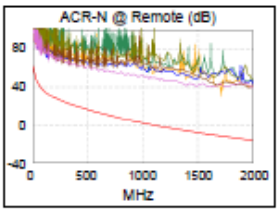


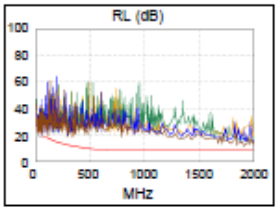


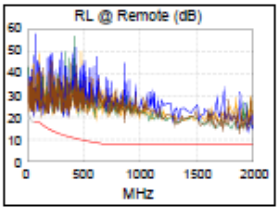












Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	25GBASE-T	40GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
TR-16 Passive		

LinkWare™ PC Version 10.7

Project: CAT8 2.1
CAT8 Test-.flw

FLUKE networks

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA 24MT CAT8 TIA PERM

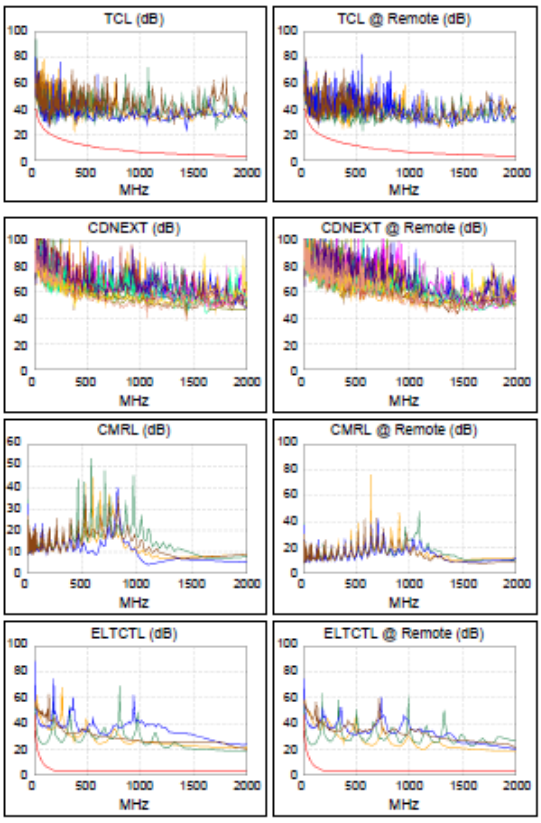
Test Summary: PASS

Test Limit: TIA Cat 8 Perm. Link (+All)
Limits Version: V7.5
Date / Time: 06/01/2021 02:49:07 PM
Operator: SIMONE CREMONINI
Headroom 29.4 dB (NEXT 3,6-4,5)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.5 Build 5
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.5 Build 5
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	1,2	1,2
TCL (dB)	6.4	6.9	9.6	11.5
Freq. (MHz)	87.8	29.8	370.0	369.0
Limit (dB)	24.0	32.0	13.3	13.4
N/A	MAIN	SR	MAIN	SR
Worst Pair			7,8-4,5	7,8-4,5
CDNEXT (dB)			39.3	42.5
Freq. (MHz)			1434.	1402.
Limit (dB)				
N/A	MAIN	SR	MAIN	SR
Worst Pair			4,5	4,5
CMRL (dB)			3.5	5.0
Freq. (MHz)			1640.	1654.
Limit (dB)				
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	3,6	1,2
ELTCTL (dB)	5.8	6.7	14.8	14.7
Freq. (MHz)	1.0	1.0	2000.	2000.
Limit (dB)	46.8	46.8	3.0	3.0



LinkWare™ PC Version 10.7

Project: CAT8 2.1
CAT8 Test-.flw

Page 4

FLUKE networks

Test on Cable – ISO/IEC 11801 Cat. II Permanent Link 2

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA 24MT CAT8 II PL2 **PASS**

Cat 8 S/FTP | ISO11801 PL Class II (+All) | Headroom (NEXT): 12.1 dB
06/01/2021 02:43 PM | DSX-8000 | S/N: 1932179

Tests	Detail	Status	Value	Limit	Margin
Insertion Loss (dB)	Pair 4,5, 1958.0 MHz	PASS	20.1	25.0	4.9
NEXT (dB)	Pair 4,5-7,8, 142.5 MHz	PASS	75.7	63.6	12.1
PS NEXT (dB)	Pair 7,8, 124.5 MHz	PASS	75.3	61.7	13.6
ACR-N (dB)	Pair 4,5-7,8, 142.5 MHz	PASS	70.9	57.4	13.5
PS ACR-N (dB)	Pair 7,8, 124.5 MHz	PASS	70.8	55.9	14.9
ACR-F (dB)	Pair 3,6-4,5, 414.0 MHz	PASS	61.4	41.2	20.2
PS ACR-F (dB)	Pair 4,5, 369.0 MHz	PASS	61.0	39.2	21.8
RL (dB)	Pair 7,8, 114.0 MHz	PASS	21.7	17.3	4.4
TCL (dB)	Pair 4,5, 87.8 MHz	PASS	30.4	17.0	13.4
CDNEXT (dB)	Pair 7,8-4,5, 1402.0 MHz		42.5		
CMRL (dB)	Pair 4,5, 1648.0 MHz		5.0		
ELTCTL (dB)	Pair 1,2, 2000.0 MHz	PASS	17.7	3.0	14.7
Length (m)	Pair 7,8		23.5		
Prop. Delay (ns)	Pair 3,6	PASS	112	147	35
Delay Skew (ns)	Pair 3,6	PASS	3	9	6
Resistance (ohms)	Pair 3,6	PASS	3.01	6.00	2.99
Resistance Unbalance (ohms)	Pair 1,2	PASS	0.016	0.200	0.184
Resistance P2P Unbalance (ohms)	Pair 3,6-7,8	PASS	0.009	0.200	0.191
Wire Map		PASS			

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA 24MT CAT8 II PL2

Test Summary: PASS

Test Limit: ISO11801 PL Class II (+All)
Limits Version: V7.5
Date / Time: 06/01/2021 02:43:33 PM
Operator: SIMONE CREMONINI
Headroom 12.1 dB (NEXT 4,5-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.5 Build 5
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.5 Build 5
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

Wire Map	1	2	3	4	5	6	7	8	S
PASS	I	I	I	I	I	I	I	I	I
(T568B)	1	2	3	4	5	6	7	8	S

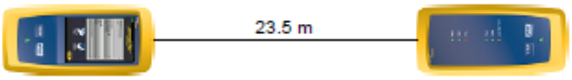
Length (m)	[Pair 7,8]	23.5
Prop. Delay (ns), Limit 147	[Pair 3,6]	112
Delay Skew (ns), Limit 9	[Pair 3,6]	3
Resistance (ohms), Limit 6.00	[Pair 3,6]	3.01
Resist. Unbal. (ohms), Limit 0.200	[Pair 1,2]	0.016
Resist. P2P Unbal. (ohms), Limit 0.200	[Pair 3,6-7,8]	0.009
Insertion Loss Margin (dB)	[Pair 4,5]	4.9
Frequency (MHz)	[Pair 4,5]	1958.0
Limit (dB)	[Pair 4,5]	25.0

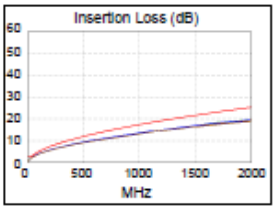
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	1,2-3,6
NEXT (dB)	12.7	12.1	25.1	23.9
Freq. (MHz)	272.0	142.5	1992.	1714.
Limit (dB)	58.5	63.6	27.8	30.3
Worst Pair	7,8	7,8	4,5	3,6
PS NEXT (dB)	13.6	14.0	26.3	26.0
Freq. (MHz)	124.5	134.0	1992.	1714.
Limit (dB)	61.7	61.1	24.8	27.3

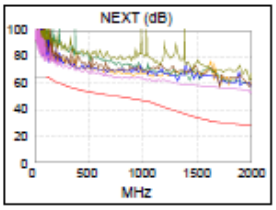
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	7,8-4,5	3,6-1,2
ACR-F (dB)	20.2	20.3	31.4	30.0
Freq. (MHz)	414.0	419.0	1968.	1692.
Limit (dB)	41.2	41.1	15.1	17.6
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	21.9	21.8	33.4	34.0
Freq. (MHz)	1054.	369.0	1972.	1974.
Limit (dB)	29.1	39.2	12.0	12.0

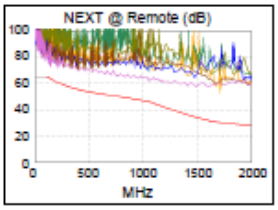
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	1,2-3,6
ACR-N (dB)	14.2	13.5	31.2	27.8
Freq. (MHz)	124.5	142.5	1992.	1714.
Limit (dB)	58.9	57.4	2.5	7.0
Worst Pair	7,8	7,8	4,5	3,6
PS ACR-N (dB)	14.9	15.4	32.1	29.9
Freq. (MHz)	124.5	134.0	1992.	1714.
Limit (dB)	55.9	55.1	-0.5	4.0

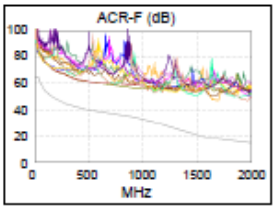
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	7,8	7,8	4,5
RL (dB)	4.7	4.4	5.4	7.3
Freq. (MHz)	52.3	114.0	1908.	1958.
Limit (dB)	18.0	17.3	6.5	6.3

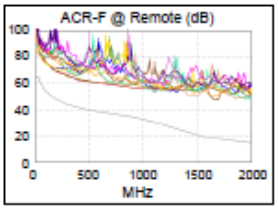


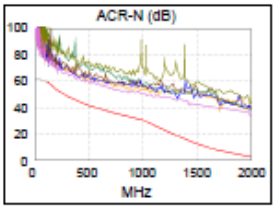


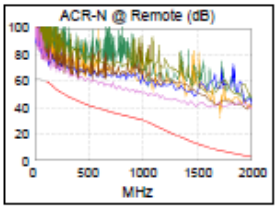


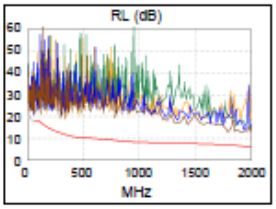


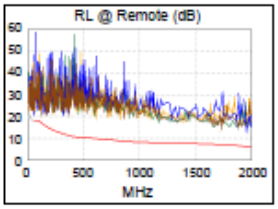












Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	25GBASE-T	40GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
TR-16 Passive		

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Project: CAT8 2.1
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FLUKE networks

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA 24MT CAT8 II PL2

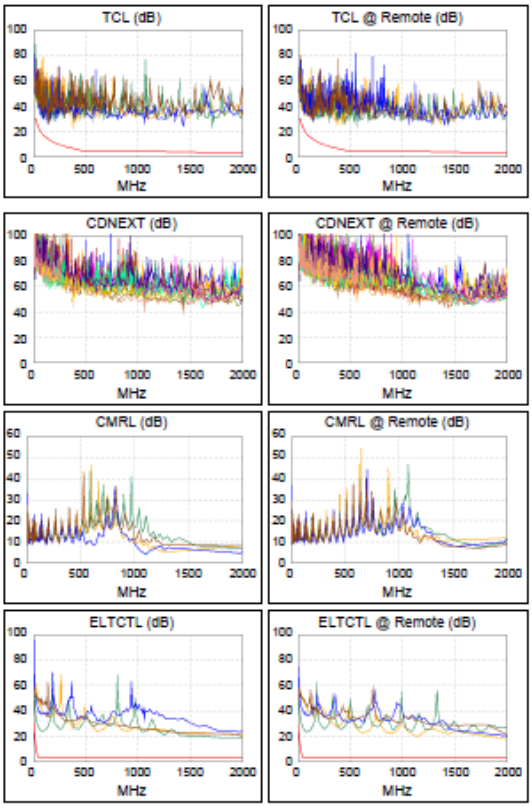
Test Summary: PASS

Test Limit: ISO11801 PL Class II (+All)
Limits Version: V7.5
Date / Time: 06/01/2021 02:43:33 PM
Operator: SIMONE CREMONINI
Headroom 12.1 dB (NEXT 4,5-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.5 Build 5
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.5 Build 5
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	1,2	1,2
TCL (dB)	13.4	13.9	16.7	18.6
Freq. (MHz)	87.8	29.8	370.0	369.0
Limit (dB)	17.0	25.0	6.3	6.4
N/A	MAIN	SR	MAIN	SR
Worst Pair			7,8-4,5	7,8-4,5
CDNEXT (dB)			39.4	42.5
Freq. (MHz)			1434.	1402.
Limit (dB)				
N/A	MAIN	SR	MAIN	SR
Worst Pair			4,5	4,5
CMRL (dB)			3.5	5.0
Freq. (MHz)			1644.	1648.
Limit (dB)				
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	1,2	3,6	1,2
ELTCTL (dB)	14.8	14.7	14.8	14.7
Freq. (MHz)	2000.	2000.	2000.	2000.
Limit (dB)	3.0	3.0	3.0	3.0



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Project: CAT8 2.1
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FLUKE networks

Test on 1 Octobyte connection – ANSI/TIA Cat. 8 Permanent Link

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 1 OCTO CAT8 TIA P **PASS**

Cat 8 S/FTP | TIA Cat 8 Perm. Link (+All) | Headroom (NEXT): 29.1 dB
06/09/2021 01:47 PM | DSX-8000 | S/N: 1932179

Tests	Detail	Status	Value	Limit	Margin
Insertion Loss (dB)	Pair 3,6, 1982.0 MHz	PASS	20.8	26.0	5.2
NEXT (dB)	Pair 3,6-7,8, 1.9 MHz	PASS	94.1	65.0	29.1
PS NEXT (dB)	Pair 7,8, 3.3 MHz	PASS	92.3	62.0	30.3
ACR-N (dB)	Pair 3,6-7,8, 1.9 MHz	N/A	93.5	62.0	31.5
PS ACR-N (dB)	Pair 7,8, 3.3 MHz	N/A	91.6	59.0	32.6
ACR-F (dB)	Pair 4,5-3,6, 1.0 MHz	PASS	93.1	72.4	20.7
PS ACR-F (dB)	Pair 4,5, 1.0 MHz	PASS	91.2	69.4	21.8
RL (dB)	Pair 7,8, 1910.0 MHz	PASS	10.7	8.0	2.7
TCL (dB)	Pair 4,5, 87.8 MHz	PASS	30.3	24.0	6.3
CDNEXT (dB)	Pair 7,8-4,5, 1400.0 MHz		42.7		
CMRL (dB)	Pair 4,5, 1646.0 MHz		5.6		
ELTCTL (dB)	Pair 4,5, 1.0 MHz	PASS	52.4	46.8	5.6
Length (m)	Pair 7,8	PASS	23.5	24.0	0.5
Prop. Delay (ns)	Pair 3,6	PASS	112	136	24
Delay Skew (ns)	Pair 3,6	PASS	3	13	10
Resistance (ohms)	Pair 3,6	PASS	3.03	5.60	2.57
Resistance Unbalance (ohms)	Pair 1,2	PASS	0.014	0.100	0.086
Resistance P2P Unbalance (ohms)	Pair 3,6-7,8	PASS	0.007	0.200	0.193
Wire Map		PASS			

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 1 OCTO CAT8 TIA P

Test Summary: PASS

Test Limit: TIA Cat 8 Perm. Link (+All)
Limits Version: V7.6
Date / Time: 06/09/2021 01:47:59 PM
Operator: SIMONE CREMONINI
Headroom 29.1 dB (NEXT 3,6-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.6 Build 2
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.6 Build 2
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

Wire Map	1	2	3	4	5	6	7	8	S
PASS	|	|	|	|	|	|	|	|	|
(T568B)	1	2	3	4	5	6	7	8	S

Length (m), Limit 24.0	[Pair 7,8]	23.5
Prop. Delay (ns), Limit 136	[Pair 3,6]	112
Delay Skew (ns), Limit 13	[Pair 3,6]	3
Resistance (ohms), Limit 5.60	[Pair 3,6]	3.03
Resist. Unbal. (ohms), Limit 0.100	[Pair 1,2]	0.014
Resist. P2P Unbal. (ohms), Limit 0.200	[Pair 3,6-7,8]	0.007
Insertion Loss Margin (dB)	[Pair 3,6]	5.2
Frequency (MHz)	[Pair 3,6]	1982.0
Limit (dB)	[Pair 3,6]	26.0

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	4,5-7,8	4,5-7,8
NEXT (dB)	30.0	29.1	39.7	41.4
Freq. (MHz)	1.4	1.9	1432.	1746.
Limit (dB)	65.0	65.0	14.5	11.8
Worst Pair	3,6	7,8	7,8	7,8
PS NEXT (dB)	30.8	30.3	46.1	42.2
Freq. (MHz)	1.4	3.3	1994.	1498.
Limit (dB)	62.0	62.0	6.0	10.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	7,8-4,5	7,8-4,5
ACR-F (dB)	20.7	20.7	39.9	39.5
Freq. (MHz)	1.0	1.0	1966.	1864.
Limit (dB)	72.4	72.4	6.5	7.0
Worst Pair	3,6	4,5	1,2	4,5
PS ACR-F (dB)	22.7	21.8	40.4	41.2
Freq. (MHz)	1.0	1.0	2000.	1990.
Limit (dB)	69.4	69.4	3.4	3.4

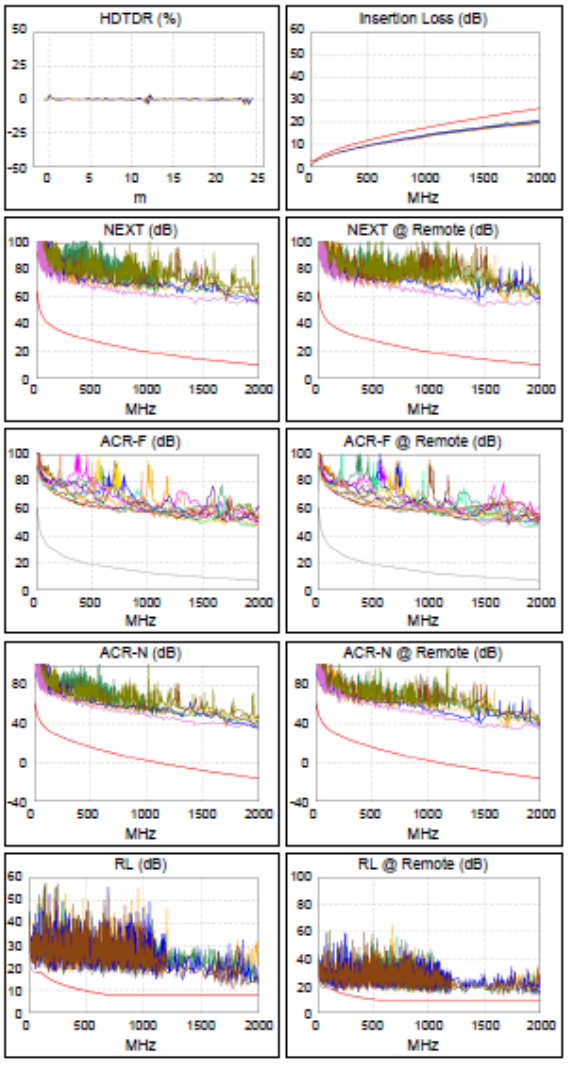
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	4,5-7,8	4,5-7,8
ACR-N (dB)	32.5	31.5	51.4	47.3
Freq. (MHz)	1.4	1.9	1994.	1746.
Limit (dB)	62.0	62.0	-16.2	-12.4
Worst Pair	3,6	7,8	7,8	7,8
PS ACR-N (dB)	33.3	32.6	52.2	53.7
Freq. (MHz)	1.4	3.3	1994.	2000.
Limit (dB)	59.0	59.0	-20.1	-20.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	4,5	7,8	7,8
RL (dB)	2.7	3.5	2.7	5.5
Freq. (MHz)	1910.	52.5	1910.	1886.
Limit (dB)	8.0	18.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	25GBASE-T	40GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
TR-16 Passive		

23.5 m



LinkWare™ PC Version 10.7

Project: CAT8 2.1
CAT8 Test-.flw

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FLUKE networks

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 1 OCTO CAT8 TIA P

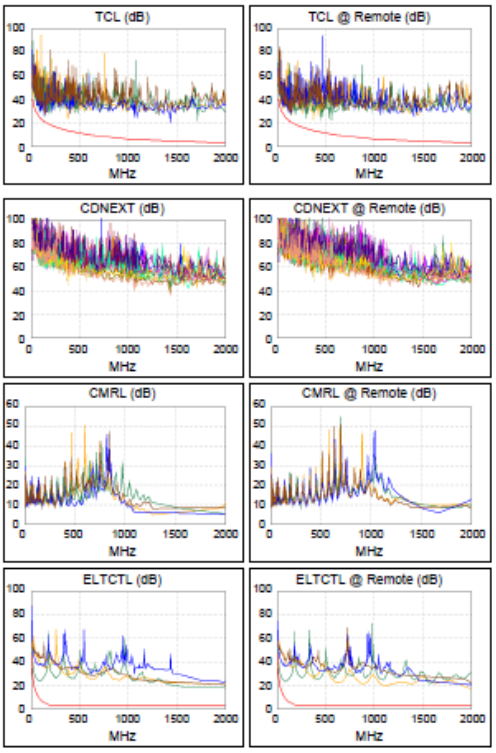
Test Summary: PASS

Test Limit: TIA Cat 8 Perm. Link (+All)
Limits Version: V7.6
Date / Time: 06/09/2021 01:47:59 PM
Operator: SIMONE CREMONINI
Headroom 29.1 dB (NEXT 3,6-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.6 Build 2
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.6 Build 2
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	3,6
TCL (dB)	6.3	6.6	18.4	13.1
Freq. (MHz)	87.8	29.8	1434.	447.0
Limit (dB)	24.0	32.0	3.3	11.9
N/A	MAIN	SR	MAIN	SR
Worst Pair			7,8-4,5	7,8-4,5
CDNEXT (dB)			36.9	42.7
Freq. (MHz)			1432.	1400.
Limit (dB)				
N/A	MAIN	SR	MAIN	SR
Worst Pair			4,5	4,5
CMRL (dB)			3.3	5.6
Freq. (MHz)			1196.	1646.
Limit (dB)				
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	3,6	1,2
ELTCTL (dB)	5.6	6.3	14.4	13.8
Freq. (MHz)	1.0	1.0	2000.	2000.
Limit (dB)	46.8	46.8	3.0	3.0



LinkWare™ PC Version 10.7

Project: CAT8 2.1
CAT8 Test-.flw

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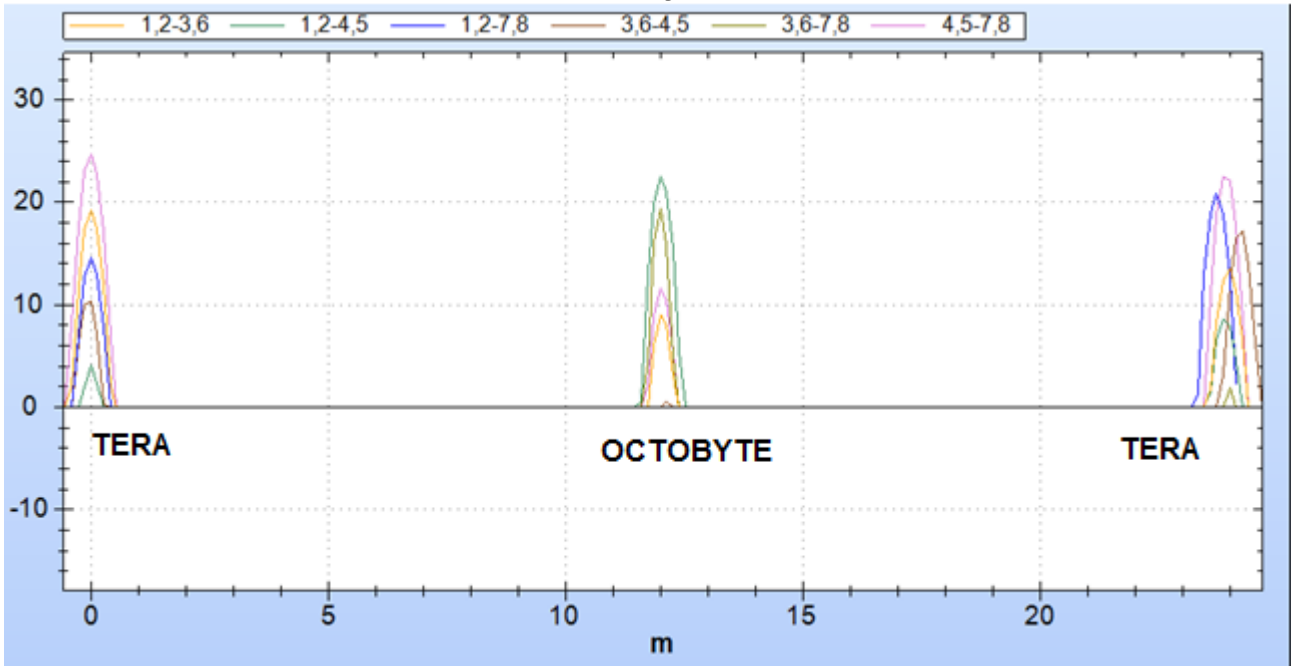
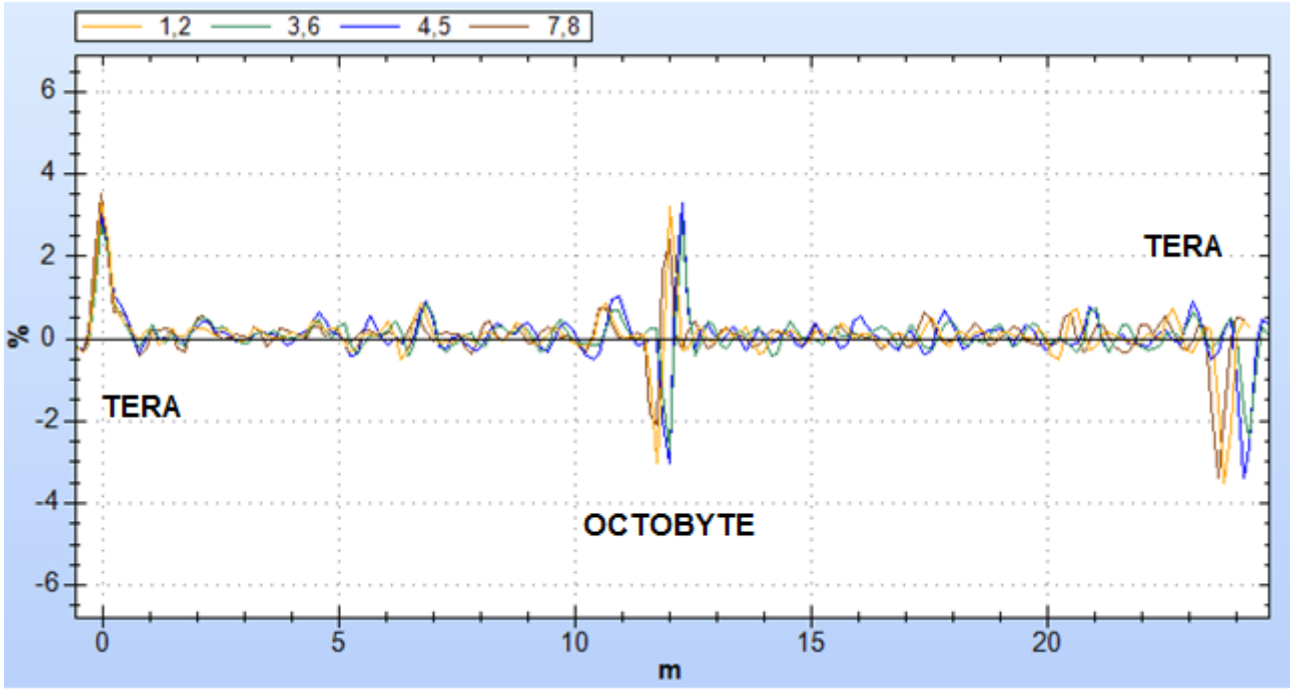
FLUKE networks

HDTDX – 1 Octobyte Connection



HDTDR – 1 Octobyte Connection



Test on 1 Octobyte connection – ISO/IEC 11801 Cat. II Permanent Link 2

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 1 OCTO CAT8 ISO II P **PASS**

Cat 8 S/FTP | ISO11801 PL Class II (+All) | Headroom (NEXT): 10.5 dB
06/09/2021 01:46 PM | DSX-8000 | S/N: 1932179

Tests	Detail	Status	Value	Limit	Margin
Insertion Loss (dB)	Pair 3,6, 1980.0 MHz	PASS	20.8	25.2	4.4
NEXT (dB)	Pair 4,5-7,8, 137.5 MHz	PASS	74.4	63.9	10.5
PS NEXT (dB)	Pair 7,8, 129.0 MHz	PASS	73.8	61.4	12.4
ACR-N (dB)	Pair 4,5-7,8, 137.5 MHz	PASS	69.7	57.8	11.9
PS ACR-N (dB)	Pair 7,8, 129.0 MHz	PASS	69.2	55.5	13.7
ACR-F (dB)	Pair 7,8-4,5, 749.0 MHz	PASS	56.3	36.0	20.3
PS ACR-F (dB)	Pair 3,6, 369.0 MHz	PASS	59.9	39.2	20.7
RL (dB)	Pair 4,5, 52.5 MHz	PASS	21.4	18.0	3.4
TCL (dB)	Pair 4,5, 87.8 MHz	PASS	30.3	17.0	13.3
CDNEXT (dB)	Pair 7,8-4,5, 1402.0 MHz		42.5		
CMRL (dB)	Pair 4,5, 1644.0 MHz		5.7		
ELTCTL (dB)	Pair 1,2, 2000.0 MHz	PASS	16.9	3.0	13.9
Length (m)	Pair 7,8		23.5		
Prop. Delay (ns)	Pair 3,6	PASS	112	147	35
Delay Skew (ns)	Pair 3,6	PASS	3	9	6
Resistance (ohms)	Pair 3,6	PASS	3.02	6.00	2.98
Resistance Unbalance (ohms)	Pair 1,2	PASS	0.019	0.200	0.181
Resistance P2P Unbalance (ohms)	Pair 3,6-7,8	PASS	0.007	0.200	0.193
Wire Map		PASS			

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 1 OCTO CAT8 ISO II P

Test Summary: PASS

Test Limit: ISO11801 PL Class II (+All)
Limits Version: V7.6
Date / Time: 06/09/2021 01:46:42 PM
Operator: SIMONE CREMONINI
Headroom 10.5 dB (NEXT 4,5-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.6 Build 2
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.6 Build 2
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

Wire Map	1	2	3	4	5	6	7	8	S
PASS	|	|	|	|	|	|	|	|	|
(T568B)	1	2	3	4	5	6	7	8	S

Length (m)	[Pair 7,8]	23.5
Prop. Delay (ns), Limit 147	[Pair 3,6]	112
Delay Skew (ns), Limit 9	[Pair 3,6]	3
Resistance (ohms), Limit 6.00	[Pair 3,6]	3.02
Resist. Unbal. (ohms), Limit 0.200	[Pair 1,2]	0.019
Resist. P2P Unbal. (ohms), Limit 0.200	[Pair 3,6-7,8]	0.007
Insertion Loss Margin (dB)	[Pair 3,6]	4.4
Frequency (MHz)	[Pair 3,6]	1980.0
Limit (dB)	[Pair 3,6]	25.2

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	4,5-7,8
NEXT (dB)	10.6	10.5	19.1	19.5
Freq. (MHz)	138.0	137.5	1434.	1498.
Limit (dB)	63.9	63.9	35.5	33.9
Worst Pair	7,8	7,8	7,8	7,8
PS NEXT (dB)	12.5	12.4	27.3	21.6
Freq. (MHz)	138.0	129.0	1992.	1498.
Limit (dB)	60.9	61.4	24.8	30.9

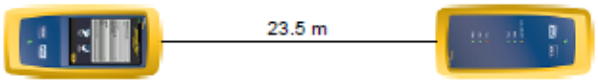
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-4,5	7,8-4,5	7,8-4,5	7,8-4,5
ACR-F (dB)	20.3	20.3	31.1	30.6
Freq. (MHz)	749.0	738.0	1964.	1860.
Limit (dB)	36.0	36.2	15.1	16.0
Worst Pair	4,5	3,6	1,2	4,5
PS ACR-F (dB)	21.1	20.7	31.9	32.8
Freq. (MHz)	730.0	369.0	2000.	1990.
Limit (dB)	33.3	39.2	11.8	11.9

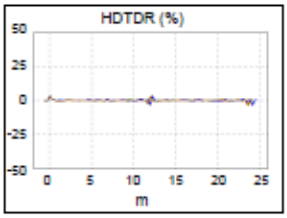
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	4,5-7,8
ACR-N (dB)	12.1	11.9	32.5	29.0
Freq. (MHz)	138.0	137.5	1994.	1746.
Limit (dB)	57.7	57.8	2.5	6.5
Worst Pair	7,8	7,8	7,8	7,8
PS ACR-N (dB)	13.8	13.7	32.8	34.0
Freq. (MHz)	129.0	129.0	1994.	2000.
Limit (dB)	55.5	55.5	-0.5	-0.6

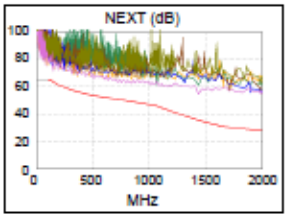
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	7,8	4,5
RL (dB)	3.4	3.5	4.6	7.4
Freq. (MHz)	52.5	52.5	1910.	1960.
Limit (dB)	18.0	18.0	6.5	6.3

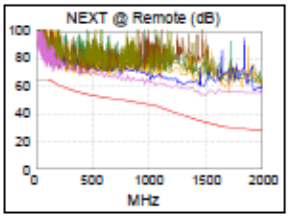
Compliant Network Standards:

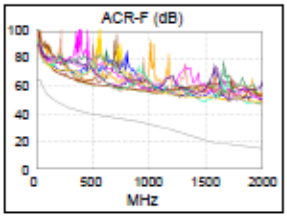
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	25GBASE-T	40GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
Token Ring		

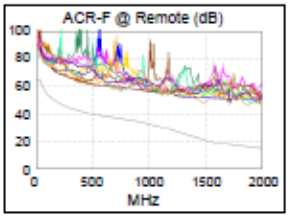


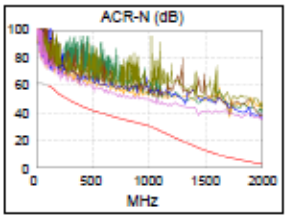


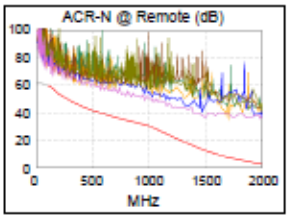


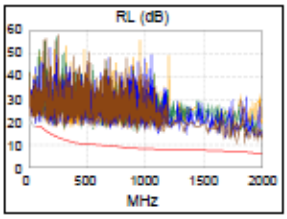


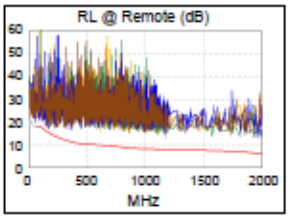












LinkWare™ PC Version 10.7

Project: CAT8 2.1
CAT8 Test-.flw

FLUKE networks

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 1 OCTO CAT8 ISO II P

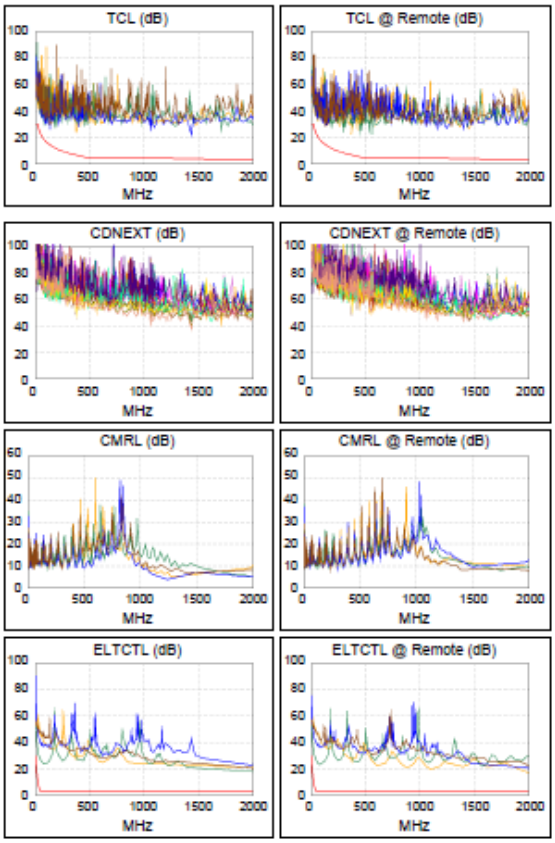
Test Summary: PASS

Test Limit: ISO11801 PL Class II (+All)
Limits Version: V7.6
Date / Time: 06/09/2021 01:46:42 PM
Operator: SIMONE CREMONINI
Headroom 10.5 dB (NEXT 4,5-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.6 Build 2
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.6 Build 2
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	3,6
TCL (dB)	13.3	13.6	18.8	19.9
Freq. (MHz)	87.8	29.8	1434.	446.0
Limit (dB)	17.0	25.0	3.0	5.0
N/A	MAIN	SR	MAIN	SR
Worst Pair			7,8-4,5	7,8-4,5
CDNEXT (dB)			37.3	42.5
Freq. (MHz)			1434.	1402.
Limit (dB)				
N/A	MAIN	SR	MAIN	SR
Worst Pair			4,5	4,5
CMRL (dB)			3.4	5.7
Freq. (MHz)			1214.	1644.
Limit (dB)				
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	1,2	3,6	1,2
ELTCTL (dB)	14.5	13.9	14.5	13.9
Freq. (MHz)	2000.	2000.	2000.	2000.
Limit (dB)	3.0	3.0	3.0	3.0



LinkWare™ PC Version 10.7

Project: CAT8 2.1
CAT8 Test-.flw

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FLUKE networks

Test on 2 Octobyte connections – ANSI/TIA Cat. 8 Permanent Link

LINKWARE™PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 2 OCTO CAT8 TIA P **PASS**

Cat 8 S/FTP | TIA Cat 8 Perm. Link (+All) | Headroom (NEXT): 26.5 dB
06/18/2021 04:54 PM | DSX-8000 | S/N: 1932179

Tests	Detail	Status	Value	Limit	Margin
Insertion Loss (dB)	Pair 4,5, 1934.0 MHz	PASS	22.2	25.7	3.5
NEXT (dB)	Pair 1,2-7,8, 3.9 MHz	PASS	90.5	64.0	26.5
PS NEXT (dB)	Pair 7,8, 3.6 MHz	PASS	90.1	61.2	28.9
ACR-N (dB)	Pair 1,2-7,8, 3.9 MHz	N/A	89.8	61.0	28.8
PS ACR-N (dB)	Pair 7,8, 3.6 MHz	N/A	89.4	58.2	31.2
ACR-F (dB)	Pair 4,5-3,6, 1.0 MHz	PASS	90.8	72.4	18.4
PS ACR-F (dB)	Pair 4,5, 1.0 MHz	PASS	89.1	69.4	19.7
RL (dB)	Pair 4,5, 80.3 MHz	PASS	19.9	18.0	1.9
TCL (dB)	Pair 4,5, 70.8 MHz	PASS	32.3	25.6	6.7
CDNEXT (dB)	Pair 7,8-4,5, 1434.0 MHz		40.2		
CMRL (dB)	Pair 4,5, 1646.0 MHz		5.2		
ELTCTL (dB)	Pair 7,8, 1.0 MHz	PASS	50.0	46.8	3.2
Length (m)	Pair 1,2	PASS	23.5	24.0	0.5
Prop. Delay (ns)	Pair 3,6	PASS	111	136	25
Delay Skew (ns)	Pair 3,6	PASS	2	13	11
Resistance (ohms)	Pair 3,6	PASS	2.99	5.60	2.61
Resistance Unbalance (ohms)	Pair 1,2	PASS	0.014	0.100	0.086
Resistance P2P Unbalance (ohms)	Pair 3,6-7,8	PASS	0.009	0.200	0.191
Wire Map		PASS			

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 2 OCTO CAT8 TIA P

Test Summary: PASS

Test Limit: TIA Cat 8 Perm. Link (+All)
Limits Version: V7.6
Date / Time: 06/18/2021 04:54:15 PM
Operator: SIMONE CREMONINI
Headroom 26.5 dB (NEXT 1,2-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.6 Build 2
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.6 Build 2
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

Wire Map	1	2	3	4	5	6	7	8	S
PASS	ı	ı	ı	ı	ı	ı	ı	ı	ı
(T568B)	1	2	3	4	5	6	7	8	S

Length (m), Limit 24.0	[Pair 1,2]	23.5
Prop. Delay (ns), Limit 136	[Pair 3,6]	111
Delay Skew (ns), Limit 13	[Pair 3,6]	2
Resistance (ohms), Limit 5.60	[Pair 3,6]	2.99
Resist. Unbal. (ohms), Limit 0.100	[Pair 1,2]	0.014
Resist. P2P Unbal. (ohms), Limit 0.200	[Pair 3,6-7,8]	0.009
Insertion Loss Margin (dB)	[Pair 4,5]	3.5
Frequency (MHz)	[Pair 4,5]	1934.0
Limit (dB)	[Pair 4,5]	25.7

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	1,2-7,8	4,5-7,8	1,2-3,6
NEXT (dB)	30.1	26.5	43.3	35.1
Freq. (MHz)	3.5	3.9	1980.	1718.
Limit (dB)	64.7	64.0	10.0	12.0
Worst Pair	4,5	7,8	7,8	1,2
PS NEXT (dB)	31.0	28.9	45.7	38.8
Freq. (MHz)	1.0	3.6	1982.	1718.
Limit (dB)	62.0	61.2	6.1	8.2

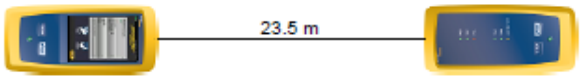
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	7,8-4,5	7,8-4,5
ACR-F (dB)	18.4	18.4	38.6	39.1
Freq. (MHz)	1.0	1.0	1968.	1968.
Limit (dB)	72.4	72.4	6.5	6.5
Worst Pair	4,5	4,5	4,5	3,6
PS ACR-F (dB)	20.7	19.7	40.0	40.2
Freq. (MHz)	1.0	1.0	1968.	1938.
Limit (dB)	69.4	69.4	3.5	3.6

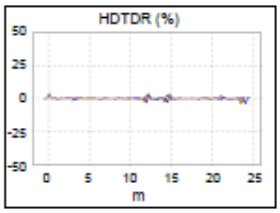
N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	1,2-7,8	4,5-7,8	1,2-3,6
ACR-N (dB)	32.4	28.8	49.5	37.8
Freq. (MHz)	4.4	3.9	1982.	1718.
Limit (dB)	60.2	61.0	-16.1	-11.9
Worst Pair	3,6	7,8	4,5	3,6
PS ACR-N (dB)	33.3	31.2	50.5	41.6
Freq. (MHz)	4.1	3.6	1980.	1718.
Limit (dB)	57.3	58.2	-19.9	-15.7

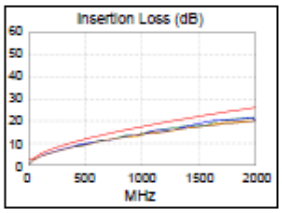
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	2.4	1.9	4.7	4.5
Freq. (MHz)	80.0	80.3	1960.	1632.
Limit (dB)	18.0	18.0	8.0	8.0

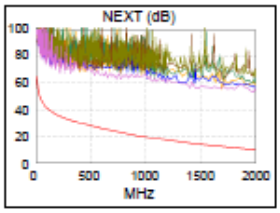
Compliant Network Standards:

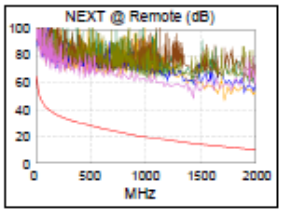
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	25GBASE-T	40GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
TR-16 Passive		

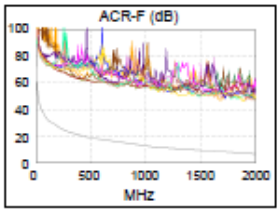


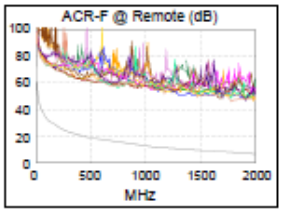


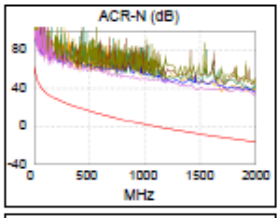


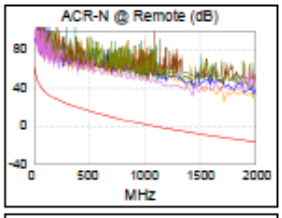


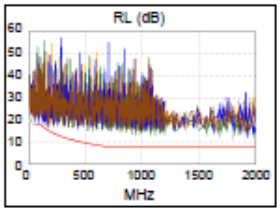


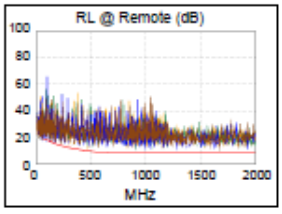












LinkWare™ PC Version 10.8.1

Project: CAT8
Cat8 test 2.lnw

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FLUKE networks

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 2 OCTO CAT8 TIA P

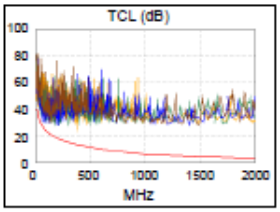
Test Summary: PASS

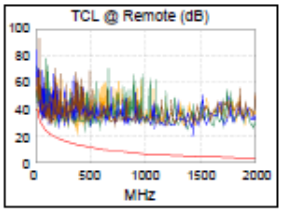
Test Limit: TIA Cat 8 Perm. Link (+All)
Limits Version: V7.6
Date / Time: 06/18/2021 04:54:15 PM
Operator: SIMONE CREMONINI
Headroom 26.5 dB (NEXT 1,2-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

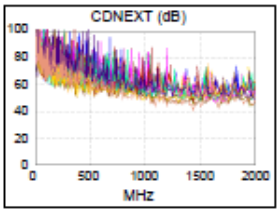
Main: Versiv
S/N: 1932179
Software Version: V6.6 Build 2
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

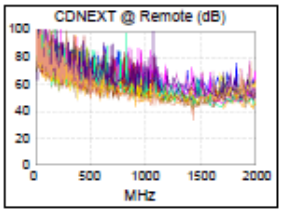
Remote: Versiv
S/N: 1932375
Software Version: V6.6 Build 2
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

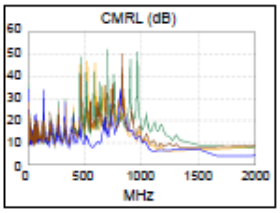
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	1,2	1,2
TCL (dB)	6.7	6.8	11.6	9.1
Freq. (MHz)	70.8	25.5	372.0	370.0
Limit (dB)	25.6	33.1	13.3	13.3
N/A	MAIN	SR	MAIN	SR
Worst Pair			7,8-4,5	7,8-4,5
CDNEXT (dB)			40.2	36.6
Freq. (MHz)			1434.	1434.
Limit (dB)				
N/A	MAIN	SR	MAIN	SR
Worst Pair			4,5	4,5
CMRL (dB)			3.4	5.2
Freq. (MHz)			1886.	1646.
Limit (dB)				
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	3,6	1,2
ELTCTL (dB)	6.2	3.2	14.4	14.6
Freq. (MHz)	1.0	1.0	2000.	1988.
Limit (dB)	46.8	46.8	3.0	3.0

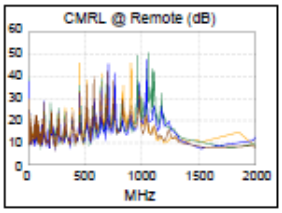


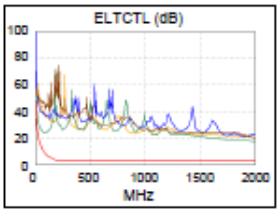


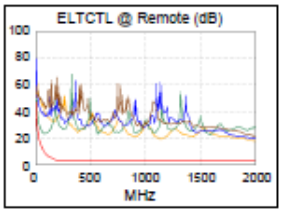












LinkWare™ PC Version 10.8.1

Project: CAT8 2.1
Cat8 test 2.flw

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FLUKE networks

Test on 2 Octobyte connections – ISO/IEC 11801 Cat. II Permanent Link 2

LINKWARE™PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 2 OCTO CAT8 ISO **PASS**

Cat 8 S/FTP | ISO11801 PL Class II (+All) | Headroom (NEXT): 8.8 dB
06/18/2021 04:55 PM | DSX-8000 | S/N: 1932179

Tests	Detail	Status	Value	Limit	Margin
Insertion Loss (dB)	Pair 4,5, 1934.0 MHz	PASS	22.2	24.9	2.7
NEXT (dB)	Pair 4,5-7,8, 129.0 MHz	PASS	73.2	64.4	8.8
PS NEXT (dB)	Pair 4,5, 129.0 MHz	PASS	72.1	61.4	10.7
ACR-N (dB)	Pair 4,5-7,8, 129.0 MHz	PASS	68.6	58.5	10.1
PS ACR-N (dB)	Pair 4,5, 129.0 MHz	PASS	67.4	55.5	11.9
ACR-F (dB)	Pair 7,8-4,5, 745.0 MHz	PASS	55.9	36.1	19.8
PS ACR-F (dB)	Pair 4,5, 737.0 MHz	PASS	53.6	33.2	20.4
RL (dB)	Pair 4,5, 80.3 MHz	PASS	19.9	18.0	1.9
TCL (dB)	Pair 4,5, 70.8 MHz	PASS	32.3	18.6	13.7
CDNEXT (dB)	Pair 7,8-4,5, 1434.0 MHz		40.7		
CMRL (dB)	Pair 4,5, 1650.0 MHz		5.2		
ELTCTL (dB)	Pair 3,6, 2000.0 MHz	PASS	17.4	3.0	14.4
Length (m)	Pair 1,2		23.5		
Prop. Delay (ns)	Pair 3,6	PASS	111	147	36
Delay Skew (ns)	Pair 3,6	PASS	2	9	7
Resistance (ohms)	Pair 3,6	PASS	3.00	6.00	3.00
Resistance Unbalance (ohms)	Pair 1,2	PASS	0.010	0.200	0.190
Resistance P2P Unbalance (ohms)	Pair 3,6-7,8	PASS	0.009	0.200	0.191
Wire Map		PASS			

LINKWARE™PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 2 OCTO CAT8 ISO

Test Summary: PASS

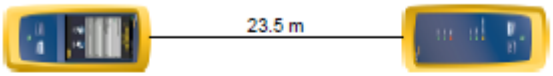
Test Limit: ISO11801 PL Class II (+All)
Limits Version: V7.6
Date / Time: 06/18/202| 04:55:36 PM
Operator: SIMONE CREMONINI
Headroom 8.8 dB (NEXT 4,5-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

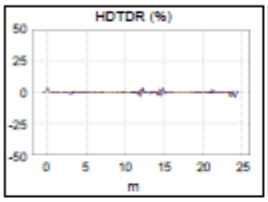
Main: Versiv
S/N: 1932179
Software Version: V6.6 Build 2
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

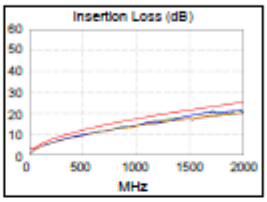
Remote: Versiv
S/N: 1932375
Software Version: V6.6 Build 2
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

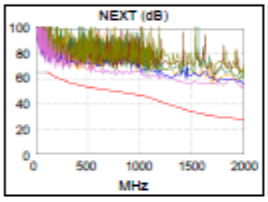
Wire Map	1 2 3 4 5 6 7 8 S
PASS	| | | | | | | | |
(T568B)	1 2 3 4 5 6 7 8 S

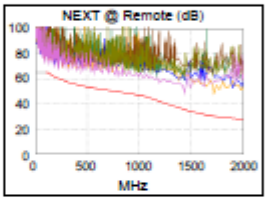
Length (m)	[Pair 1,2]	23.5
Prop. Delay (ns), Limit 147	[Pair 3,6]	111
Delay Skew (ns), Limit 9	[Pair 3,6]	2
Resistance (ohms), Limit 6.00	[Pair 3,6]	3.00
Resist. Unbal. (ohms), Limit 0.200	[Pair 1,2]	0.010
Resist. P2P Unbal. (ohms), Limit 0.200	[Pair 3,6-7,8]	0.009
Insertion Loss Margin (dB)	[Pair 4,5]	2.7
Frequency (MHz)	[Pair 4,5]	1934.0
Limit (dB)	[Pair 4,5]	24.9

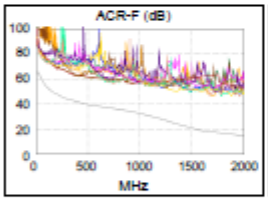


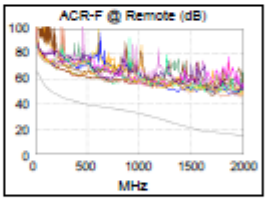


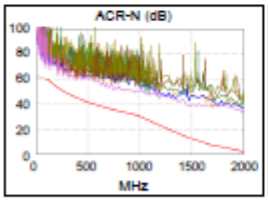


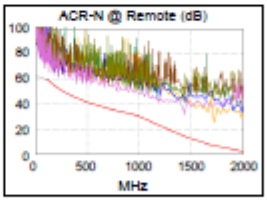


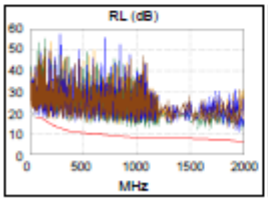


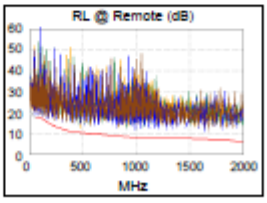












	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	1,2-3,6
NEXT (dB)	9.6	8.8	25.5	16.6
Freq. (MHz)	129.5	129.0	1982.	1718.
Limit (dB)	64.4	64.4	27.8	30.3
Worst Pair	7,8	4,5	7,8	1,2
PS NEXT (dB)	11.4	10.7	26.9	19.5
Freq. (MHz)	129.5	129.0	1982.	1718.
Limit (dB)	61.4	61.4	24.8	27.3
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-4,5	4,5-7,8	7,8-4,5	7,8-4,5
ACR-F (dB)	19.8	19.9	29.8	30.5
Freq. (MHz)	745.0	746.0	1968.	1968.
Limit (dB)	36.1	36.1	15.1	15.1
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	20.4	20.6	31.2	32.1
Freq. (MHz)	737.0	412.0	1968.	1930.
Limit (dB)	33.2	38.2	12.1	12.4
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	1,2-3,6
ACR-N (dB)	11.0	10.1	30.6	18.8
Freq. (MHz)	129.5	129.0	1982.	1720.
Limit (dB)	58.4	58.5	2.6	6.9
Worst Pair	4,5	4,5	4,5	3,6
PS ACR-N (dB)	12.8	11.9	31.0	21.8
Freq. (MHz)	129.0	129.0	1978.	1720.
Limit (dB)	55.5	55.5	-0.3	3.9
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	2.4	1.9	6.2	4.8
Freq. (MHz)	80.0	80.3	1960.	1632.
Limit (dB)	18.0	18.0	6.3	7.8

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	25GBASE-T	40GBASE-T
ATM-25	ATM-51	ATM-155
[illegible]	TR-4	TR-16 Active

LinkWare™ PC Version 10.8.1

Project: CAT8.2.1
Cat8 test 2.flw

FLUKE networks

LINKWARE™PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TERA + 2 OCTO CAT8 ISO

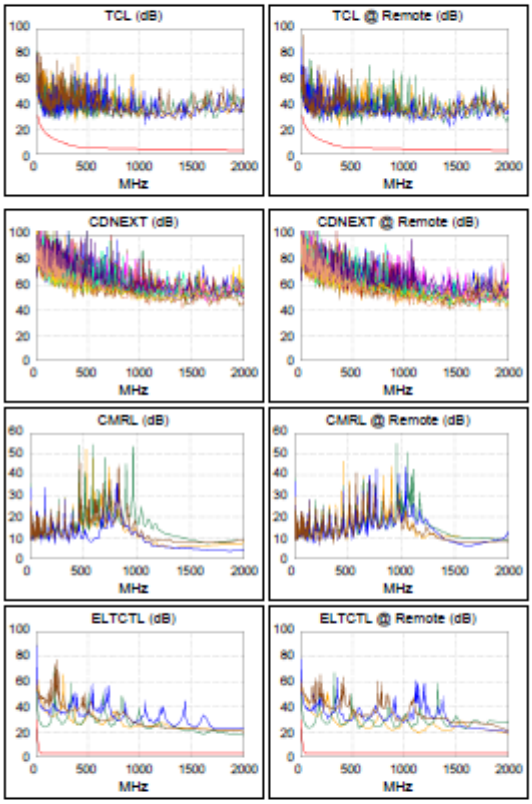
Test Summary: PASS

Test Limit: ISO11801 PL Class II (+All)
Limits Version: V7.6
Date / Time: 06/18/2021 04:55:36 PM
Operator: SIMONE CREMONINI
Headroom 8.8 dB (NEXT 4,5-7,8)
Cable Type: Cat 8 S/FTP
NVP: 72.0%

Main: Versiv
S/N: 1932179
Software Version: V6.6 Build 2
Calibration Date: 05/14/2020
Adapter: DSX-8000 (DSX-PLA-8-TERA)
S/N: 19470006

Remote: Versiv
S/N: 1932375
Software Version: V6.6 Build 2
Calibration Date: 05/12/2020
Adapter: DSX-8000R (DSX-PLA-8-TERA)
S/N: 19470005

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	1,2	1,2
TCL (dB)	13.7	13.8	18.4	16.1
Freq. (MHz)	70.8	25.3	372.0	370.0
Limit (dB)	18.6	26.2	6.3	6.3
N/A	MAIN	SR	MAIN	SR
Worst Pair			7,8-4,5	7,8-4,5
CDNEXT (dB)			40.7	36.4
Freq. (MHz)			1434.	1434.
Limit (dB)				
N/A	MAIN	SR	MAIN	SR
Worst Pair			4,5	4,5
CMRL (dB)			3.4	5.2
Freq. (MHz)			1886.	1650.
Limit (dB)				
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	1,2	3,6	1,2
ELTCTL (dB)	14.4	15.6	14.4	15.6
Freq. (MHz)	2000.	1996.	2000.	1996.
Limit (dB)	3.0	3.0	3.0	3.0



LinkWare™ PC Version 10.8.1

Project: CAT8 2.1
Cat8 test 2.flw

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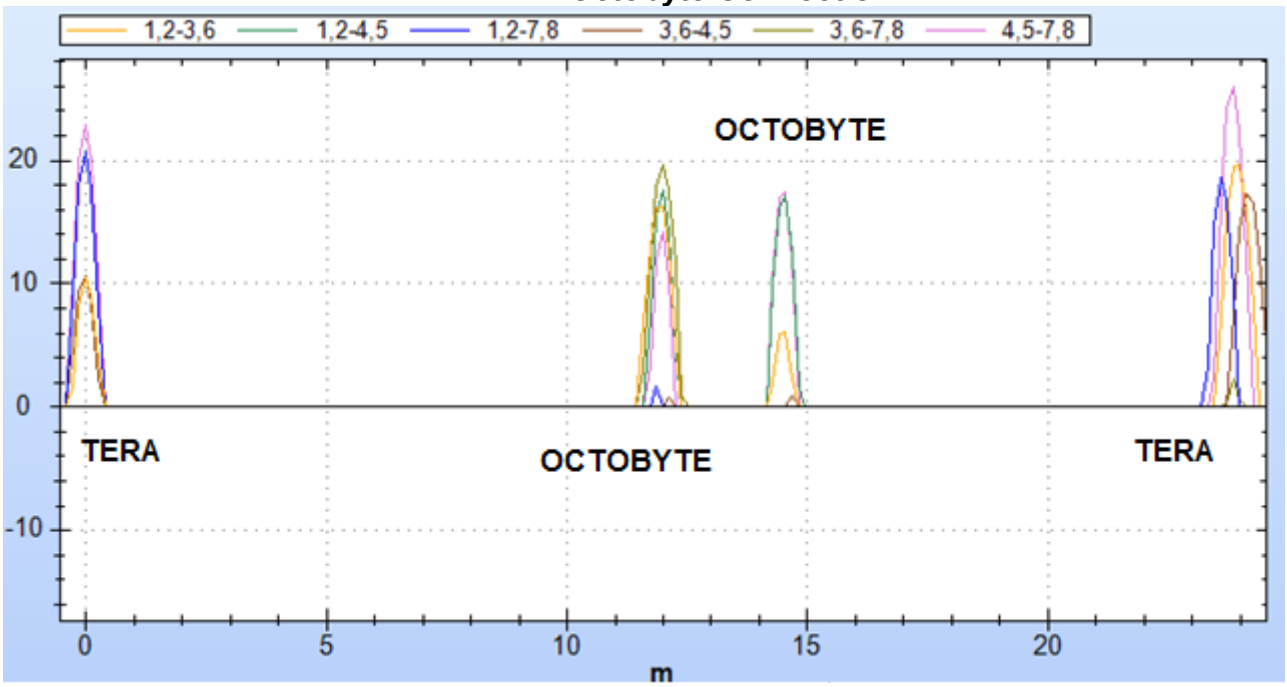
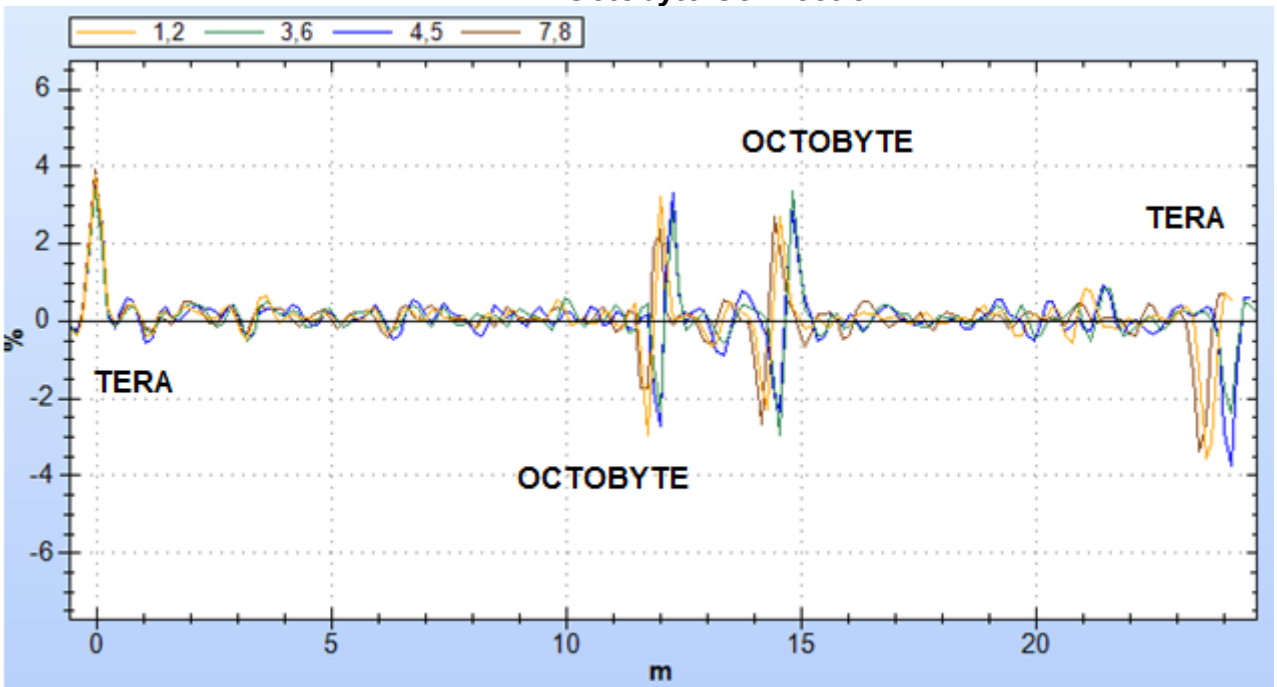
FLUKE networks

HDTDX – 2 Octobyte Connection



HDTDR – 2 Octobyte Connection



1.8. Comments / remarks – commenti / osservazioni

Test	Cable	1 Octobyte connection	2 Octobyte connections
TIA/EIA 568 CAT 8 Permanent Link	PASS	PASS	PASS
ISO11801 Class II Permanent Link 2	PASS	PASS	PASS