



UNIONE EUROPEA
Fondo sociale europeo
Fondo europeo di sviluppo regionale



Ministero dell'Istruzione

UFFICIO SCOLASTICO REGIONALE PER IL LAZIO

ISTITUTO COMPRENSIVO DI SANT'ELIA FIUMERAPIDO

SCUOLA DELL'INFANZIA – PRIMARIA – SECONDARIA DI PRIMO GRADO

C.F. 90032250608 – Cod.Mecc. FRIC857001 -C.U.U. UFZX3 E-mail: fric857001@istruzione.it - fric857001@pec.istruzione.it

Sito web: - <https://www.icsantelia.edu.it/web/> - Sede Legale: Via IV Novembre snc – 03049 - SANT'ELIA FIUMERAPIDO (FR) – tel. 0776350200

Prot. n. vedi segnatura

S. Elia Fiumerapido, vedi segnatura

**Al Sito Web dell'Istituto
Al Collaudatore**

Agli Atti

PROGETTO: "Cablaggio strutturato e sicuro all'interno degli edifici scolastici"

CIP: 13.1.1A-FESRPON-LA-2021-239

CUP: H79J21004410006

Fondi Strutturali Europei – Programma Operativo Nazionale "Per la scuola, competenze e ambienti per l'apprendimento" 2014-2020. Asse II - Infrastrutture per l'istruzione – Fondo Europeo di Sviluppo Regionale (FESR) – REACT EU.

Asse V – Priorità d'investimento: 13i – (FESR) "Promuovere il superamento degli effetti della crisi nel contesto della pandemia di COVID-19 e delle sue conseguenze sociali e preparare una ripresa verde, digitale e resiliente dell'economia" – Obiettivo specifico 13.1: Facilitare una ripresa verde, digitale e resiliente dell'economia - Azione 13.1.1 "Cablaggio strutturato e sicuro all'interno degli edifici scolastici"– Avviso pubblico prot.n. 20480 del 20/07/2021 per la realizzazione di reti locali, cablate e wireless, nelle scuole.

OGGETTO: CERTIFICAZIONE RETE LAN PLESSO VALLEROTONDA.

Si acquisisce agli atti del progetto la certificazione in oggetto che qui si allega, rilasciata dalla ditta affidataria in data odierna.

Cordiali saluti



**Il Dirigente Scolastico
dott. Nazario Malandrino**

Firma autografa sostituita a mezzo stampa ai sensi dell'art. 3, comma 2, del D.Lgs. 39/93

ID Cavo	Sommario	Limite di test	Lunghezza	Spazio Limite	Data / Ora
RACK A - 01	PASSATO	TIA Cat 6 Perm. Link (+All)	21.3 m	4.3 dB (NEXT)	20/12/2022 12:22
RACK A - 02	PASSATO	TIA Cat 6 Perm. Link (+All)	11.2 m	5.8 dB (NEXT)	20/12/2022 12:23
RACK A - 03	PASSATO	TIA Cat 6 Perm. Link (+All)	5.0 m	3.1 dB (NEXT)	20/12/2022 12:21
RACK A - 04	PASSATO	TIA Cat 6 Perm. Link (+All)	18.4 m	4.5 dB (NEXT)	20/12/2022 12:24
RACK A - 05	PASSATO	TIA Cat 6 Perm. Link (+All)	30.8 m	5.7 dB (NEXT)	20/12/2022 12:26
RACK A - 06	PASSATO	TIA Cat 6 Perm. Link (+All)	37.4 m	3.9 dB (NEXT)	20/12/2022 12:27
RACK A - 07	PASSATO	TIA Cat 6 Perm. Link (+All)	49.6 m	5.4 dB (NEXT)	20/12/2022 12:28

Lunghezza Totale:	173.7 m
Numero di Rapporti:	7
Numero dei Rapporti Passati:	7
Numero dei Rapporti Falliti:	0
Numero di Reports Warning:	0
Solo Documentazione:	0



ID Cavo: RACK A - 01

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:22:40

Nome Dell'Operatore: NATALE

Spazio Limite 4.3 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Lunghezza (m), Lim. 90.0	[Cop. 7,8]	21.3
Ritardo prop. (ns), Lim. 498	[Cop. 4,5]	108
Skew di Ritardo (ns), Lim. 44	[Cop. 4,5]	5
Resistenza (ohm), Lim. 21.00	[Cop. 3,6]	3.96
Res. non unif. (ohm), Lim. 0.200	[Cop. 3,6]	0.033
Non unif. resist. P2P (ohm), Lim. 0.200	[Cop. 1,2-3,6]	0.049
Atten. inser. Margine (dB)	[Cop. 4,5]	24.4
Frequenza (MHz)	[Cop. 4,5]	250.0
Limite (dB)	[Cop. 4,5]	31.1



21.3 m

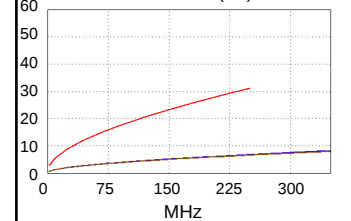


Schema collegamenti (T568B)

PASSATO

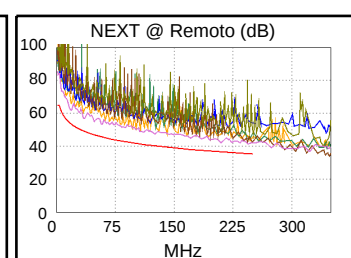
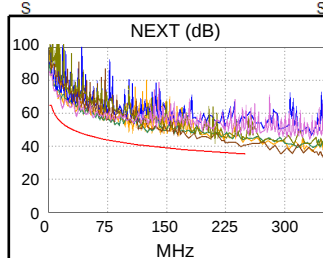


Atten. inser. (dB)

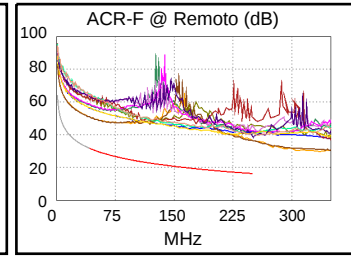
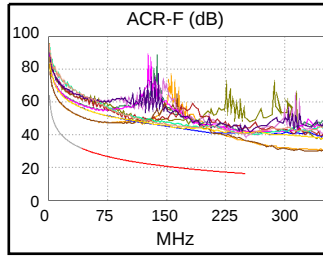


Margine Peggior Valore Peggior

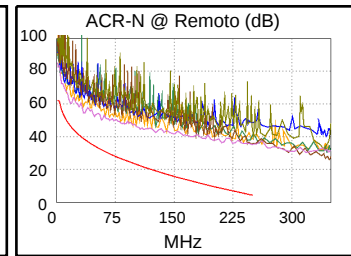
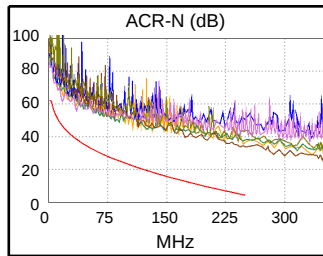
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6-4,5	4,5-7,8	3,6-4,5	4,5-7,8
NEXT (dB)	4.3	5.5	4.4	5.7
Freq. (MHz)	249.5	210.0	250.0	244.0
Limite (dB)	35.4	36.6	35.3	35.5
Coppia Peggior	3,6	4,5	3,6	4,5
PS NEXT (dB)	5.1	4.7	5.1	4.7
Freq. (MHz)	248.0	244.0	248.0	244.0
Limite (dB)	32.8	32.9	32.8	32.9



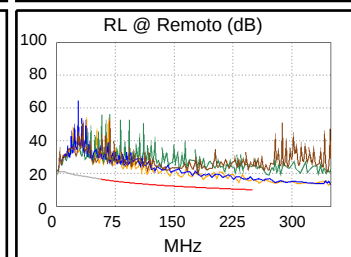
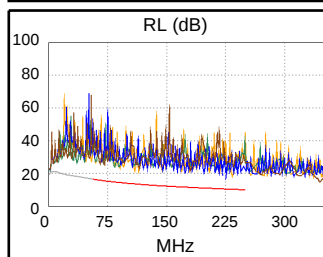
PASSATO	princi	SR	princi	SR
Coppia Peggior	1,2-3,6	3,6-1,2	1,2-3,6	3,6-1,2
ACR-F (dB)	18.4	18.4	20.2	20.2
Freq. (MHz)	18.4	19.8	250.0	250.0
Limite (dB)	38.9	38.3	16.2	16.2
Coppia Peggior	1,2	1,2	1,2	1,2
PS ACR-F (dB)	19.2	19.6	21.1	21.1
Freq. (MHz)	1.3	3.3	250.0	250.0
Limite (dB)	59.3	51.0	13.2	13.2



N/P	princi	SR	princi	SR
Coppia Peggior	4,5-7,8	4,5-7,8	3,6-4,5	4,5-7,8
ACR-N (dB)	14.8	14.0	28.8	29.9
Freq. (MHz)	17.1	18.4	250.0	244.0
Limite (dB)	46.8	46.1	4.2	4.8
Coppia Peggior	4,5	4,5	3,6	4,5
PS ACR-N (dB)	16.3	15.9	29.3	28.8
Freq. (MHz)	17.1	17.9	246.0	244.0
Limite (dB)	44.5	44.0	2.0	2.2



PASSATO	princi	SR	princi	SR
Coppia Peggior	1,2	1,2	1,2	1,2
RL (dB)	7.8	4.1	7.8	4.1
Freq. (MHz)	233.5	233.0	233.5	233.0
Limite (dB)	10.3	10.3	10.3	10.3



Conformità Network Standards:

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

Progetto: CASSINO SEDE VALLERO...
Impianto: Non impostata
Piano: Non impostata
Armadio: Non impostata
Senza Titolo1

Edificio: Non impostata
Stanza: Non impostata
Patch: Non impostata

FLUKE
networks®



ID Cavo: RACK A - 01

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:22:40

Nome Dell'Operatore: NATALE

Spazio Limite 4.3 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

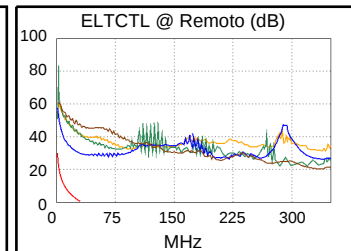
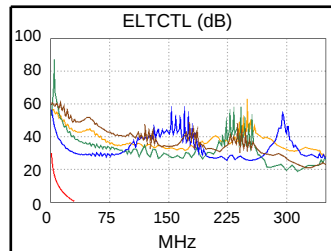
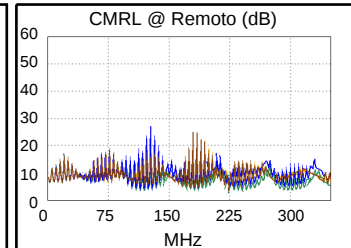
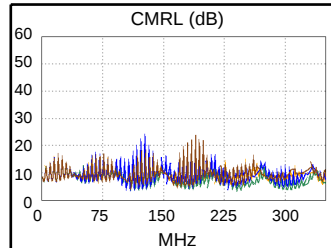
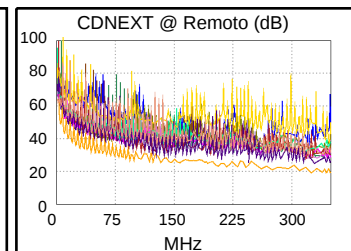
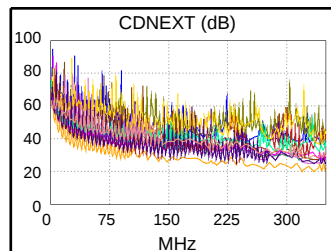
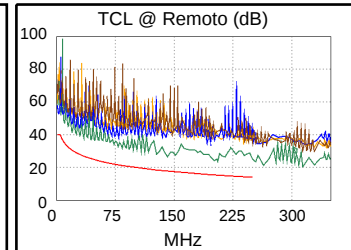
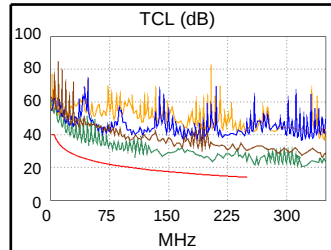
Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Margine Peggior			Valore Peggior	
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6	3,6	3,6	3,6
TCL (dB)	8.2	8.3	8.2	8.4
Freq. (MHz)	205.0	137.0	205.0	205.5
Limite (dB)	15.3	17.9	15.3	15.3
N/P	princi	SR	princi	SR
Coppia Peggior			1,2-3,6	1,2-3,6
CDNEXT (dB)			19.2	19.1
Freq. (MHz)			325.0	325.0
Limite (dB)				
N/P	princi	SR	princi	SR
Coppia Peggior			3,6	3,6
CMRL (dB)			3.5	3.5
Freq. (MHz)			240.5	240.5
Limite (dB)				
PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6	3,6	4,5	4,5
ELTCTL (dB)	22.7	20.9	29.6	29.3
Freq. (MHz)	1.0	1.0	30.0	30.0
Limite (dB)	30.0	30.0	0.5	0.5





ID Cavo: RACK A - 02

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:23:47

Nome Dell'Operatore: NATALE

Spazio Limite 5.8 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Lunghezza (m), Lim. 90.0	[Cop. 1,2]	11.2
Ritardo prop. (ns), Lim. 498	[Cop. 3,6]	56
Skew di Ritardo (ns), Lim. 44	[Cop. 3,6]	2
Resistenza (ohm), Lim. 21.00	[Cop. 3,6]	2.23
Res. non unif. (ohm), Lim. 0.200	[Cop. 3,6]	0.037
Non unif. resist. P2P (ohm), Lim. 0.200	[Cop. 1,2-3,6]	0.047
Atten. inser. Margine (dB)	[Cop. 3,6]	27.2
Frequenza (MHz)	[Cop. 3,6]	247.5
Limite (dB)	[Cop. 3,6]	30.9



11.2 m

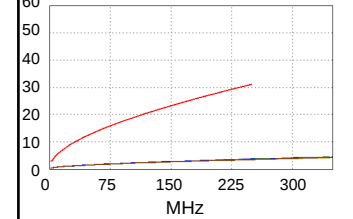


Schema collegamenti (T568B)

PASSATO

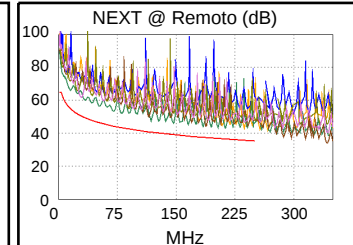
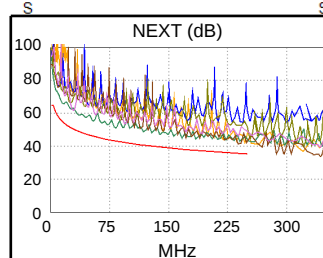


Atten. inser. (dB)

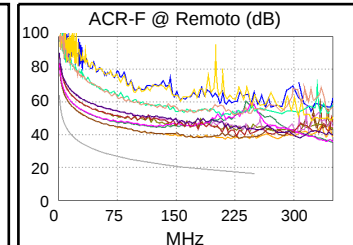
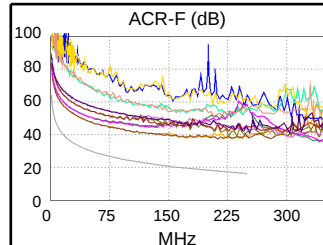


Margine Peggior Valore Peggior

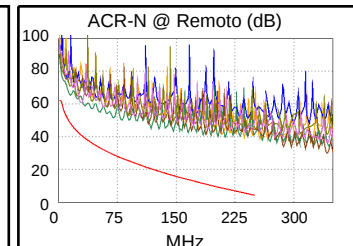
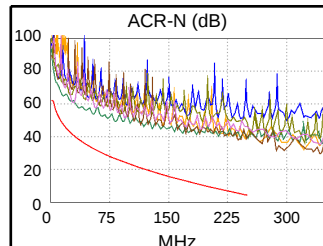
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6-4,5	1,2-4,5	3,6-4,5	1,2-3,6
NEXT (dB)	5.8	6.6	5.8	7.4
Freq. (MHz)	238.5	213.0	238.5	237.0
Limite (dB)	35.7	36.5	35.7	35.7
Coppia Peggior	4,5	4,5	4,5	4,5
PS NEXT (dB)	5.9	7.4	5.9	7.5
Freq. (MHz)	241.5	241.5	241.5	242.0
Limite (dB)	33.0	33.0	33.0	32.9



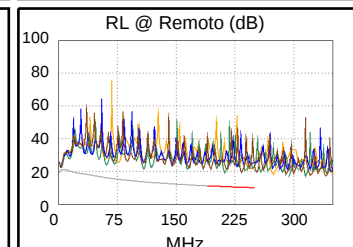
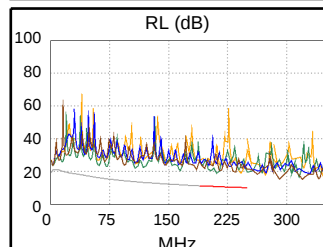
PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6-1,2	1,2-3,6	3,6-1,2	1,2-3,6
ACR-F (dB)	17.5	17.5	19.6	19.5
Freq. (MHz)	56.3	6.8	212.0	212.0
Limite (dB)	29.2	47.6	17.7	17.7
Coppia Peggior	1,2	1,2	3,6	3,6
PS ACR-F (dB)	18.5	18.6	22.5	21.4
Freq. (MHz)	6.8	12.8	245.0	236.0
Limite (dB)	44.6	39.1	13.4	13.7



N/P	princi	SR	princi	SR
Coppia Peggior	1,2-4,5	1,2-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	17.1	16.5	32.7	34.0
Freq. (MHz)	14.5	4.5	238.5	237.0
Limite (dB)	48.6	59.5	5.4	5.6
Coppia Peggior	4,5	1,2	4,5	4,5
PS ACR-N (dB)	18.4	18.2	33.0	34.6
Freq. (MHz)	7.3	4.5	241.5	242.0
Limite (dB)	53.0	57.3	2.5	2.4



PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6	3,6	3,6	3,6
RL (dB)	7.8	8.2	7.8	8.2
Freq. (MHz)	212.0	212.5	212.0	212.5
Limite (dB)	10.7	10.7	10.7	10.7



Conformità Network Standards:

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

LinkWare™ PC Versione 11.2

Progetto: CASSINO SEDE VALLERO...

Impianto: Non impostata

Piano: Non impostata

Armadio: Non impostata

Senza Titolo1

Edificio: Non impostata

Stanza: Non impostata

Patch: Non impostata



ID Cavo: RACK A - 02

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:23:47

Nome Dell'Operatore: NATALE

Spazio Limite 5.8 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

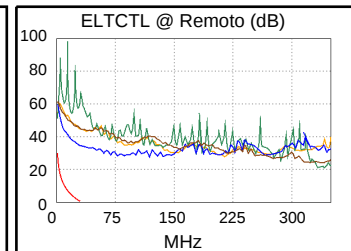
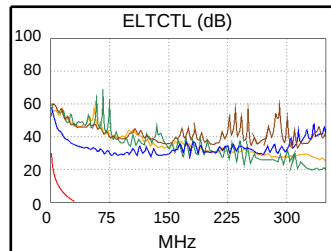
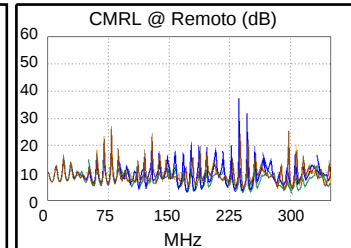
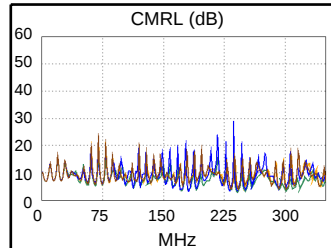
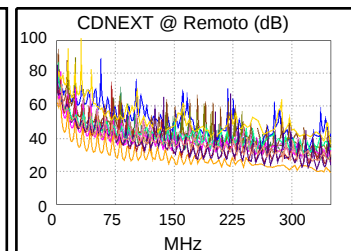
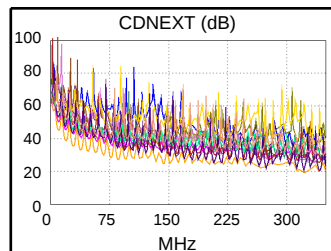
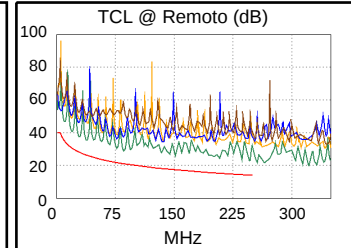
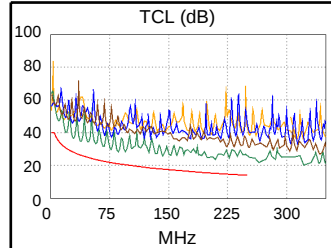
Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Margine Peggior			Valore Peggior	
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6	3,6	3,6	3,6
TCL (dB)	7.3	7.9	8.5	8.3
Freq. (MHz)	86.0	86.3	209.5	246.5
Limite (dB)	21.0	21.0	15.2	14.1
N/P	princi	SR	princi	SR
Coppia Peggior			1,2-3,6	1,2-3,6
CDNEXT (dB)			19.2	19.5
Freq. (MHz)			323.0	349.0
Limite (dB)				
N/P	princi	SR	princi	SR
Coppia Peggior			3,6	3,6
CMRL (dB)			2.8	2.8
Freq. (MHz)			241.0	172.0
Limite (dB)				
PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6	3,6	4,5	4,5
ELTCTL (dB)	22.5	21.0	34.7	34.2
Freq. (MHz)	1.0	1.0	30.0	30.0
Limite (dB)	30.0	30.0	0.5	0.5





ID Cavo: RACK A - 03

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:21:39

Nome Dell'Operatore: NATALE

Spazio Limite 3.1 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Lunghezza (m), Lim. 90.0	[Cop. 7,8]	5.0
Ritardo prop. (ns), Lim. 498	[Cop. 3,6]	25
Skew di Ritardo (ns), Lim. 44	[Cop. 1,2]	1
Resistenza (ohm), Lim. 21.00	[Cop. 3,6]	1.11
Res. non unif. (ohm), Lim. 0.200	[Cop. 3,6]	0.032
Non unif. resist. P2P (ohm), Lim. 0.200	[Cop. 1,2-3,6]	0.038
Atten. inser. Margine (dB)	[Cop. 7,8]	29.3
Frequenza (MHz)	[Cop. 7,8]	250.0
Limite (dB)	[Cop. 7,8]	31.1



5.0 m

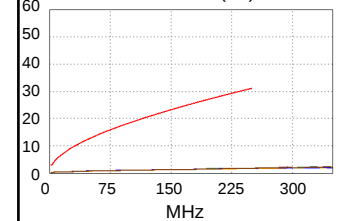


Schema collegamenti (T568B)

PASSATO

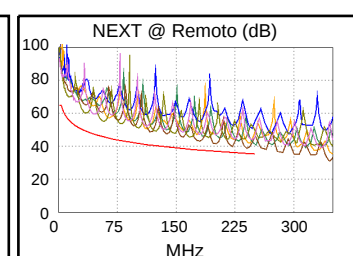
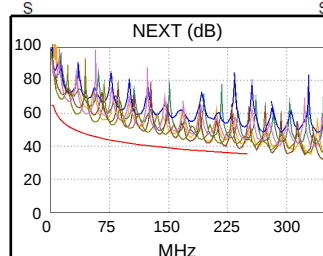


Atten. inser. (dB)

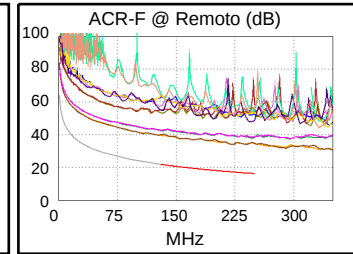
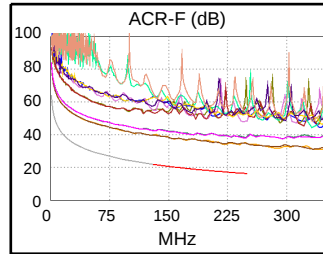


Margine Peggior Valore Peggior

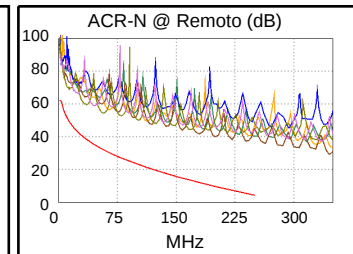
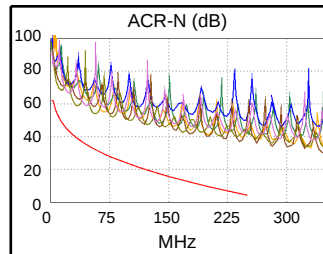
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
NEXT (dB)	3.1	3.2	3.1	3.2
Freq. (MHz)	241.5	241.0	241.5	241.0
Limite (dB)	35.6	35.6	35.6	35.6
Coppia Peggior	3,6	3,6	3,6	3,6
PS NEXT (dB)	3.0	3.9	3.0	3.9
Freq. (MHz)	241.5	241.5	241.5	241.5
Limite (dB)	33.0	33.0	33.0	33.0



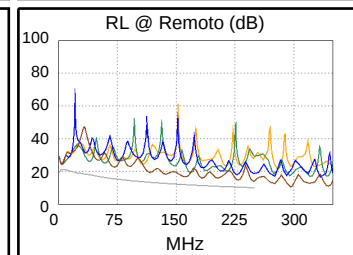
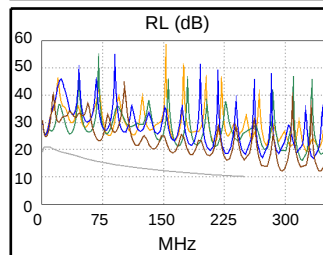
PASSATO	princi	SR	princi	SR
Coppia Peggior	1,2-3,6	3,6-1,2	1,2-3,6	3,6-1,2
ACR-F (dB)	16.6	16.7	17.4	17.5
Freq. (MHz)	222.0	222.0	241.0	241.0
Limite (dB)	17.3	17.3	16.5	16.5
Coppia Peggior	1,2	1,2	1,2	1,2
PS ACR-F (dB)	18.5	18.4	19.4	19.4
Freq. (MHz)	105.0	1.5	240.0	241.0
Limite (dB)	20.8	57.7	13.6	13.5



N/P	princi	SR	princi	SR
Coppia Peggior	3,6-7,8	3,6-7,8	3,6-4,5	3,6-4,5
ACR-N (dB)	17.7	18.8	32.0	32.1
Freq. (MHz)	9.1	10.8	241.5	241.0
Limite (dB)	53.2	51.6	5.1	5.1
Coppia Peggior	3,6	3,6	3,6	3,6
PS ACR-N (dB)	18.9	19.8	31.8	32.7
Freq. (MHz)	9.1	10.8	241.5	241.5
Limite (dB)	50.8	49.2	2.5	2.5



N/P	princi	SR	princi	SR
Coppia Peggior	7,8	1,2	7,8	7,8
RL (dB)	3.7	3.2	5.5	3.8
Freq. (MHz)	5.3	4.5	229.0	249.5
Limite (dB)	21.0	21.0	10.4	10.0



Conformità Network Standards:

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

Progetto: CASSINO SEDE VALLERO...

Impianto: Non impostata

Piano: Non impostata

Armadio: Non impostata

Senza Titolo1

Edificio: Non impostata

Stanza: Non impostata

Patch: Non impostata



ID Cavo: RACK A - 03

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:21:39

Nome Dell'Operatore: NATALE

Spazio Limite 3.1 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

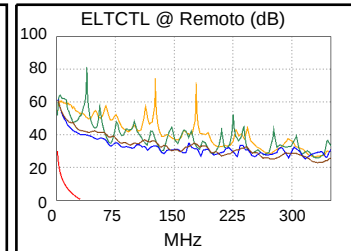
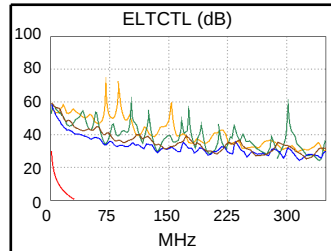
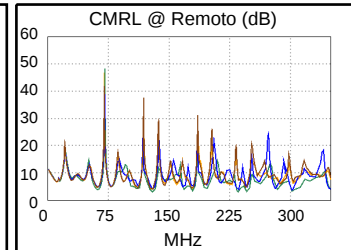
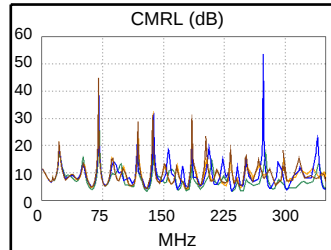
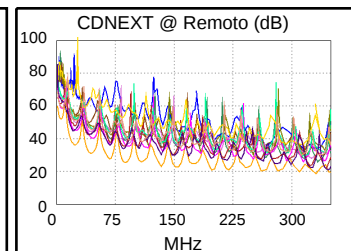
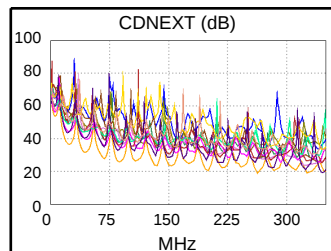
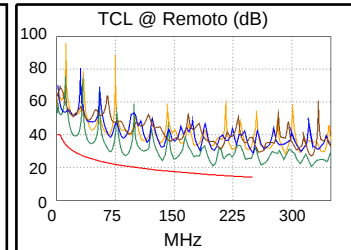
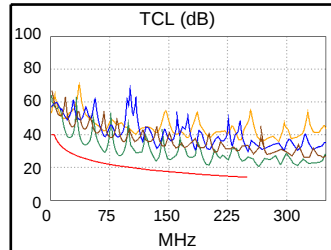
Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Margine Peggior			Valore Peggior	
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6	3,6	3,6	3,6
TCL (dB)	5.7	5.5	5.7	5.5
Freq. (MHz)	200.5	200.5	200.5	200.5
Limite (dB)	15.5	15.5	15.5	15.5
N/P	princi	SR	princi	SR
Coppia Peggior			1,2-3,6	1,2-3,6
CDNEXT (dB)			18.4	18.3
Freq. (MHz)			328.0	329.0
Limite (dB)				
N/P	princi	SR	princi	SR
Coppia Peggior			3,6	3,6
CMRL (dB)			3.0	2.9
Freq. (MHz)			235.0	129.0
Limite (dB)				
PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6	3,6	4,5	4,5
ELTCTL (dB)	23.0	21.8	40.3	39.7
Freq. (MHz)	1.0	1.0	30.0	30.0
Limite (dB)	30.0	30.0	0.5	0.5





ID Cavo: RACK A - 04

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:24:59

Nome Dell'Operatore: NATALE

Spazio Limite 4.5 dB (NEXT 1,2-3,6)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Lunghezza (m), Lim. 90.0	[Cop. 7,8]	18.4
Ritardo prop. (ns), Lim. 498	[Cop. 4,5]	93
Skew di Ritardo (ns), Lim. 44	[Cop. 3,6]	4
Resistenza (ohm), Lim. 21.00	[Cop. 3,6]	3.49
Res. non unif. (ohm), Lim. 0.200	[Cop. 3,6]	0.034
Non unif. resist. P2P (ohm), Lim. 0.200	[Cop. 1,2-3,6]	0.048
Atten. inser. Margine (dB)	[Cop. 3,6]	25.3
Frequenza (MHz)	[Cop. 3,6]	250.0
Limite (dB)	[Cop. 3,6]	31.1



18.4 m

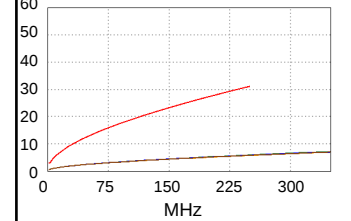


Schema collegamenti (T568B)

PASSATO

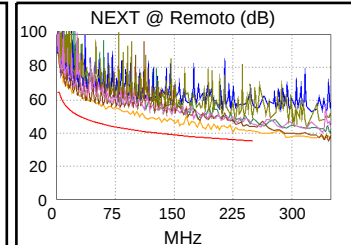
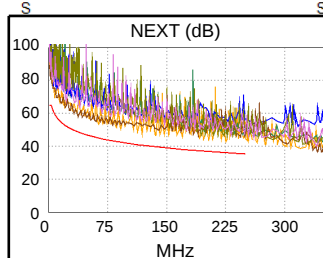


Atten. inser. (dB)

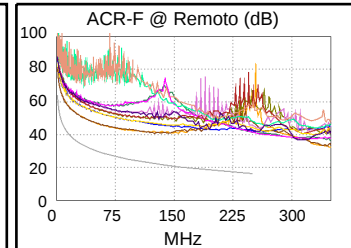
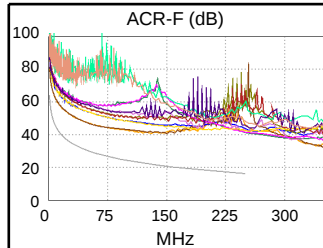


Margine Peggior Valore Peggior

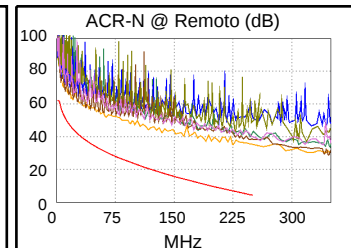
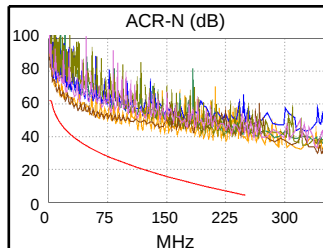
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	1,2-3,6	1,2-3,6	1,2-3,6	1,2-3,6
NEXT (dB)	6.8	4.5	6.8	4.5
Freq. (MHz)	226.0	225.0	226.0	225.0
Limite (dB)	36.1	36.1	36.1	36.1
Coppia Peggior	3,6	1,2	1,2	3,6
PS NEXT (dB)	7.8	6.1	8.2	6.3
Freq. (MHz)	141.5	225.0	226.0	250.0
Limite (dB)	36.8	33.5	33.4	32.7



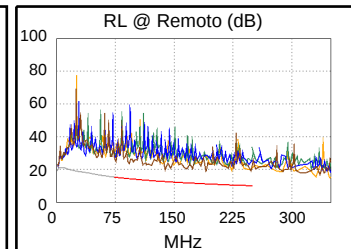
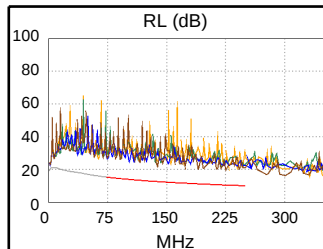
PASSATO	princi	SR	princi	SR
Coppia Peggior	1,2-3,6	3,6-1,2	1,2-3,6	1,2-3,6
ACR-F (dB)	16.1	16.1	18.5	19.9
Freq. (MHz)	13.6	13.6	125.5	150.0
Limite (dB)	41.5	41.5	22.2	20.7
Coppia Peggior	3,6	1,2	1,2	1,2
PS ACR-F (dB)	17.9	18.0	25.7	25.8
Freq. (MHz)	1.1	5.3	249.0	250.0
Limite (dB)	60.2	46.8	13.3	13.2



N/P	princi	SR	princi	SR
Coppia Peggior	1,2-3,6	1,2-3,6	1,2-3,6	1,2-3,6
ACR-N (dB)	14.7	16.2	30.7	30.0
Freq. (MHz)	7.6	8.4	226.0	241.5
Limite (dB)	54.8	54.0	6.7	5.1
Coppia Peggior	3,6	3,6	3,6	3,6
PS ACR-N (dB)	15.8	16.5	32.1	31.6
Freq. (MHz)	7.6	6.0	226.5	250.0
Limite (dB)	52.5	54.7	4.0	1.6



PASSATO	princi	SR	princi	SR
Coppia Peggior	7,8	7,8	7,8	7,8
RL (dB)	8.9	7.2	9.4	7.7
Freq. (MHz)	226.0	138.5	248.5	190.5
Limite (dB)	10.5	12.6	10.0	11.2



Conformità Network Standards:

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

LinkWare™ PC Versione 11.2

Progetto: CASSINO SEDE VALLERO...
Impianto: Non impostata
Piano: Non impostata
Armadio: Non impostata
Senza Titolo1

Edificio: Non impostata
Stanza: Non impostata
Patch: Non impostata

FLUKE
networks®



ID Cavo: RACK A - 04

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:24:59

Nome Dell'Operatore: NATALE

Spazio Limite 4.5 dB (NEXT 1,2-3,6)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

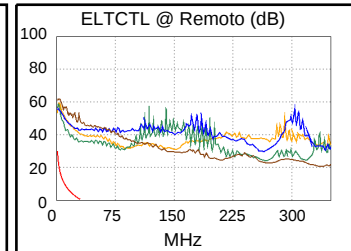
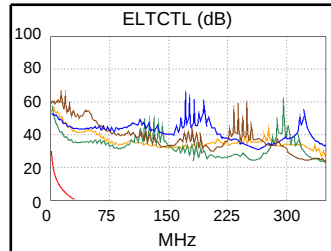
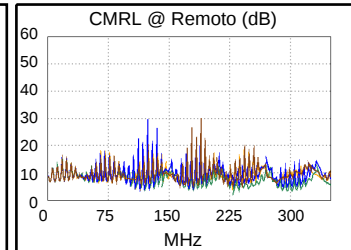
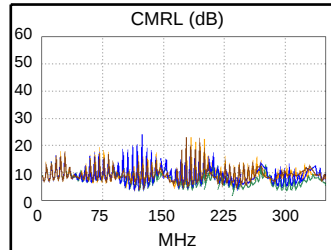
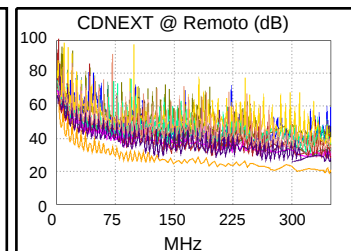
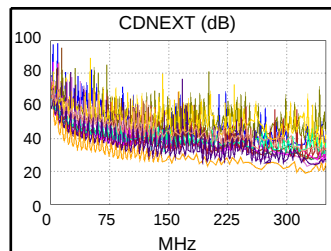
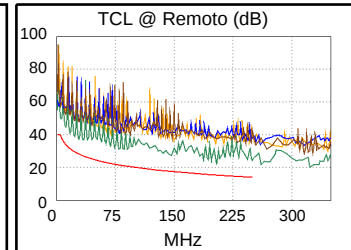
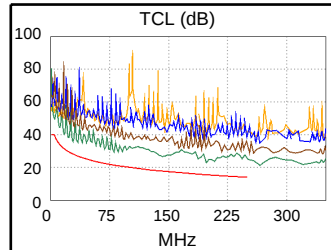
Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Margine Peggior			Valore Peggior	
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6	3,6	3,6	3,6
TCL (dB)	7.2	6.9	7.2	6.9
Freq. (MHz)	203.0	204.0	203.0	204.0
Limite (dB)	15.4	15.4	15.4	15.4
N/P	princi	SR	princi	SR
Coppia Peggior			1,2-3,6	1,2-3,6
CDNEXT (dB)			19.0	18.9
Freq. (MHz)			324.0	348.0
Limite (dB)				
N/P	princi	SR	princi	SR
Coppia Peggior			3,6	3,6
CMRL (dB)			3.4	3.3
Freq. (MHz)			302.0	296.0
Limite (dB)				
PASSATO	princi	SR	princi	SR
Coppia Peggior	4,5	1,2	3,6	3,6
ELTCTL (dB)	22.8	23.1	34.4	34.6
Freq. (MHz)	1.0	1.0	29.0	28.1
Limite (dB)	30.0	30.0	0.8	1.0





ID Cavo: RACK A - 05

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:26:07

Nome Dell'Operatore: NATALE

Spazio Limite 5.7 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Lunghezza (m), Lim. 90.0	[Cop. 7,8]	30.8
Ritardo prop. (ns), Lim. 498	[Cop. 4,5]	156
Skew di Ritardo (ns), Lim. 44	[Cop. 3,6]	7
Resistenza (ohm), Lim. 21.00	[Cop. 3,6]	5.64
Res. non unif. (ohm), Lim. 0.200	[Cop. 3,6]	0.035
Non unif. resist. P2P (ohm), Lim. 0.200	[Cop. 3,6-7,8]	0.057
Atten. inser. Margine (dB)	[Cop. 4,5]	21.5
Frequenza (MHz)	[Cop. 4,5]	250.0
Limite (dB)	[Cop. 4,5]	31.1



30.8 m

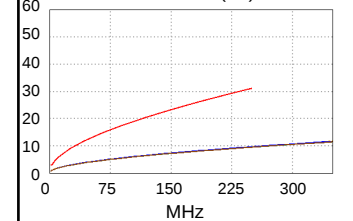


Schema collegamenti (T568B)

PASSATO

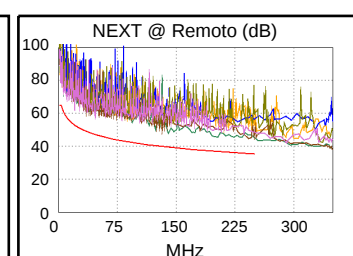
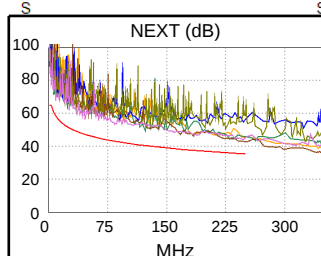


Atten. inser. (dB)

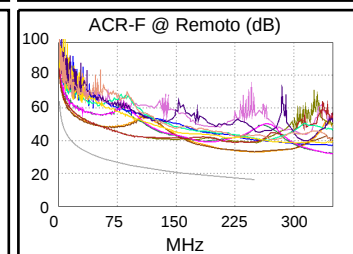
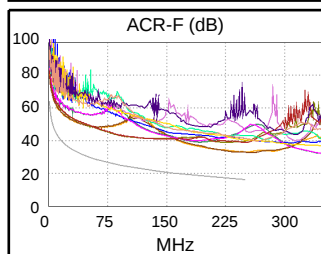


Margine Peggior Valore Peggior

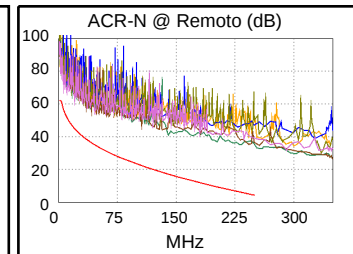
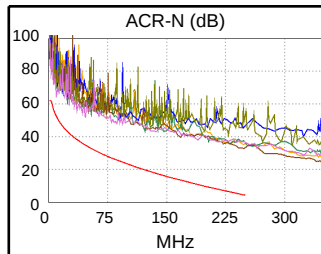
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6-4,5	1,2-4,5	3,6-4,5	1,2-4,5
NEXT (dB)	5.7	7.9	5.7	7.9
Freq. (MHz)	242.5	230.0	242.5	230.0
Limite (dB)	35.6	35.9	35.6	35.9
Coppia Peggior	4,5	4,5	4,5	4,5
PS NEXT (dB)	6.4	8.3	6.4	8.3
Freq. (MHz)	246.5	246.5	246.5	246.5
Limite (dB)	32.8	32.8	32.8	32.8



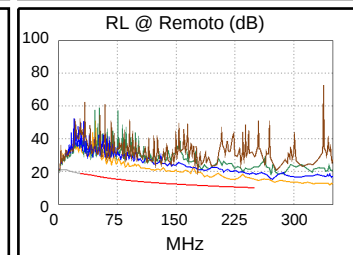
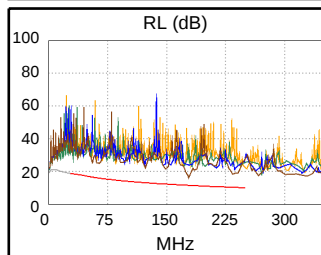
PASSATO	princi	SR	princi	SR
Coppia Peggior	1,2-3,6	3,6-1,2	3,6-1,2	1,2-3,6
ACR-F (dB)	16.2	16.2	16.7	16.8
Freq. (MHz)	7.5	7.5	249.5	249.5
Limite (dB)	46.7	46.7	16.2	16.2
Coppia Peggior	1,2	3,6	3,6	3,6
PS ACR-F (dB)	17.1	17.3	18.7	18.7
Freq. (MHz)	1.0	1.0	249.0	249.5
Limite (dB)	61.2	61.2	13.3	13.2



N/P	princi	SR	princi	SR
Coppia Peggior	4,5-7,8	4,5-7,8	3,6-4,5	1,2-4,5
ACR-N (dB)	12.8	13.5	26.9	30.3
Freq. (MHz)	9.9	6.6	242.5	250.0
Limite (dB)	52.4	56.1	5.0	4.2
Coppia Peggior	4,5	4,5	4,5	4,5
PS ACR-N (dB)	13.2	14.0	27.7	29.6
Freq. (MHz)	9.9	6.6	246.5	246.5
Limite (dB)	50.1	53.8	2.0	2.0



PASSATO	princi	SR	princi	SR
Coppia Peggior	7,8	1,2	7,8	1,2
RL (dB)	4.5	4.4	4.5	4.4
Freq. (MHz)	178.5	227.0	178.5	227.0
Limite (dB)	11.5	10.4	11.5	10.4



Conformità Network Standards:

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

LinkWare™ PC Versione 11.2

Progetto: CASSINO SEDE VALLERO...

Impianto: Non impostata

Piano: Non impostata

Armadio: Non impostata

Senza Titolo1

Edificio: Non impostata

Stanza: Non impostata

Patch: Non impostata



ID Cavo: RACK A - 05

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:26:07

Nome Dell'Operatore: NATALE

Spazio Limite 5.7 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

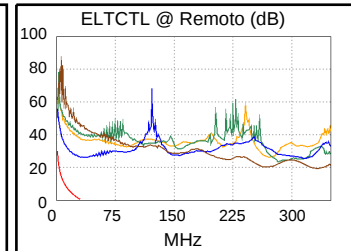
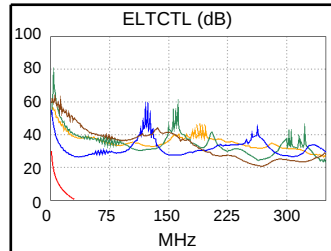
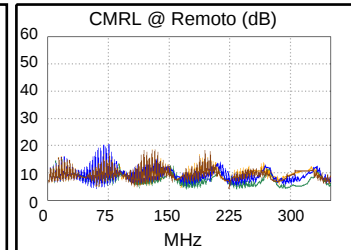
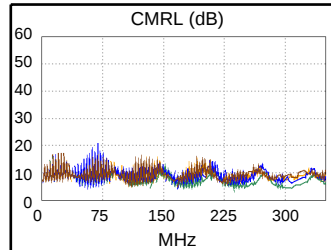
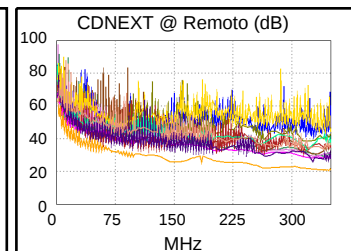
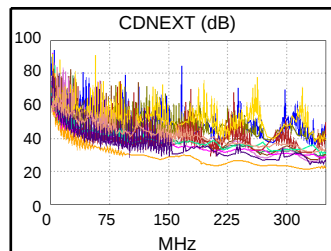
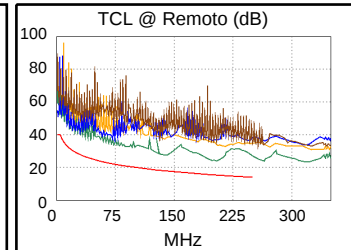
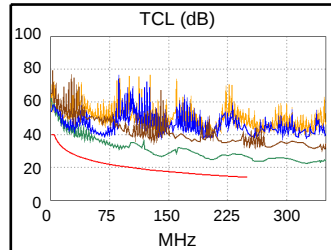
Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Margine Peggior		Valore Peggior	
PASSATO		princi	SR
Coppia Peggior	3,6	3,6	3,6
TCL (dB)	8.6	8.5	9.1
Freq. (MHz)	140.5	144.0	204.5
Limite (dB)	17.8	17.6	15.3
N/P		princi	SR
Coppia Peggior		1,2-3,6	1,2-3,6
CDNEXT (dB)		20.8	20.5
Freq. (MHz)		326.0	347.0
Limite (dB)			
N/P		princi	SR
Coppia Peggior		3,6	3,6
CMRL (dB)		4.2	4.2
Freq. (MHz)		175.0	178.5
Limite (dB)			
PASSATO		princi	SR
Coppia Peggior	3,6	3,6	4,5
ELTCTL (dB)	22.3	20.0	26.2
Freq. (MHz)	1.0	1.0	30.0
Limite (dB)	30.0	30.0	0.5





ID Cavo: RACK A - 06

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:27:10

Nome Dell'Operatore: NATALE

Spazio Limite 3.9 dB (NEXT 1,2-3,6)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Lunghezza (m), Lim. 90.0	[Cop. 7,8]	37.4
Ritardo prop. (ns), Lim. 498	[Cop. 4,5]	190
Skew di Ritardo (ns), Lim. 44	[Cop. 4,5]	9
Resistenza (ohm), Lim. 21.00	[Cop. 3,6]	6.76
Res. non unif. (ohm), Lim. 0.200	[Cop. 3,6]	0.032
Non unif. resist. P2P (ohm), Lim. 0.230	[Cop. 3,6-7,8]	0.061
Atten. inser. Margine (dB)	[Cop. 4,5]	19.5
Frequenza (MHz)	[Cop. 4,5]	250.0
Limite (dB)	[Cop. 4,5]	31.1



37.4 m

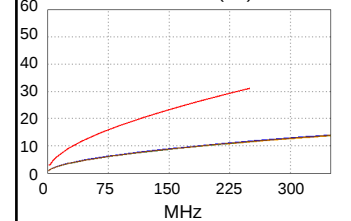


Schema collegamenti (T568B)

PASSATO

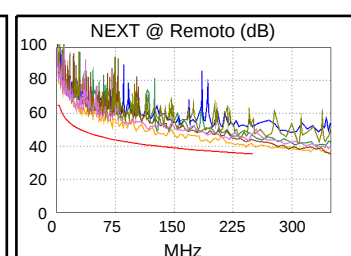
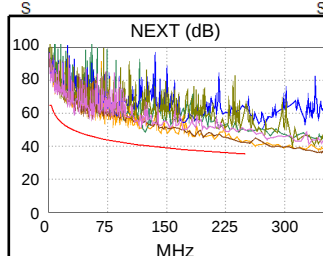


Atten. inser. (dB)

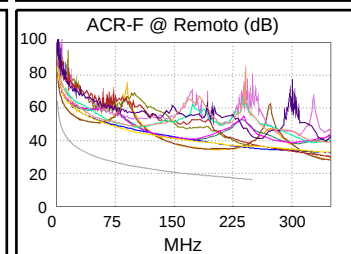
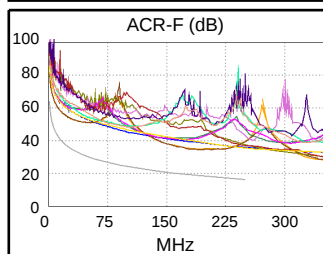


Margine Peggior Valore Peggior

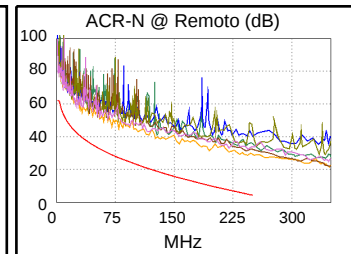
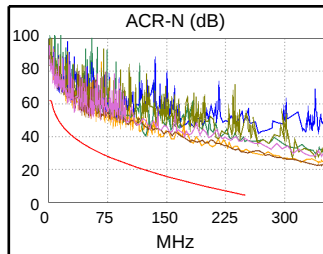
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6-4,5	1,2-3,6	3,6-4,5	1,2-3,6
NEXT (dB)	6.6	3.9	6.8	3.9
Freq. (MHz)	245.5	241.5	250.0	241.5
Limite (dB)	35.5	35.6	35.3	35.6
Coppia Peggior	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.1	4.4	6.1	4.4
Freq. (MHz)	244.5	241.5	244.5	241.5
Limite (dB)	32.9	33.0	32.9	33.0



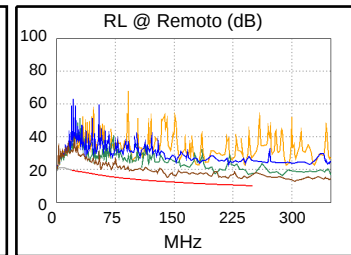
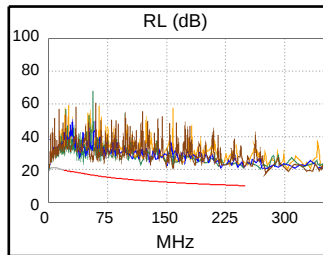
PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6-1,2	1,2-3,6	1,2-3,6	1,2-3,6
ACR-F (dB)	15.6	15.6	15.9	16.2
Freq. (MHz)	182.5	182.5	193.5	200.0
Limite (dB)	19.0	19.0	18.5	18.2
Coppia Peggior	1,2	1,2	1,2	1,2
PS ACR-F (dB)	16.7	16.9	16.8	17.2
Freq. (MHz)	183.0	182.5	188.5	193.5
Limite (dB)	15.9	16.0	15.7	15.5



N/P	princi	SR	princi	SR
Coppia Peggior	4,5-7,8	1,2-3,6	3,6-4,5	1,2-3,6
ACR-N (dB)	16.0	15.4	26.3	23.2
Freq. (MHz)	32.8	32.5	250.0	241.5
Limite (dB)	39.4	39.5	4.2	5.1
Coppia Peggior	7,8	7,8	3,6	3,6
PS ACR-N (dB)	16.7	15.8	25.5	23.7
Freq. (MHz)	11.0	8.0	244.5	241.5
Limite (dB)	49.0	52.1	2.2	2.5



PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6	7,8	7,8	7,8
RL (dB)	7.9	2.6	8.7	3.4
Freq. (MHz)	41.5	141.5	158.0	217.0
Limite (dB)	17.8	12.5	12.0	10.6



Conformità Network Standards:

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

LinkWare™ PC Versione 11.2

Progetto: CASSINO SEDE VALLERO...

Impianto: Non impostata

Piano: Non impostata

Armadio: Non impostata

Senza Titolo1

Edificio: Non impostata

Stanza: Non impostata

Patch: Non impostata



ID Cavo: RACK A - 06

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:27:10

Nome Dell'Operatore: NATALE

Spazio Limite 3.9 dB (NEXT 1,2-3,6)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

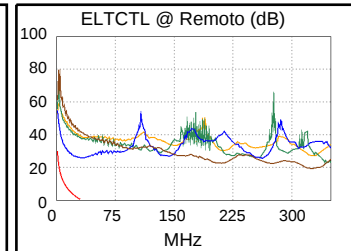
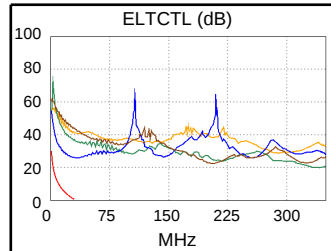
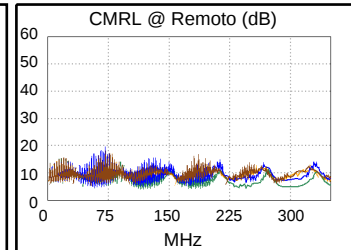
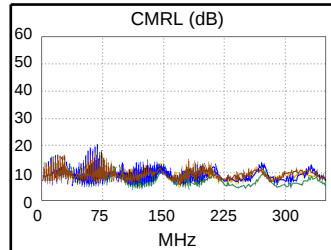
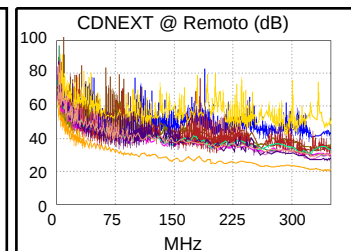
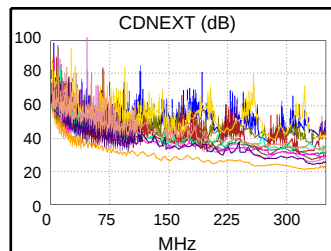
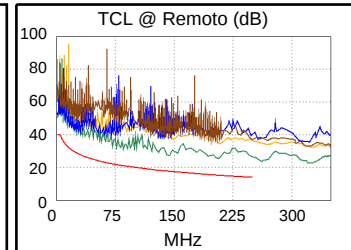
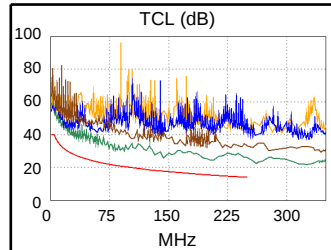
Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Margine Peggior			Valore Peggior	
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6	3,6	3,6	3,6
TCL (dB)	8.2	9.0	8.8	9.7
Freq. (MHz)	143.5	143.5	206.0	204.0
Limite (dB)	17.6	17.6	15.3	15.4
N/P	princi	SR	princi	SR
Coppia Peggior			1,2-3,6	1,2-3,6
CDNEXT (dB)			21.2	20.2
Freq. (MHz)			325.0	344.0
Limite (dB)				
N/P	princi	SR	princi	SR
Coppia Peggior			3,6	3,6
CMRL (dB)			4.4	4.4
Freq. (MHz)			118.0	177.5
Limite (dB)				
PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6	1,2	4,5	4,5
ELTCTL (dB)	22.4	22.4	25.6	25.5
Freq. (MHz)	1.0	1.0	30.0	30.0
Limite (dB)	30.0	30.0	0.5	0.5





ID Cavo: RACK A - 07

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:28:11

Nome Dell'Operatore: NATALE

Spazio Limite 5.4 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Lunghezza (m), Lim. 90.0	[Cop. 7,8]	49.6
Ritardo prop. (ns), Lim. 498	[Cop. 4,5]	251
Skew di Ritardo (ns), Lim. 44	[Cop. 4,5]	11
Resistenza (ohm), Lim. 21.00	[Cop. 3,6]	8.93
Res. non unif. (ohm), Lim. 0.270	[Cop. 3,6]	0.030
Non unif. resist. P2P (ohm), Lim. 0.310	[Cop. 3,6-7,8]	0.073
Atten. inser. Margine (dB)	[Cop. 3,6]	15.8
Frequenza (MHz)	[Cop. 3,6]	250.0
Limite (dB)	[Cop. 3,6]	31.1



49.6 m

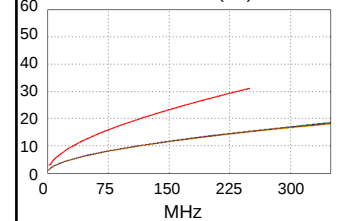


Schema collegamenti (T568B)

PASSATO



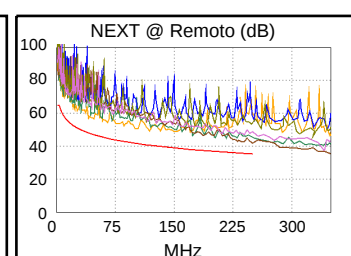
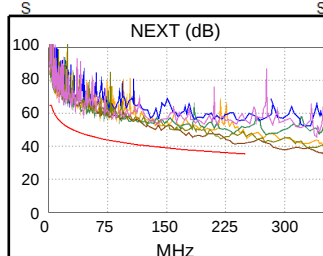
Atten. inser. (dB)



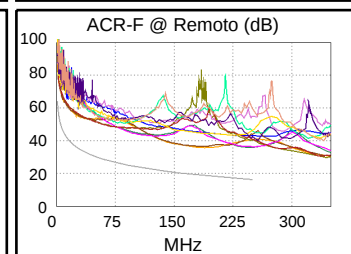
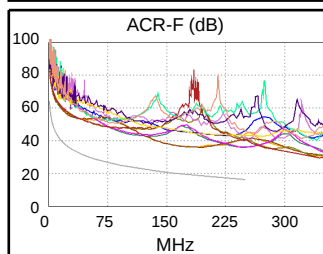
Margine Peggior

Valore Peggior

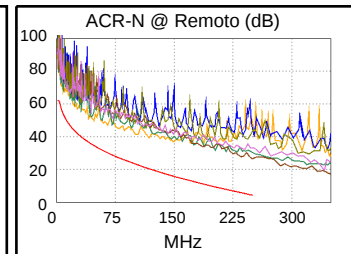
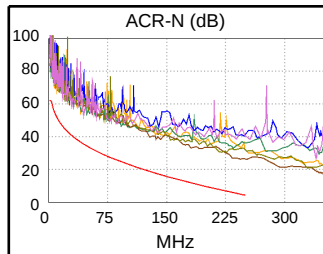
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
NEXT (dB)	5.4	6.3	5.6	6.3
Freq. (MHz)	235.5	249.5	243.5	249.5
Limite (dB)	35.8	35.4	35.5	35.4
Coppia Peggior	3,6	4,5	3,6	4,5
PS NEXT (dB)	6.5	6.7	6.6	6.7
Freq. (MHz)	238.0	250.0	250.0	250.0
Limite (dB)	33.1	32.7	32.7	32.7



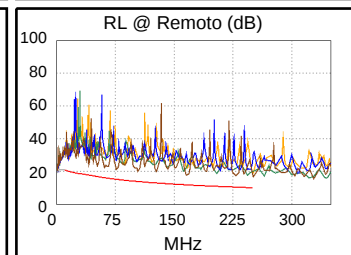
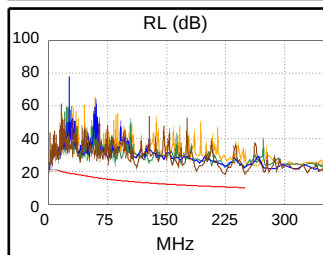
PASSATO	princi	SR	princi	SR
Coppia Peggior	3,6-1,2	1,2-3,6	3,6-1,2	1,2-3,6
ACR-F (dB)	16.8	16.7	17.1	17.0
Freq. (MHz)	168.0	176.0	189.0	189.0
Limite (dB)	19.7	19.3	18.7	18.7
Coppia Peggior	1,2	1,2	1,2	1,2
PS ACR-F (dB)	19.1	19.2	20.6	20.3
Freq. (MHz)	189.0	146.5	243.5	231.0
Limite (dB)	15.7	17.9	13.5	13.9



N/P	princi	SR	princi	SR
Coppia Peggior	1,2-3,6	1,2-3,6	3,6-4,5	3,6-4,5
ACR-N (dB)	15.0	13.2	21.2	22.2
Freq. (MHz)	7.9	7.8	243.5	249.5
Limite (dB)	54.5	54.7	4.9	4.3
Coppia Peggior	4,5	1,2	3,6	4,5
PS ACR-N (dB)	15.2	14.3	22.4	22.6
Freq. (MHz)	7.0	7.8	250.0	250.0
Limite (dB)	53.3	52.4	1.6	1.6



PASSATO	princi	SR	princi	SR
Coppia Peggior	7,8	7,8	7,8	7,8
RL (dB)	6.5	5.9	7.4	6.4
Freq. (MHz)	13.1	166.0	224.0	231.0
Limite (dB)	20.4	11.8	10.5	10.4



Conformità Network Standards:

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

LinkWare™ PC Versione 11.2

Progetto: CASSINO SEDE VALLERO...

Impianto: Non impostata

Piano: Non impostata

Armadio: Non impostata

Senza Titolo1

Edificio: Non impostata

Stanza: Non impostata

Patch: Non impostata



ID Cavo: RACK A - 07

Limite di test: TIA Cat 6 Perm. Link (+All)

Versione dei limiti: V7.7

Data / Ora: 20/12/2022 12:28:11

Nome Dell'Operatore: NATALE

Spazio Limite 5.4 dB (NEXT 3,6-4,5)

Tipo di Cavo: Cat 6 U/UTP

NVP: 69.0%

Principale: Versiv

No. serie: 1820335

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000 (DSX-PLA804)

No. serie: 21320523

Sommario dei test: PASSATO

Remoto: Versiv

No. serie: 1820316

Versione software: V6.8 Build 6

Data taratura: 30/11/2022

Adattatore: DSX-8000R (DSX-PLA804)

No. serie: 21320525

Margine Peggior			Valore Peggior	
PASSATO	PRIN	SR	princi	SR
Coppia Peggior	3,6	3,6	3,6	3,6
TCL (dB)	9.6	9.1	9.7	9.4
Freq. (MHz)	202.5	144.5	206.5	200.5
Limite (dB)	15.4	17.6	15.3	15.5
N/P	princi	SR	princi	SR
Coppia Peggior			1,2-3,6	1,2-3,6
CDNEXT (dB)			21.2	20.3
Freq. (MHz)			326.0	337.0
Limite (dB)				
N/P	princi	SR	princi	SR
Coppia Peggior			3,6	3,6
CMRL (dB)			4.3	4.4
Freq. (MHz)			245.0	234.5
Limite (dB)				
PASSATO	princi	SR	princi	SR
Coppia Peggior	4,5	3,6	1,2	1,2
ELTCTL (dB)	22.2	24.1	31.8	31.6
Freq. (MHz)	1.0	1.0	29.5	29.8
Limite (dB)	30.0	30.0	0.6	0.5

