LanPro Reliable CAT 6 Cable Performance Test.

LPCABLECAT6_TST_ENB01W



LanPro Reliable CAT 6
Cable Performance Test.



Description of the test

- This is a random test of approximately 100 meters (328 feet circuit). The values measured in this way belong to a complete current system; it is not just a piece of cable (channel test).
- This test consists of the following elements: LanPro CAT 6 cable, two LanPro CAT 6 couplers for preparing a cable of approximately 100 m long, and two LanPro CAT 6 patch cords of 1 m each (3 feet).
- In the first step, shown in Figure 1, the reference data is adjusted for an accurate reading in a Fluke Networks OmniScanner with 50E04C00019 and 50D04C00038 serial numbers, 2003 model.





Figure 1

- The equipment must be adjusted for CAT 6 standard. 300 MHz without limit adjustment, as shown in Figure 2.
- Proceed with the certification. See the progress in Figure 3.



Figure 2



Figure 3

- All the parameters have been certified positively. See Figure 4.
- By saving data of LanPro CAT 6 cable, download is possible (see Figure 5).



Figure 4



Figure 5

Or WIREMAP view (Figure 6).

A random length of 296 feet, approximately 91 meters, has been tested. (See Figure 7).



Figure 6

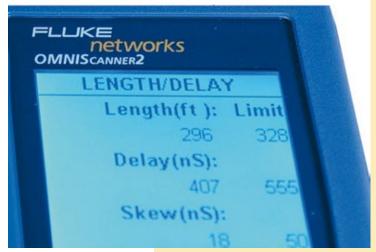


Figure 7

- POWER SUM ELFEXT with a margin of almost 10 dB. See Figure 8.
- POWER SUM NEXT with a margin of almost 10 dB. See Figure 9.



Figure 8



Figure 9

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- ELFEXT with a margin of almost 10 dB. See Figure 10.
- NEXT with a margin of 3 dB (worst scenario). See Figure 11.



Figure 10



Figure 11

- Excellent RETURN LOSS margin of 6.5 dB. See Figure 12.
- Excellent 9.4 dB margin in attenuation test. See Figure 13.



Figure 12



Figure 13

Certification Result

Figure 14



Cable ID: TIA-0003

Date / Time: 02/14/2005 09:06:00am Headroom: 3.0 dB (NEXT 36-78) Test Limit: Cat 6 Chan

Cable Type: Cat 6 UTP

Operator: LanPro_ Software Version: V06.12

NVP: 74%

Test Summary: PASS

Model: OMNIScanner2 Main S/N: 50D04C00038 Remote S/N: 50E04C00019 Main Adapter: CHAN 5/5E/6 Remote Adapter: CHAN 5/5E/6

	Omni: Remote:	Expected 12345678 12345678	Actual 12345678 12345678					
Length (ft), Limit 328 Prop. Delay (ns), Limit 555 Delay Skew (ns), Limit 50 Resistance (ohms)			[Pair 45] [Pair 12]	296 425 18 N/A				dB Attenuation 60 45 30
Attenuation (dB) Frequency (MHz) Limit (dB)			[Pair 36] [Pair 36] [Pair 36]	9.4 249.7 35.9				0 Frequency (MHz) 25
	Worst C	ase Margin				AMENIA		
PASS	MAIN	SR	7		dB	NEXT	— I	dB NEXT @ Remote
Worst Pair NEXT (dB)	36-78 3.0	36-78 4.5			90	Michellenter	ja .	so while the same of the same
Freq. (MHz)	200.2	242.5			60 Mar	The state of the s	38	60
Limit (dB)	34.8	33.4			30			30
Worst Pair	36	36			30		- 11	30
PSNEXT (dB)	5.5	5.3			0			ا ا
Freq. (MHz)	200.2	242.5			0	Frequency (MHz)	250	0 Frequency (MHz) 25
Limit (dB)	31.9	30.4					=	
PASS	MAIN	SR			dB	ELFEXT	⊐ 1	dB ELFEXT @ Remote
Worst Pair	78-36	36-78			90		- 11	90
ELFEXT (dB)	9.4	9.4			80			60
Freq. (MHz)	239.8	238.9			00	Carlo Marine	hids .	January Male
Limit (dB)	15.7	15.7			30	- and about		30
Worst Pair	36	36						
PSELFEXT (d		9.7			0	Francisco de Orbital		0 Frequency (MHz) 25
Freq. (MHz)	191.2	187.6			0	Frequency (MHz)	250	0 Frequency (MHz) 25
Limit (dB)	14.7	14.8			40	Pi	_	dB RL@ Remote
PASS	MAIN	SR			dB 60	RL	— II	dB RL@ Remote
Worst Pair	45	36						
RL (dB)	6.5	8.7			45	10000000000000000000000000000000000000		45 11 11 11 11 11 11 11
Freq. (MHz)	5.2	6.4			30	THE WARREN	1	30
Limit (dB)	19.0	19.0				a complete of the	347	The Property of the
					15			15
					0	Frequency (MHz)	250	0 Frequency (MHz) 25
						- requestey (see 12)	-~	Triedoesely (mate)



Project: LANPRO RELIABLE 6z