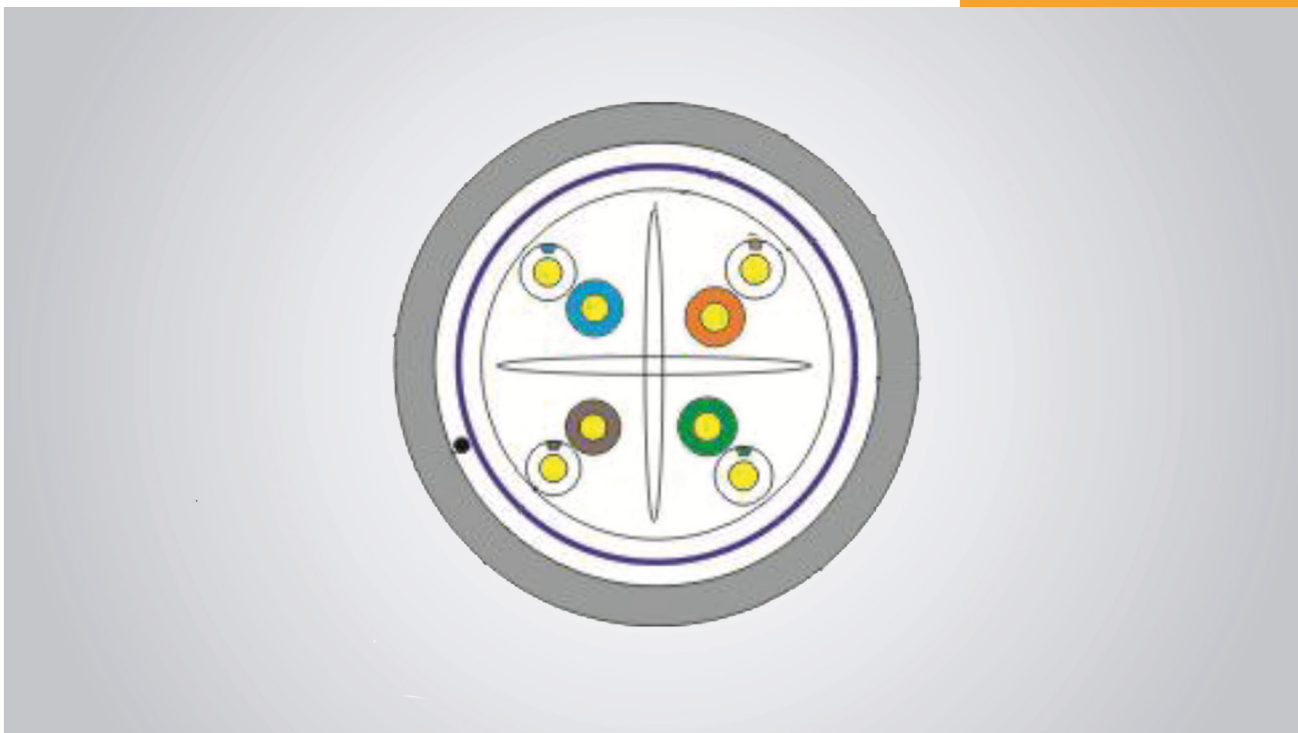


## U-UTP Kabel 4x2xxAWG23 Kat. 6A LSZH hvid



### Anvendelse

Anvendes til højhastighedskablersystemer, hvor behovet for stor datatrafik er tilstede.

Varenr.: 122180  
EANr.: 5706683020483

### Specifikation

Kategori: 6A /UTP  
Transmissionshastighed: 10Gbps  
Frekvens: 500 Mhz  
Impedans: 100 +/- 15 ohm  
NVP værdi: 74 %  
EMC klasse: C  
CPR: Eca  
DoP dok.: GL-122180  
Antal par: 4 par  
Leder: AWG23 massiv kobber  
Lederisolation: PE  
Kappe: LSZH hvid, RAL 9003  
Standard: EIA/TIA 568B.  
ISO/IEC 11801. EN 50173-2  
Oplægning: Tromle 500 mtr.

## U/UTP 4Pairs cable-category 6A-LSZH Sheath

Content of the Data Sheet																																																																																				
Sheath Printing	TBD																																																																																			
Customer No.		Customer Reference																																																																																		
Category	U/UTP CAT6A-4P-LSZH																																																																																			
Reference Standard	ISO/IEC11801、ANSI/TIA-568.2-D																																																																																			
Conductor	Material	Solid-Bare Copper																																																																																		
	Nom.O.D.(mm)	0.565	up	+0.005																																																																																
			down	-0.005																																																																																
Insulation	Material	HDPE																																																																																		
	Diameter	1.12±0.05mm																																																																																		
Wrapping	Polyester Tape+Isolation Wrap																																																																																			
Sheath	Thickness	0.55±0.05 mm																																																																																		
	External O.D.	7.2±0.5 mm																																																																																		
	Surface	Clean,Frap,Satiation																																																																																		
	Material	LSZH(complies RoHS)																																																																																		
	Color	TBD																																																																																		
Surface Printing	Letter height	3.0±0.3mm																																																																																		
	Color	Black																																																																																		
	Print error & Space	≤±0.5%, 1m																																																																																		
Core Color	1 White- Blue /Blue	2 White-Orange /Orange																																																																																		
	3 White-Green /Green	4 White- Brown /Brown																																																																																		
Packing	Drum																																																																																			
Carton dimension	According to the requires																																																																																			
Packing length	305±1.5m																																																																																			
Rip-cord	Yes	Drain wire	No																																																																																	
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0																																																																																		
	Elongation(%)	≥125																																																																																		
	Aging Period (°C×hrs)	100°C×24h×7d																																																																																		
	After Aging Tensile Strength(Mpa)	≥8.0																																																																																		
	Elongation(%)	≥100																																																																																		
	Cold bend(-20±2°C×4h)	8×Cable O.D., No visible cracks																																																																																		
Electrical Characteristics (20°C)	Impedance(Ω)	1.0-250.0MHz	100±15																																																																																	
		250.0-500.0MHz	100±22																																																																																	
	1.0-500.0MHz Delay Skew (ns/100m)	≤45																																																																																		
	DC Resistance (Ω/100m) max	9.38																																																																																		
	DC Conductor Resistance Unbalance (%) max	5.0																																																																																		
<b>Technical Performance (100m) :</b>																																																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT ≤dB</th> <th>NEXT ≥dB</th> <th>PSNEXT ≥dB</th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>—</td><td>74.3</td><td>72.3</td></tr> <tr><td>4.0</td><td>23.0</td><td>3.8</td><td>65.3</td><td>63.3</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.3</td><td>60.8</td><td>58.8</td></tr> <tr><td>10.0</td><td>25.0</td><td>5.9</td><td>59.3</td><td>57.3</td></tr> <tr><td>16.0</td><td>25.0</td><td>7.5</td><td>56.2</td><td>54.2</td></tr> <tr><td>20.0</td><td>25.0</td><td>8.4</td><td>54.8</td><td>52.8</td></tr> <tr><td>25.0</td><td>24.3</td><td>9.4</td><td>53.3</td><td>51.3</td></tr> <tr><td>31.25</td><td>23.6</td><td>10.5</td><td>51.9</td><td>49.9</td></tr> <tr><td>62.5</td><td>21.5</td><td>15.0</td><td>47.4</td><td>45.4</td></tr> <tr><td>100</td><td>20.1</td><td>19.1</td><td>44.3</td><td>42.3</td></tr> <tr><td>200</td><td>18.0</td><td>27.6</td><td>39.8</td><td>37.8</td></tr> <tr><td>250</td><td>17.3</td><td>31.1</td><td>38.3</td><td>36.3</td></tr> <tr><td>300</td><td>16.8</td><td>34.3</td><td>37.1</td><td>35.1</td></tr> <tr><td>500</td><td>15.2</td><td>45.3</td><td>33.8</td><td>31.8</td></tr> </tbody> </table>										Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PSNEXT ≥dB	1	20.0	—	74.3	72.3	4.0	23.0	3.8	65.3	63.3	8.0	24.5	5.3	60.8	58.8	10.0	25.0	5.9	59.3	57.3	16.0	25.0	7.5	56.2	54.2	20.0	25.0	8.4	54.8	52.8	25.0	24.3	9.4	53.3	51.3	31.25	23.6	10.5	51.9	49.9	62.5	21.5	15.0	47.4	45.4	100	20.1	19.1	44.3	42.3	200	18.0	27.6	39.8	37.8	250	17.3	31.1	38.3	36.3	300	16.8	34.3	37.1	35.1	500	15.2	45.3	33.8	31.8
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Version	A/01	Date	2017-09-18	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua																																																																											



3933 US Route 11  
Cortland, New York 13045 USA  
Phone Number: (800) 345-3851  
Fax Number: (607) 758-6637  
Web: www.intertek.com

Project Number: G103823873  
Certificate of Conformance 103540995CRT-004a

Date Issued: 6/15/2020

Test Report Number: G103823873CRT-007k

Applicant:  
Zhejiang Zhaolong Interconnect Technology Co. Ltd  
Floor 9 Zhongmao Building  
Yong'an Str. Wukang Town, Deqing  
Zhejiang, 313200China  
Applicant Contact: Mr. Ni Dong Hua

Manufacturer:  
Zhejiang Zhaolong Interconnect Technology Co. Ltd  
Xihuwei Industrial Zone  
Shilin Deqing  
Zhejiang 313215, China  
Mfg. Contact: Mr. Ni Dong Hua

Dear Mr. Ni Dong Hua;

Intertek is pleased to provide this letter report covering the testing of (1) one 4 Pair, 23 AWG, U/UTP, LSZH, Non-Plenum Riser, Horizontal (solid) Cable, Part Number: G2501-27. The sample was randomly selected by an Intertek inspector from your manufacturing facility, Zhejiang Zhaolong Interconnect Technology Co. Ltd, on 5/26/2020 for Quarter 2 2020 quarterly Follow-up Testing.

The testing was performed at Intertek located in Cortland, NY on 6/2/2020, to the EN 50173-1 specifications for Category 6A and did comply with the applicable requirements of the specification.

We have appreciated this opportunity to be of service to you. If there are any questions regarding this letter or any other services offered by Intertek, Please do not hesitate to contact us.

Sincerely,

Antoine Pelletier  
Project Engineer  
Global Cabling Products Testing  
Phone: (607) 758-6718

David Ayers  
Technician  
Global Cabling Products Testing  
Phone: (607) 758-6321

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## Summary

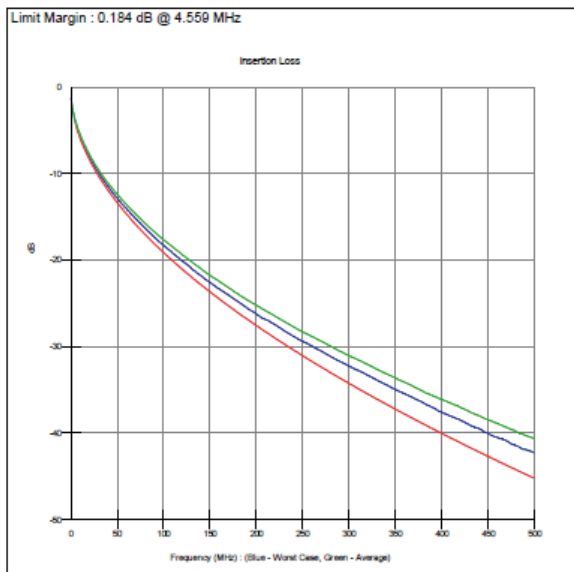
<b>Client</b>	Zhejiang Zhaolong	<b>Report No</b>	103823873CRT-007k
<b>Specification</b>	EN 50173-1 Cat 6A Cable	<b>Length (m)</b>	100.
<b>Part No</b>	G2501-27	<b>Temperature</b>	22 °C
<b>Test Started</b>	6/2/2020 1:04:13 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 Pair 23 AWG LSZH UTP Solid		
<b>Operator Name</b>	David Ayers		

DC Resistance (Ohms)		
Worst Case	Average	Spec
7.3	7.2	9.5
7.3	7.2	9.5

DC Resistance Unbalance (%)		
Worst Case	Average	Spec
0.6	0.2	2.0

DC Resistance Unbalance Pair-Pair (%)		
Worst Case	Average	Spec
2.4	1.5	

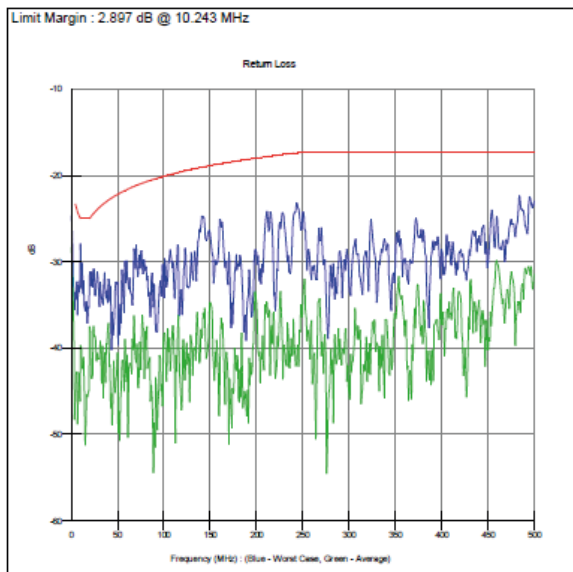
Capacitance Unbalance Pair-Ground (pF/100m)		
Worst Case	Average	Spec
12.2	5.0	120.0



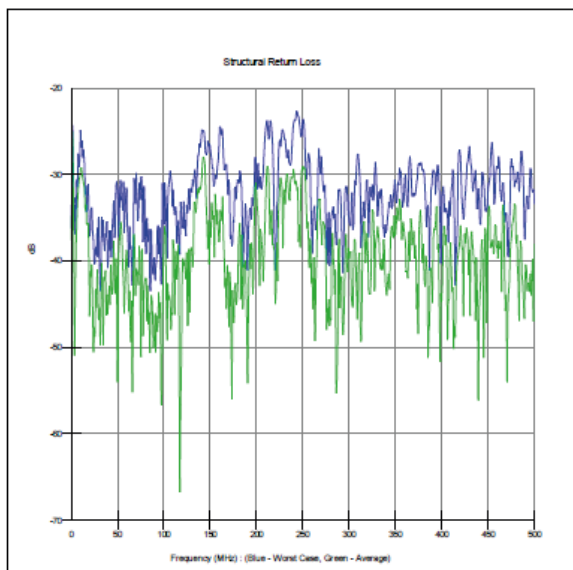
Insertion Loss			
Freq	Worst Case	Average	Spec
1.	1.8	1.8	
4.	3.6	3.5	
8.	5.1	4.9	5.3
10.	5.7	5.5	5.9
16.	7.2	6.9	7.5
20.	8.1	7.8	8.4
25.	9.0	8.7	9.4
31.25	10.1	9.8	10.5
62.5	14.4	13.9	15.0
100.	18.3	17.6	19.1
250.	29.4	28.3	31.1
500.	42.3	40.7	45.2

## Summary

<b>Client</b>	Zhejiang Zhaolong	<b>Report No</b>	103823873CRT-007k
<b>Specification</b>	EN 50173-1 Cat 6A Cable	<b>Length (m)</b>	100.
<b>Part No</b>	G2501-27	<b>Temperature</b>	22 °C
<b>Test Started</b>	6/2/2020 1:04:13 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 Pair 23 AWG LSZH UTP Solid		
<b>Operator Name</b>	David Ayers		



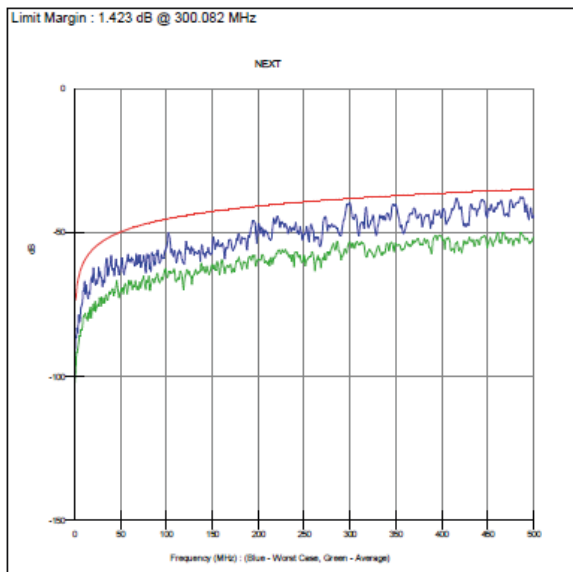
Return Loss			
Freq	Worst Case	Average	Spec
1.	26.3	30.0	
4.	38.5	47.3	
8.	34.9	44.6	24.5
10.	29.1	41.6	25.0
16.	35.8	48.3	25.0
20.	31.6	37.5	25.0
25.	31.8	38.6	24.3
31.25	32.7	39.5	23.6
62.5	34.1	42.0	21.5
100.	33.4	38.6	20.1
250.	24.7	35.3	17.3
500.	22.7	31.7	17.3



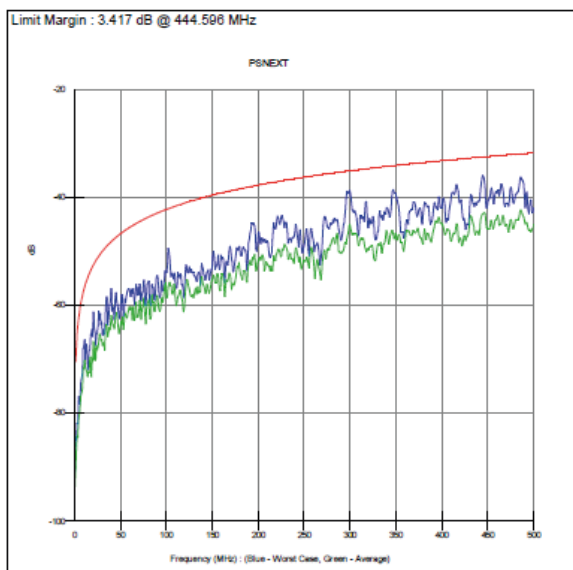
Structural Return Loss			
Freq	Worst Case	Average	Spec
1.	28.9	29.9	
4.	34.0	48.3	
8.	28.4	31.3	
10.	25.7	29.6	
16.	31.6	33.7	
20.	37.2	46.3	
25.	43.3	47.9	
31.25	43.1	49.2	
62.5	42.0	45.0	
100.	34.4	38.8	
250.	24.1	29.2	
500.	34.5	38.1	

## Summary

<b>Client</b>	Zhejiang Zhaolong	<b>Report No</b>	103823873CRT-007k
<b>Specification</b>	EN 50173-1 Cat 6A Cable	<b>Length (m)</b>	100.
<b>Part No</b>	G2501-27	<b>Temperature</b>	22 °C
<b>Test Started</b>	6/2/2020 1:04:13 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 Pair 23 AWG LSZH UTP Solid		
<b>Operator Name</b>	David Ayers		



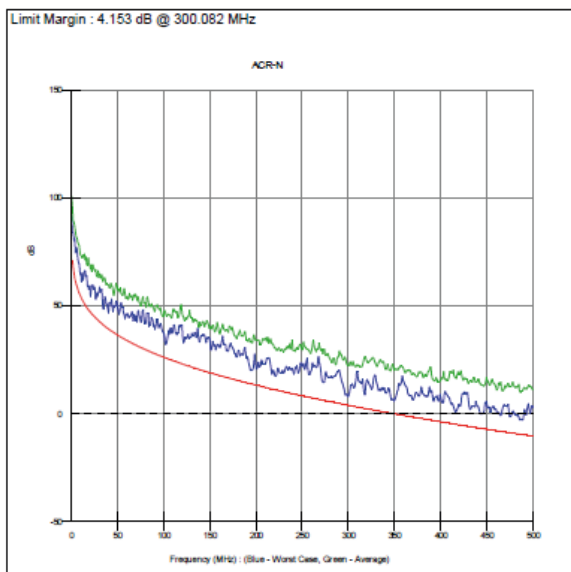
NEXT			
Freq	Worst Case	Average	Spec
1.	90.2	100.0	74.7
4.	82.8	89.7	66.3
8.	75.9	83.4	61.8
10.	71.7	79.0	60.3
16.	70.6	79.4	57.2
20.	67.3	76.8	55.8
25.	67.4	75.5	54.3
31.25	66.7	74.0	52.9
62.5	58.8	68.3	48.4
100.	55.6	63.9	45.3
250.	50.8	58.0	39.3
500.	43.5	51.9	34.8



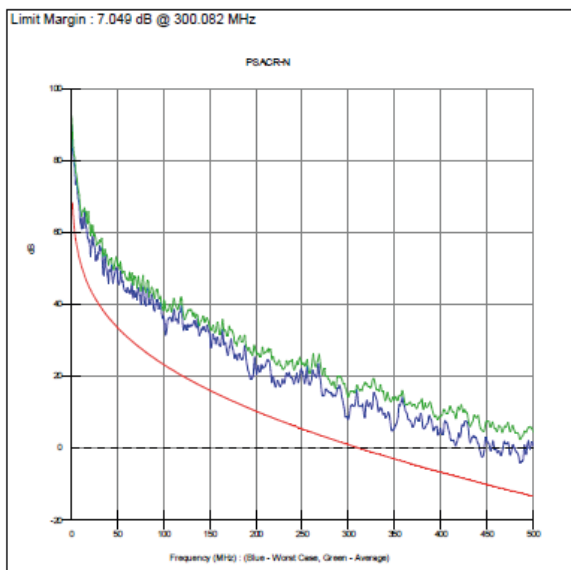
PSNEXT			
Freq	Worst Case	Average	Spec
1.	88.1	91.5	71.7
4.	80.6	83.4	63.3
8.	73.4	76.1	58.8
10.	68.6	71.7	57.3
16.	68.5	72.4	54.2
20.	65.7	70.2	52.8
25.	64.9	68.2	51.3
31.25	64.8	67.1	49.9
62.5	57.4	61.6	45.4
100.	54.3	57.4	42.3
250.	49.2	51.7	36.3
500.	41.6	45.0	31.8

## Summary

<b>Client</b>	Zhejiang Zhaolong	<b>Report No</b>	103823873CRT-007k
<b>Specification</b>	EN 50173-1 Cat 6A Cable	<b>Length (m)</b>	100.
<b>Part No</b>	G2501-27	<b>Temperature</b>	22 °C
<b>Test Started</b>	6/2/2020 1:04:13 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 Pair 23 AWG LSZH UTP Solid		
<b>Operator Name</b>	David Ayers		



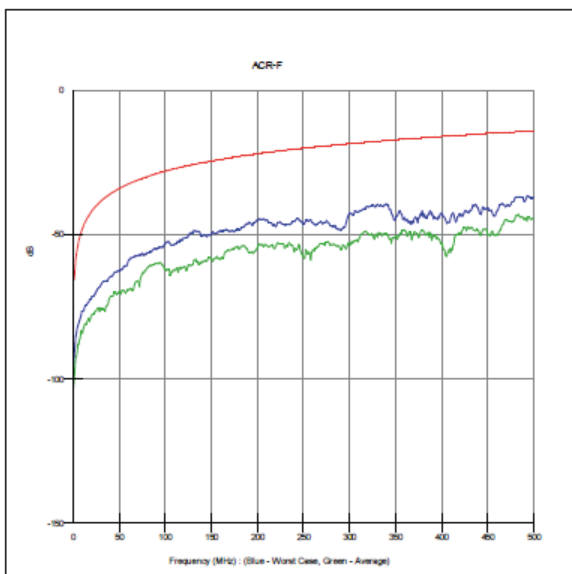
ACR-N			
Freq	Worst Case	Average	Spec
1.	88.3	98.2	72.6
4.	79.2	86.2	62.5
8.	70.9	78.5	56.5
10.	66.1	73.5	54.4
16.	63.6	72.4	49.8
20.	59.4	69.0	47.4
25.	58.5	66.8	45.0
31.25	56.5	64.3	42.4
62.5	44.7	54.5	33.4
100.	37.7	46.3	26.2
250.	22.1	29.6	8.3
500.	2.2	11.2	-10.4



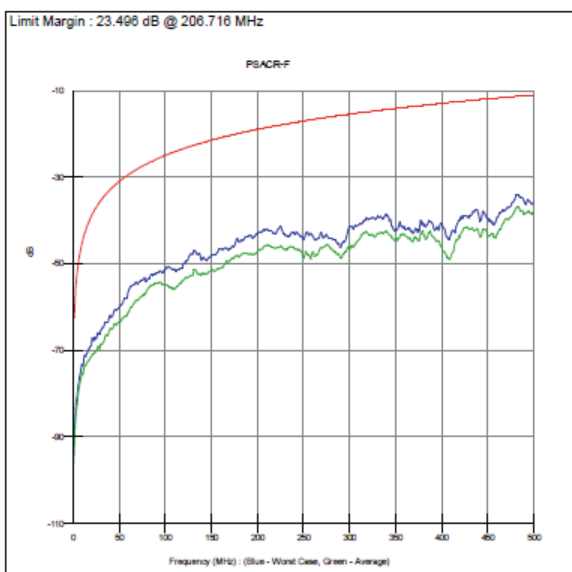
PSACR-N			
Freq	Worst Case	Average	Spec
1.	86.3	89.7	69.6
4.	77.0	79.9	59.5
8.	68.6	71.2	53.5
10.	63.2	66.2	51.4
16.	61.9	65.5	46.8
20.	57.8	62.4	44.4
25.	56.0	59.5	42.0
31.25	55.1	57.3	39.4
62.5	43.4	47.7	30.4
100.	36.6	39.8	23.2
250.	21.3	23.4	5.3
500.	0.3	4.3	-13.4

## Summary

<b>Client</b>	Zhejiang Zhaolong	<b>Report No</b>	103823873CRT-007k
<b>Specification</b>	EN 50173-1 Cat 6A Cable	<b>Length (m)</b>	100.
<b>Part No</b>	G2501-27	<b>Temperature</b>	22 °C
<b>Test Started</b>	6/2/2020 1:04:13 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 Pair 23 AWG LSZH UTP Solid		
<b>Operator Name</b>	David Ayers		



ACR-F			
Freq	Worst Case	Average	Spec
1.	94.2	101.3	67.2
4.	83.6	91.7	56.0
8.	78.9	85.1	49.9
10.	76.9	83.9	48.0
16.	73.7	79.7	43.9
20.	71.9	78.1	42.0
25.	69.9	76.4	40.0
31.25	66.7	76.0	38.1
62.5	58.1	68.6	32.1
100.	53.1	62.1	28.0
250.	46.2	57.5	20.0
500.	36.9	44.0	14.0

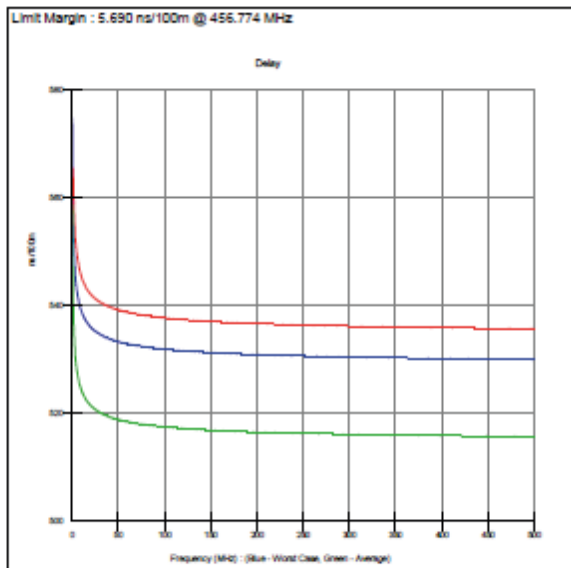


PSACR-F			
Freq	Worst Case	Average	Spec
1.	91.5	93.4	64.2
4.	81.1	83.3	53.0
8.	75.1	77.0	46.9
10.	73.7	75.6	45.0
16.	70.4	72.7	40.9
20.	68.8	71.4	39.0
25.	67.4	70.3	37.0
31.25	65.0	68.7	35.1
62.5	55.2	60.0	29.1
100.	51.4	55.0	25.0
250.	44.5	48.6	17.0
500.	35.7	38.3	11.0

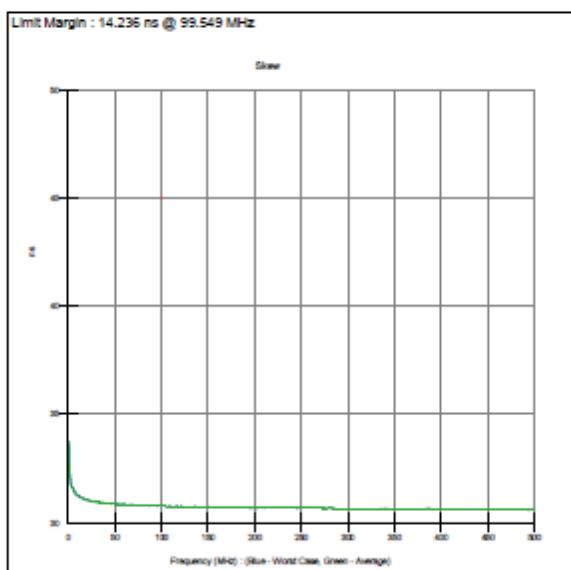


## Summary

<b>Client</b>	Zhejiang Zhaolong	<b>Report No</b>	103823873CRT-007k
<b>Specification</b>	EN 50173-1 Cat 6A Cable	<b>Length (m)</b>	100.
<b>Part No</b>	G2501-27	<b>Temperature</b>	22 °C
<b>Test Started</b>	6/2/2020 1:04:13 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 Pair 23 AWG LSZH UTP Solid		
<b>Operator Name</b>	David Ayers		



Delay			
Freq	Worst Case	Average	Spec
1.	563.6	548.0	568.0
4.	544.8	530.0	552.1
8.	540.2	525.5	546.7
10.	539.0	524.3	545.4
16.	536.8	522.3	543.0
20.	536.0	521.4	542.0
25.	535.2	520.7	541.2
31.25	534.5	520.0	540.4
62.5	532.7	518.3	538.6
100.	531.8	517.4	537.6
250.	530.5	516.2	536.3
500.	529.9	515.6	535.6

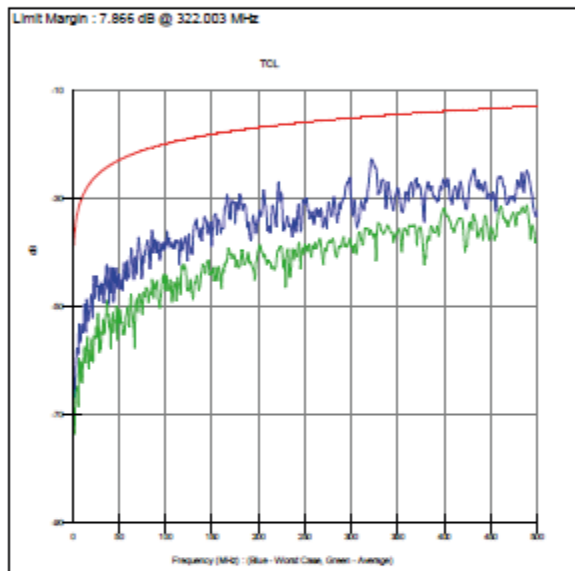


Skew			
Freq	Worst Case	Average	Spec
1.	32.9	32.9	
4.	31.6	31.6	
8.	31.3	31.3	
10.	31.3	31.3	
16.	31.1	31.1	
20.	31.1	31.1	
25.	31.0	31.0	
31.25	30.9	30.9	
62.5	30.8	30.8	
100.	30.8	30.8	45.0
250.	30.7	30.7	
500.	30.6	30.6	

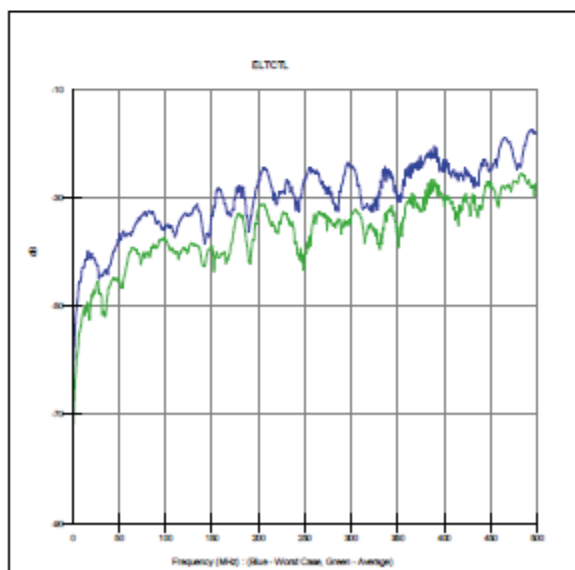


## Summary

<b>Client</b>	Zhejiang Zhaolong	<b>Report No</b>	103823873CRT-007k
<b>Specification</b>	EN 50173-1 Cat 6A Cable	<b>Length (m)</b>	100.
<b>Part No</b>	G2501-27	<b>Temperature</b>	22 °C
<b>Test Started</b>	6/2/2020 1:04:13 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 Pair 23 AWG LSZH UTP Solid		
<b>Operator Name</b>	David Ayers		



TCL			
Freq	Worst Case	Average	Spec
1.	64.6	70.8	39.6
4.	59.8	65.5	34.0
8.	57.2	62.8	31.0
10.	53.7	63.1	30.0
16.	52.0	55.9	28.0
20.	47.9	60.0	27.0
25.	47.5	55.6	26.0
31.25	48.2	55.1	25.1
62.5	40.9	48.5	22.0
100.	40.2	46.5	20.0
250.	30.8	38.7	16.0
500.	31.8	37.5	13.0



ELTCTL			
Freq	Worst Case	Average	Spec
1.	61.8	71.1	
4.	50.9	61.2	
8.	45.5	54.5	
10.	43.3	52.3	
16.	40.3	49.2	
20.	40.4	49.1	
25.	41.9	47.0	
31.25	44.4	48.0	
62.5	36.8	39.8	
100.	35.4	37.7	
250.	26.5	40.5	
500.	18.3	27.2	

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**ETL Verified Certificate of Conformance Number: 103540995CRT-004a**

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Rendered to:

**Zhejiang Zhaolong Interconnect Technology Co. Ltd**

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Yong'an Str. Wukang Town, Dequing  
Zhejiang, 313200 China

[www.zhaolong.com.cn](http://www.zhaolong.com.cn)

Contact: Mr. Ni Dong Hua

**Product Tested:** 4 pair, 23 AWG, U/UTP, LSZH, Non-Plenum, Horizontal (solid) Cable.  
**Model(s) and or Brand Name:** G2501-027  
**Standard(s)/Specification:** ANSI/TIA-568-C.2, ISO/IEC 11801-1 and EN 50173-1 Category 6A with the applicable electrical transmission characteristics  
**Jacket marking shall include:** ETL Verified to ANSI/TIA-568-C.2, ISO/IEC 11801-1 and EN 50173-1 Category 6A

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

**Date Issued:** September 14, 2018

**Approved By:**

A handwritten signature in black ink that reads 'Antoine Pelletier'.

Antoine Pelletier, Project Engineer

**This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.**

**NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.**

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