

**O WIRE**



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**REELEX®**  
PACKAGING SYSTEM

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**REELEX**<sup>®</sup>  
PACKAGING SYSTEM



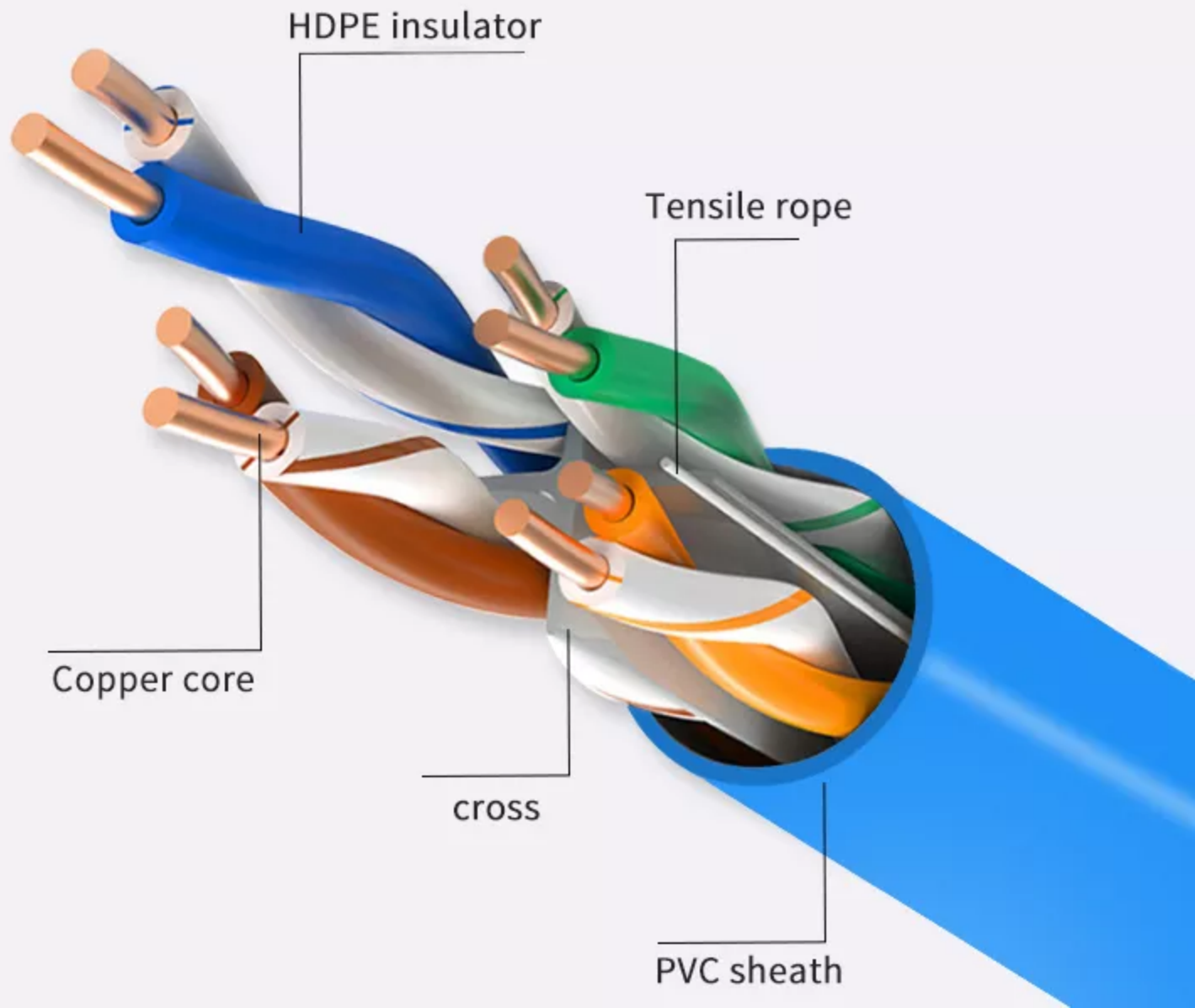
# CAT6 UTP CABLE

**Stable transmission / Engineering home decoration line**

GIGABIT NETWORK STABLE TRANSMISSION ENGINEERING HOME DECORATION NETWORK LINE









**REELEX<sup>®</sup>**  
**L I C E N S E D   P A C K A G I N G   S Y S T E M**

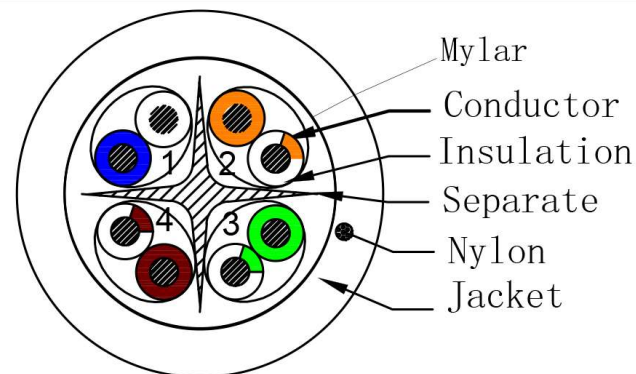
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# SPECIFICATION

## CONSTRUCTION & DIMENSION

Conductor	Material :Bare copper Solid
	Size :4P
	Construction:1/0. 53±0. 01MM
Insulation	Material :HDPE
	Avg. Thickness :0. 22MM
	Min. Thickness :0. 20MM
	Diameter :1. 0±0. 03MM
Inner Layer	Direction :S
	Pitch REF :30mm underneath
Outside Layer/	Direction :S
	Pitch :200mm underneath
Separate	Material : Polyethylene
	Construction: 4. 3×4. 3×0. 45mm
Shielding	Material : Mylar Spirally Wrapped
	Coverage : 100% coverage with 25% overlapping
	Drain Wire : /
	Material : /
	Coverage : /
Filler	Material : Nylon
	Material : PVC
	Avg. Thickness :0. 55MM
	Min. Thickness :0. 48MM
	Diameter :6. 0±0. 3mm
Jacket	Color :Optional
	Material : PVC
	Avg. Thickness :0. 55MM
	Min. Thickness :0. 48MM
Marking	Optional
	Optional
Packing	Optional
	Optional



- Insulation Color
1. Blue&White/Blue
  2. Orange&White/Orange
  3. Green&White/Green
  4. Brown&White/Brown

CROSS-SECTION

## ELECTRICAL PROPERTIES

Solid conductor resistance	:	≤7. 13 Ω /100M at 20°C
Insulation Resistance	:	Min. 5000mega ohms-km at 20°C
Dielectric Test	:	1000V DC/1min;No Breakdown
Delay skew	:	≤45nS
Propagation speed	:	NVP 69%
Frequency	:	250Mhz
Impedance	:	100 Ω ± 15

## DESCRIPTION

Rating Temperature	:	60°C
Voltage Rating	:	30V
Standard	:	TIA/EIA-568B. 2
Tested	:	fluke test passed

Description:LAN CABLE CAT6 UTP 0. 53BC 4P PVC

Customer : Drawing NO. :N170420002

Drawing	Yang	2021. 04. 20	UNIT:MM	REV. :A	PART NO. :
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Checked

Approved





**Cable ID:** □□□□902.1.01.530003

**Test Limit:** TIA Cat 6 Channel

Limits Version: V7.2

Date / Time: 06/17/2023 10:29:22 AM

**Headroom 6.2 dB (NEXT 1,2-3,6)**

Cable Type: Cat 6 U/UTP

NVP: 69.0%

Main: Versiv

S/N: 3463151

Software Version: V6.2 Build 1

Calibration Date: 10/01/2016

Adapter: DSX-5000 (DSX-CHA004)

S/N: 3476734

Remote: Versiv

S/N: 3463293

Software Version: V6.2 Build 1

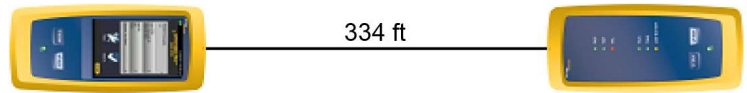
Calibration Date: 10/01/2016

Adapter: DSX-5000R (DSX-CHA004)

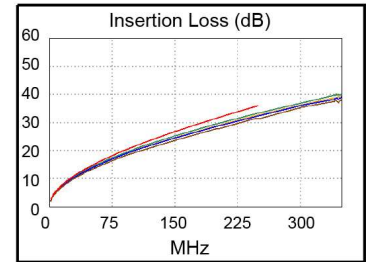
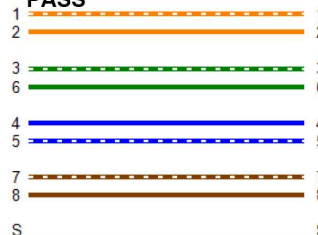
S/N: 3476940

**Test Summary: PASS**

Length (ft), Limit 328	[Pair 7,8]	334
Prop. Delay (ns), Limit 555	[Pair 3,6]	515
Delay Skew (ns), Limit 50	[Pair 3,6]	23
Resistance (ohms)	[Pair 3,6]	18.06
Insertion Loss Margin (dB)	[Pair 3,6]	2.5
Frequency (MHz)	[Pair 3,6]	248.5
Limit (dB)	[Pair 3,6]	35.8

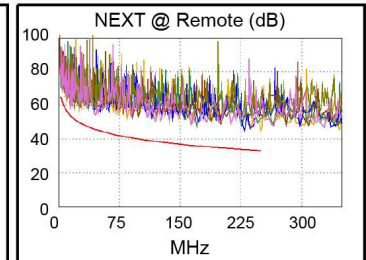
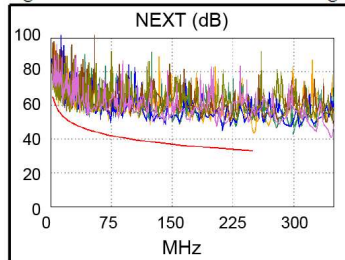


Wire Map (T568B)  
**PASS**

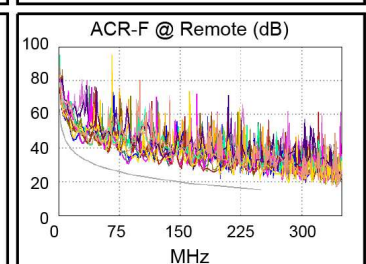
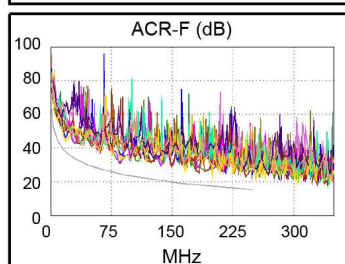


Worst Case Margin Worst Case Value

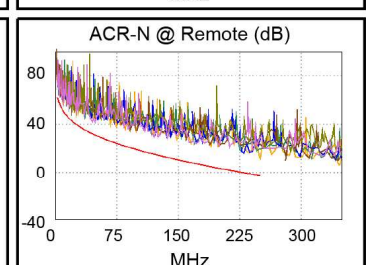
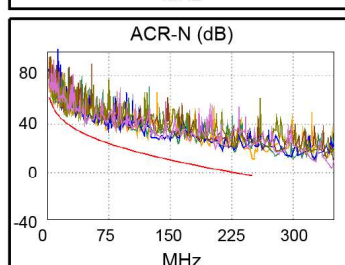
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	4,5-7,8	1,2-3,6	1,2-3,6
<b>NEXT (dB)</b>	6.2	6.6	10.9	11.7
Freq. (MHz)	9.8	14.6	250.0	250.0
Limit (dB)	56.8	53.9	33.1	33.1
Worst Pair	3,6	1,2	1,2	1,2
<b>PS NEXT (dB)</b>	6.2	7.4	11.6	13.5
Freq. (MHz)	3.1	3.3	213.0	250.0
Limit (dB)	62.0	62.0	31.4	30.2



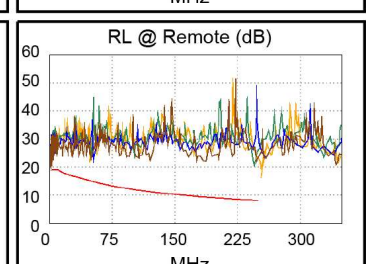
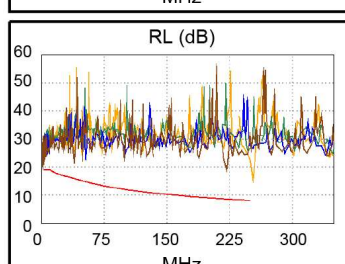
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-1,2	7,8-1,2	7,8-1,2	7,8-1,2
<b>ACR-F (dB)</b>	5.7	5.7	6.5	5.7
Freq. (MHz)	18.4	249.0	250.0	249.0
Limit (dB)	38.0	15.3	15.3	15.3
Worst Pair	1,2	1,2	1,2	1,2
<b>PS ACR-F (dB)</b>	8.0	7.9	8.6	8.7
Freq. (MHz)	18.4	86.3	250.0	249.0
Limit (dB)	35.0	21.5	12.3	12.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	1,2-3,6	1,2-3,6
<b>ACR-N (dB)</b>	6.5	7.1	13.6	14.4
Freq. (MHz)	9.8	10.0	250.0	250.0
Limit (dB)	50.5	50.2	-2.8	-2.8
Worst Pair	3,6	3,6	3,6	1,2
<b>PS ACR-N (dB)</b>	6.4	7.6	16.0	16.9
Freq. (MHz)	3.1	3.0	250.0	250.0
Limit (dB)	58.4	58.5	-5.8	-5.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	7,8	3,6
<b>RL (dB)</b>	4.9	4.7	10.6	12.5
Freq. (MHz)	3.5	3.5	221.5	245.0
Limit (dB)	19.0	19.0	8.5	8.1



Compliant 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		