



Top View



Bottom View

All UTP Cat6a Ultra Thin Patch Cable  
100% Pass Fluke Cat6a Channel Test!

## CAT6A-UTHN-xx-GRAY

### CAT6a UTP Ultra Thin Patch Cables

- Tested to pass 500 MHz data transmission rates
- Meet all CAT6a ANSI/TIA-568-C.2 standards
- Compliant with CE, RoHS, REACH standards

#### Applications:

- Supports 10G bandwidth
- Adapters, Hubs, Switches, Routers, DSL/Cable Modems, Patch Panels, etc.

Description: 4-Pair, UTP, 32 AWG, Stranded Conductors

Available lengths: 1/2/3/5/7/10/15/25/50/75 feet.

#### Electronic Specifications

Conductor DC Resistance: 58.3Ω/100m  
Impedance: 100Ω  
Capacitance: 5600 pf/100m  
Propagation Delay: 545ns/100m(Maximum)  
Delay Skew: 45ns/100m(Maximum)

#### Physical Specifications

Wiring Scheme: T568B  
Temperature Rating: -20°C to +75°C  
Voltage Rating: 30V

#### Conductor(4 twisted pair):

Conductor: 32AWG(7/0.08mm BC)  
Insulation: HD-PE:Ø0.55±0.05mm  
Twisted Pair: Pair1=Orange, Orange-White  
Pair2=Blue, Blue-White  
Pair3=Green, Green-White  
Pair4=Brown, Brown-White

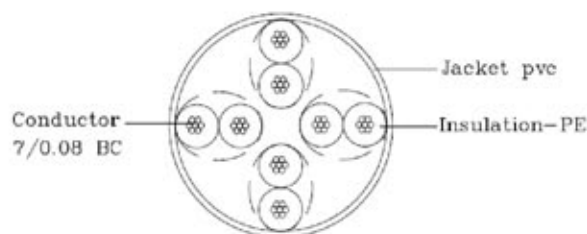
Shield: N/A

#### Connector Type (Qty. 2):

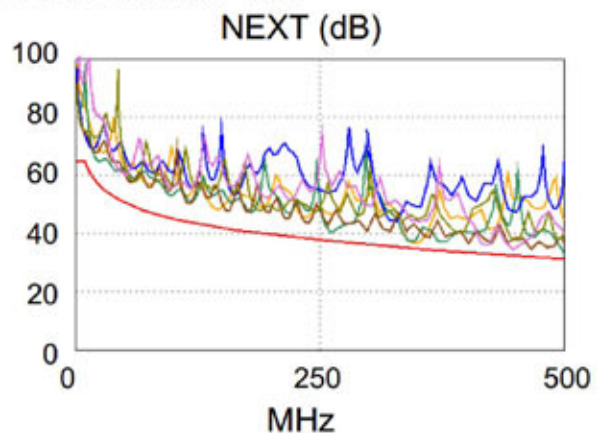
Connector Type: Unshielded 8P8C (RJ45)  
Gender: Male  
Connector Material: Polycarbonate  
Contact Material: Copper Alloy, Gold Plating  
Hood Material: Clear Boot Assembled

#### Overall Cable:

Jacket: PVC  
Minimum Average Thickness: 0.4mm  
Outer Diameter: 2.8±0.2mm



#### Fluke Performance Test:





**Cable ID: CAT6A-OD2.8-25M**

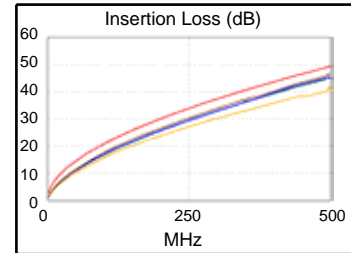
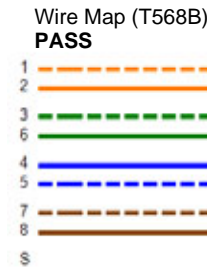
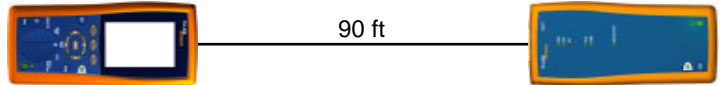
Date / Time: 07/10/2015 10:02:51 AM  
**Headroom 10.0 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 6A Channel**  
 Cable Type: Cat 6A UTP  
 Calibration Date: 10/02/2007

Operator: PETER  
 Software Version: 2.7400  
 Limits Version: 1.9300  
 NVP: 68.2%

**Test Summary: PASS**

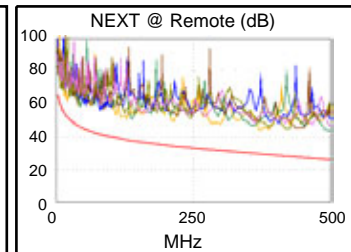
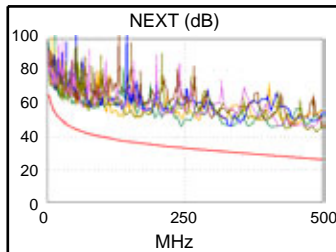
Model: DTX-1800  
 Main S/N: 9522103  
 Remote S/N: 9522104  
 Main Adapter: DTX-CHA001  
 Remote Adapter: DTX-CHA001

Length (ft), Limit 328	[Pair 12]	90
Prop. Delay (ns), Limit 555	[Pair 36]	137
Delay Skew (ns), Limit 50	[Pair 36]	3
Resistance (ohms)	[Pair 12]	27.9
Insertion Loss Margin (dB)	[Pair 78]	2.7
Frequency (MHz)	[Pair 78]	500.0
Limit (dB)	[Pair 78]	49.3

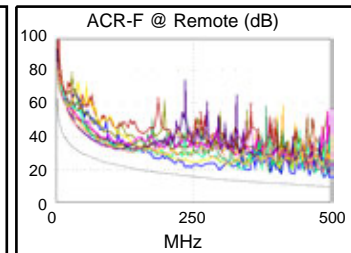
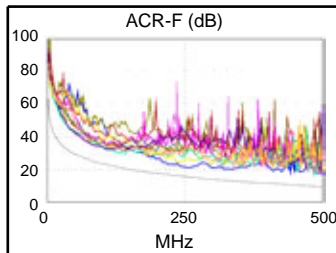


Worst Case Margin Worst Case Value

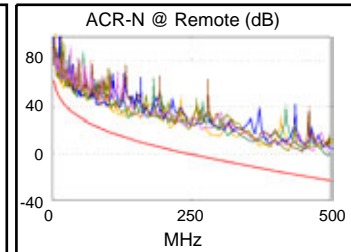
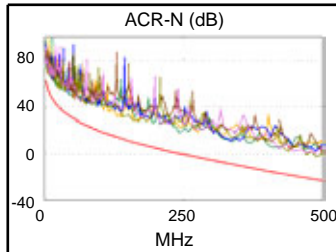
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-78	12-36	36-78	12-45
<b>NEXT (dB)</b>	10.3	10.0	16.8	17.6
Freq. (MHz)	4.8	19.1	488.0	494.0
Limit (dB)	61.8	52.0	26.4	26.2
Worst Pair	36	36	78	45
<b>PS NEXT (dB)</b>	10.0	10.7	17.4	17.5
Freq. (MHz)	5.0	7.0	486.0	450.0
Limit (dB)	59.0	56.6	23.6	24.4



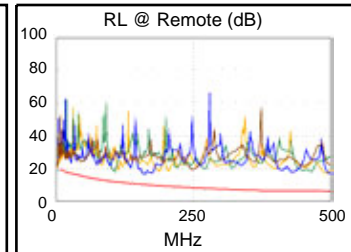
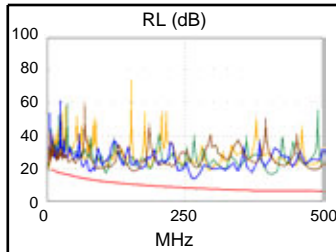
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-78	12-78	36-78	12-78
<b>ACR-F (dB)</b>	5.0	4.7	5.4	4.9
Freq. (MHz)	428.0	430.0	485.0	488.0
Limit (dB)	10.6	10.6	9.5	9.5
Worst Pair	78	12	78	36
<b>PS ACR-F (dB)</b>	4.8	6.9	4.8	7.9
Freq. (MHz)	485.0	429.0	485.0	485.0
Limit (dB)	6.5	7.6	6.5	6.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-78	36-78	12-45
<b>ACR-N (dB)</b>	12.3	12.7	19.6	21.4
Freq. (MHz)	4.6	7.1	484.0	496.0
Limit (dB)	57.6	53.5	-22.0	-22.9
Worst Pair	36	36	78	45
<b>PS ACR-N (dB)</b>	12.1	13.0	19.5	22.4
Freq. (MHz)	5.1	6.9	484.0	496.0
Limit (dB)	54.1	51.3	-24.8	-25.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	45	45	45	45
<b>RL (dB)</b>	4.9	6.1	5.5	6.1
Freq. (MHz)	78.3	159.5	265.0	159.5
Limit (dB)	13.1	10.0	7.8	10.0



Compliant Network Standards:

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