

C6A 90° UTP Keystone Jack

■ PART NO: QT-CWI93624

Feature

Leading 10G–Augmented Category 6 UTP keystone jack delivers excellent headroom beyond 500MHz. Patented PCB circuit & unique contact alignment does the main work in suppressing the internal magnetic coupling between pairs. Press-fit technology is applied for full-line production to prevent the potential risk of RoHS compliance. No solder, no lead. Compact figure allows to work with Leading 10G QPB-24 – the 24port snap-in patch panel, and also a 6 port faceplate/decora frame.

Leading 10G Cat.6A keystone jack leads you to the gateway that expedites 10G over copper solution!



Application

Cat.6A channel performance, supports a 4-connector topology for distances up to 100 metres

Externally coated with anti-EMI finish, effectively suppress alien crosstalk in a bundle cabling configuration

Press-Fit technology applied, no solder, no lead

Compact figure allows fitting in a 24 port-1U blank panel, 6 port faceplate/decora frame

Shuttered / unshuttered for options

Accepts 110 punch down tool

Physical Specification

Jack housing: ABS high-impact UL94V-0 thermoplastic coated with anti-EMI finish

Spring wire: Phosphor Bronze temper wire, 50u" gold over 100u" nickel undercoat

IDC housing: Polycarbonate resin high-impact UL94V-0 thermoplastic

IDC contact: Phosphor Bronze with nickel undercoat

Mating: 750 mating cycles with FCC compliant RJ-45 plug

Wire accommodation: accommodates 22~24 solid cable for 200 times termination

Operating temperature: -10°C ~ 60°C

Operating humidity: 10% ~ 90%RH

Storage temperature: -40°C ~ 68°C

Electrical Specification

Insulation resistance: 500MΩ

Dielectric withstanding voltage: 1000V AC

Current rating: 1.5Amps

DC resistance: 0.1Ω

Contact resistance: 20mΩ

Standard Verification

TIA/EIA-568-B.2-10 Draft 9.0

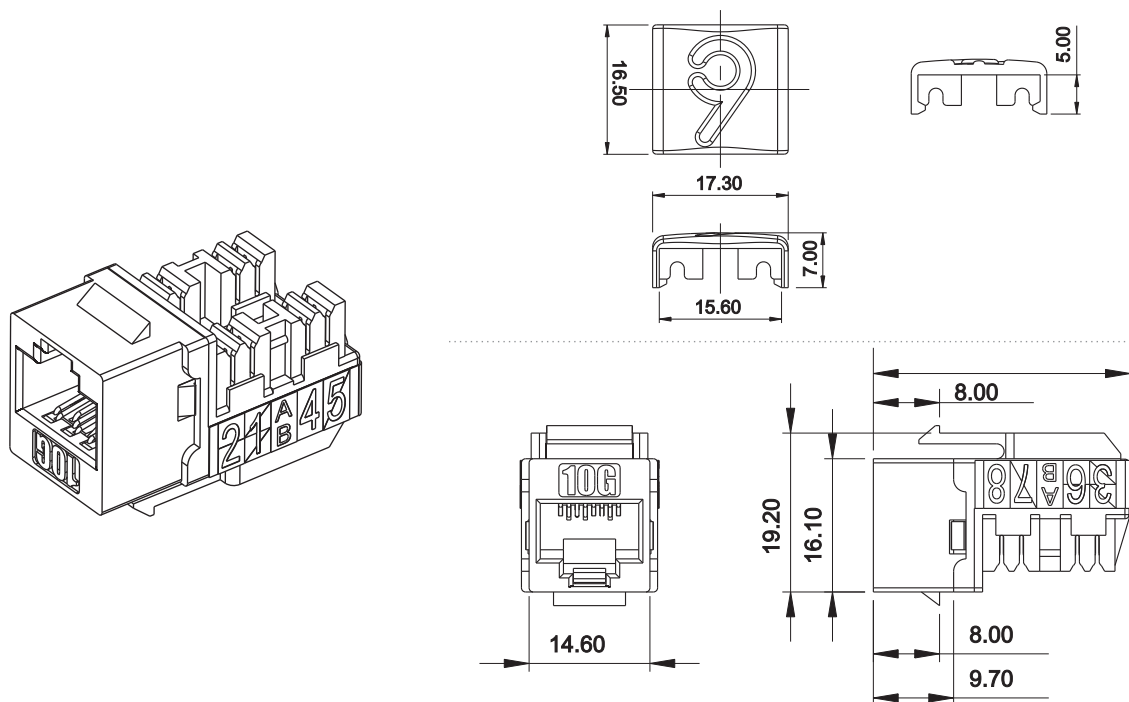
FCC part 68, Subpart F

Amendment 1 to ISO/IEC 11801, 2nd Ed.

UL 1863

Mechanical Drawing

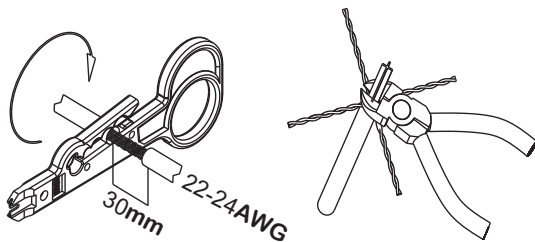
(Unit:mm)



Installation Manual

1

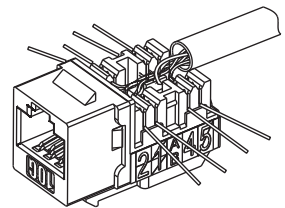
Strip the cable jacket around 30 mm. Spread each pair and then trim off the filler.



2

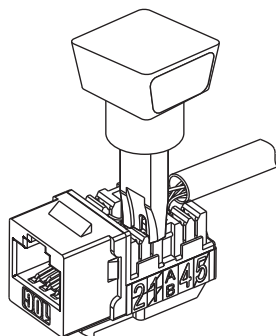
Seat each wire to the desired wiring scheme. Ensure to have untwisted length as short as possible. Also try to avoid overlapping one pair over the other.

Color	T568B	T568A
White-blue	5	5
Blue	4	4
White-orange	1	3
Orange	2	6
White-green	3	1
Green	6	2
White- brown	7	7
Brown	8	8



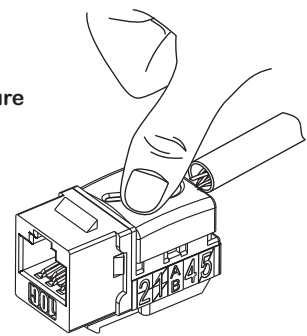
3

Use a 110 impact tool for termination. note: set the tool to "low impact".



4

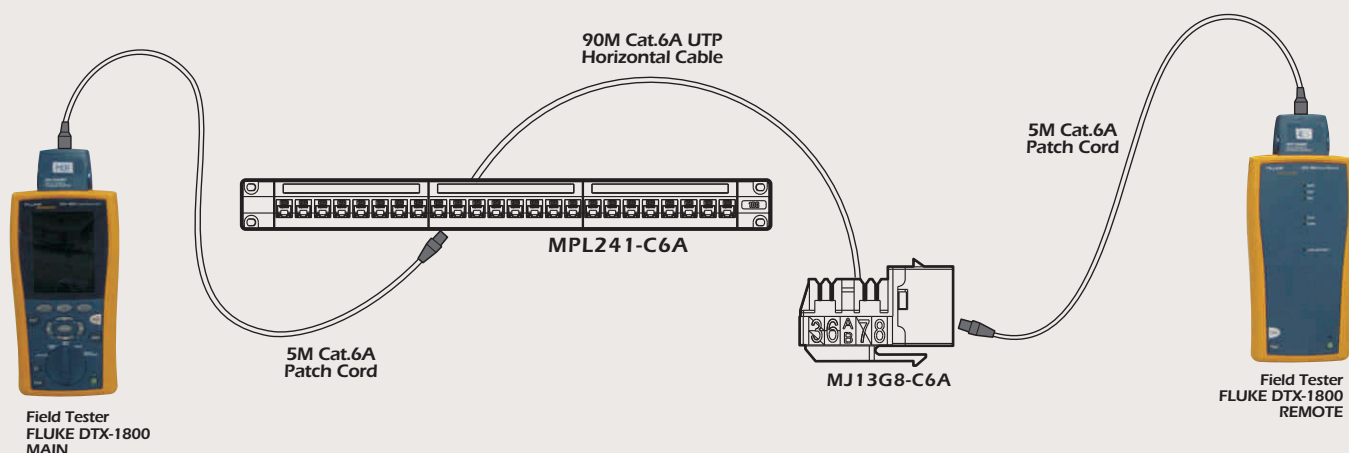
Hood the cap to secure the conductivity and transmission performance.



Note: ANSI/TIA-568-B.2 defines the horizontal cable to be 22-24 AWG insulated solid conductor. Please ensure it's the right cable you're using before installation.

www.LANshack.com

Transmission Performance Test Report



Cable ID: MJ13G8-C6A

Date / Time: 11/30/2007 05:31:00pm
Headroom: 7.7 dB (NEXT 36-45)
Test Limit: TIA Cat 6A Ch draft 8.0
Cable Type: Cat 6A UTP

Operator: Hank Huang
Software Version: 2.0400
Limits Version: 1.2400
NVP: 68.2%

Test Summary: PASS

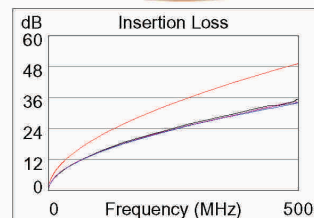
Model: DTX-1800
Main S/N: 9116083
Remote S/N: 9116084
Main Adapter: DTX-CHA001
Remote Adapter: DTX-CHA001

Wire Map (T568B) PASS

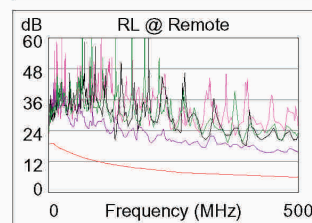
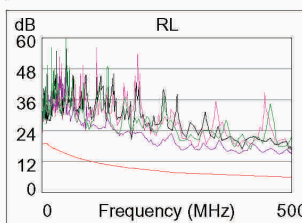
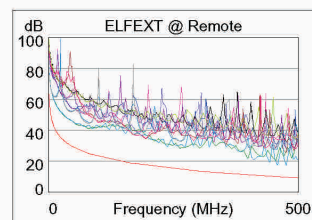
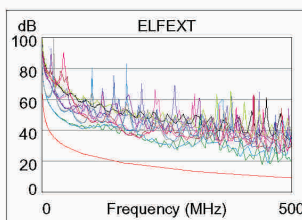
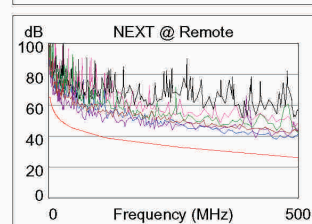
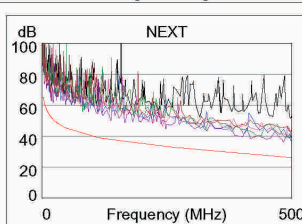


Length (ft), Limit 328 [Pair 12] 276
Prop. Delay (ns), Limit 555 [Pair 45] 439
Delay Skew (ns), Limit 50 [Pair 45] 27
Resistance (ohms) [Pair 78] 13.8

Insertion Loss Margin (dB) [Pair 45] 13.8
Frequency (MHz) [Pair 45] 500.0
Limit (dB) [Pair 45] 49.3



	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-45	12-36
NEXT (dB)	9.0	7.7	9.0	10.9
Freq. (MHz)	484.0	28.6	484.0	455.0
Limit (dB)	26.5	49.1	26.5	27.2
Worst Pair	36	36	36	36
PSNEXT (dB)	10.3	9.9	10.4	11.4
Freq. (MHz)	484.0	28.6	499.0	456.0
Limit (dB)	23.6	46.4	23.3	24.3
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	36-45	45-36
ELFEXT (dB)	7.4	7.7	7.6	7.7
Freq. (MHz)	442.0	476.0	476.0	476.0
Limit (dB)	10.3	9.7	9.7	9.7
Worst Pair	45	36	45	36
PSELFEXT (dB)	10.1	10.0	10.1	10.3
Freq. (MHz)	458.0	442.0	458.0	476.0
Limit (dB)	7.0	7.3	7.0	6.7
PASS	MAIN	SR	MAIN	SR
Worst Pair	36	45	45	45
RL (dB)	7.8	7.9	8.7	7.9
Freq. (MHz)	8.5	438.0	394.0	438.0
Limit (dB)	19.0	6.0	6.0	6.0



Cable ID: CH7 (End 2)

Date / Time: 11/06/2007 06:08:42pm

Test Limit: TIA Cat 6A Ch dr 6.0

Measurement Bias Correction: On

DEC

Operator: PRESENT

Overall Status: **Pass**

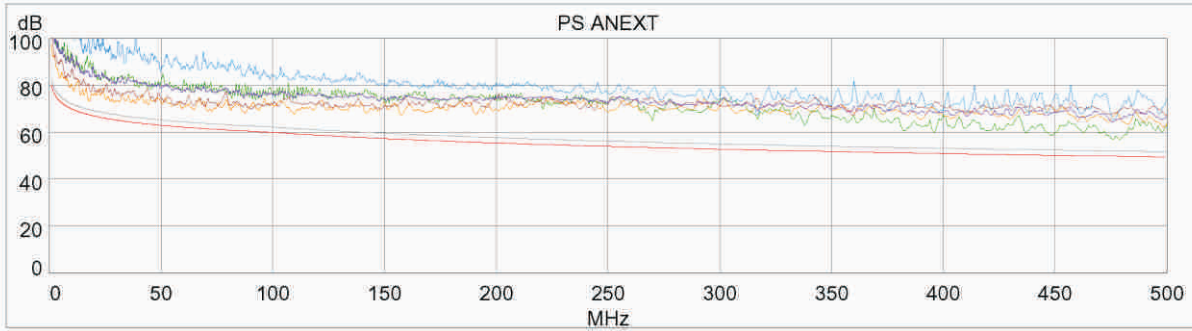
SW Version: 2.1

PS ANEXT

Pair	Frequency	Value	Limit	Margin	Status
12	499.0 MHz	62.34 dB	49.53 dB	12.81 dB	Pass
36	479.0 MHz	56.98 dB	49.79 dB	7.18 dB	Pass
45	476.0 MHz	65.37 dB	49.84 dB	15.54 dB	Pass
78	* All test data above limit caps				Pass
Average	476.0 MHz	64.45 dB	52.09 dB	12.36 dB	Pass

Disturber List

CH1
CH2
CH3
CH4
CH5
CH6

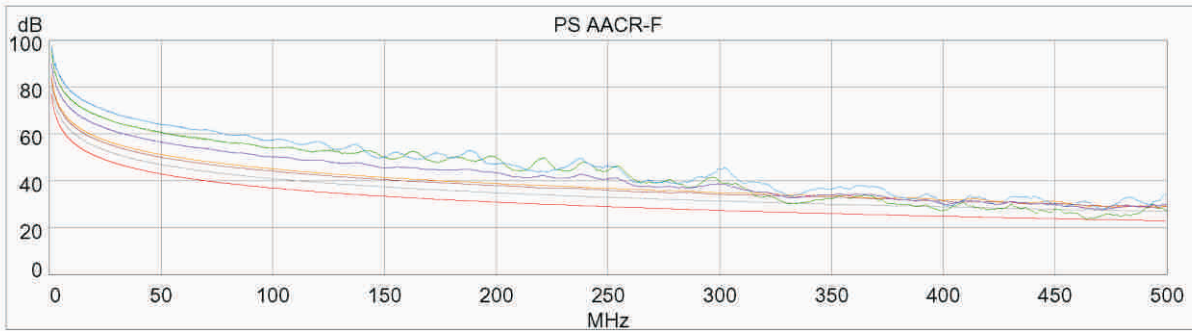


PS AACR-F

Pair	Frequency	Value	Limit	Margin	Status
12	462.0 MHz	28.72 dB	23.71 dB	5.01 dB	Pass
36	464.0 MHz	23.79 dB	23.67 dB	0.12 dB	Pass
45	471.0 MHz	27.89 dB	23.54 dB	4.35 dB	Pass
78	439.0 MHz	29.99 dB	24.15 dB	5.84 dB	Pass
Average	471.0 MHz	27.89 dB	27.54 dB	0.35 dB	Pass

Disturber List

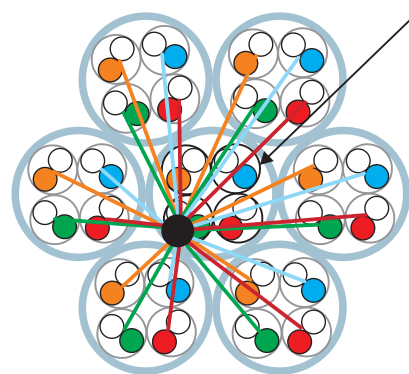
CH1
CH2
CH3
CH4
CH5
CH6



Typical Leading 10G channel performance

Frequency (MHz)	NEXT (dB)	IL (dB)	PSNEXT (dB)	ELFEXT (dB)	PSSELFEXT (dB)	PSANEXT (dB)	PSAELFEXT (dB)	RL (dB)
1	65.0	2.2	62.0	63.3	60.3	75.0	77.0	19.0
4	63.0	4.1	60.5	51.2	48.2	74.0	65.0	19.0
8	58.2	5.7	55.6	45.2	42.2	71.0	58.9	19.0
10	56.6	6.4	54.0	43.3	40.3	70.0	57.0	19.0
16	53.2	8.1	50.6	39.2	36.2	68.0	52.9	18.0
20	51.6	9.1	49.0	37.2	34.2	67.0	51.0	17.5
25	50.6	10.2	47.3	35.3	32.3	66.0	49.0	17.0
31.25	48.4	11.4	45.7	33.4	30.4	65.1	47.1	16.5
62.5	43.4	16.3	40.6	27.3	24.3	62.0	41.1	14.0
100	39.9	20.8	37.1	23.3	20.3	60.0	37.0	12.0
200	34.8	30.0	31.9	17.2	14.2	55.5	31.0	9.0
250	33.1	33.8	30.2	15.3	12.3	54.0	29.0	8.0
300	31.7	37.3	28.8	13.7	10.7	52.8	27.5	7.2
400	28.7	43.6	25.8	11.2	8.2	51.0	25.0	6.0
500	26.1	49.3	23.2	9.3	6.3	49.5	23.0	6.0

Victim Channel



Performance compliant with TIA-568B.2-10