C6A UTP Snap-In Patch Panel

PART NO: MPL241-C6A

Feature



Leading 10G UTP Patch Panel is part of the ACTON' Augmented Category 6 10G cabling solution. Innovative mechanism optimizes the internal magnetic coupling. Each set is equipped with rear cable manager so the bigger O.D. bulk cables could be organized systematically. With 24 port modular-fit design, a reliable and flexible 10Gbps running at 500MHz over UTP copper is provided. ACTON Leading 10G solution – simply the best!

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
Shuttered / unshuttered for options
Accepts 110 punch down tool

Physical Specification

Panel: SPCC black powder coat finish

Plastic frame: ABS high-impact UL94V-0 thermoplastic

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 $^{\circ}$ C ~60 $^{\circ}$ C Operating humidity: 10% ~ 90%RH Storage temperature: -40 $^{\circ}$ C ~68 $^{\circ}$ C

Electrical Specification

Insulation resistance: 500MΩ

Dielectric withstanding voltage: 1000V AC

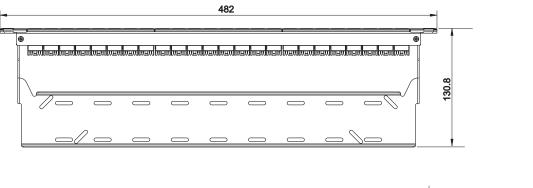
Current rating: 1.5Amps DC resistance: 0.1Ω Contact resistance: 20mΩ

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

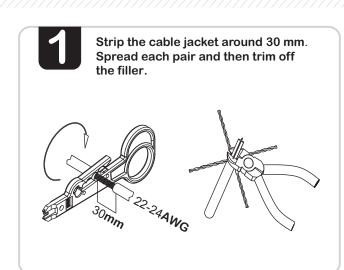
(Unit:mm)







Installation Manual

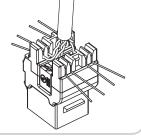




Seat each wire to the desired wiring scheme. Ensure to have untwisted length as short as possible. Also try to avoid

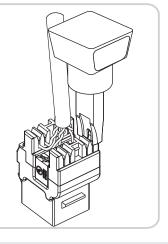
overlapping one pair over the other.

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



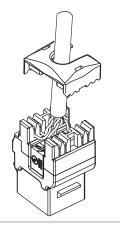
3

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





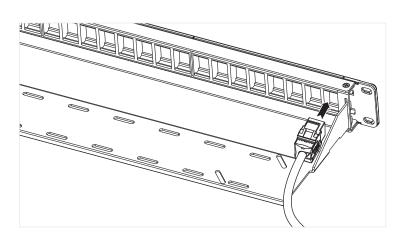
Hood the cap to secure the conductivity and transmission performance.



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.

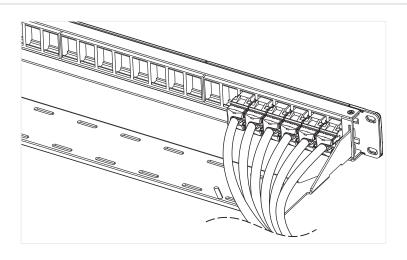
5

Snap the terminated module into the blank panel.



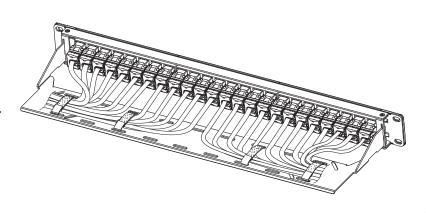
6

Repeat the Sept 5 to complete the installation.

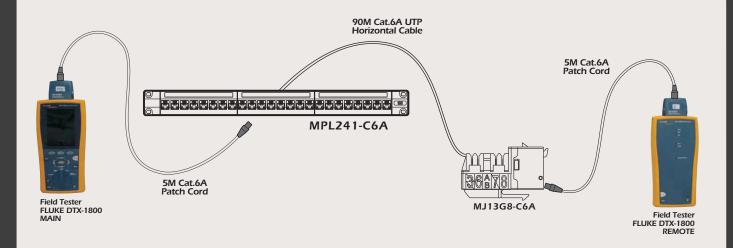


7

In order to stay the performance stable. Please secure bundle cables with attached straps.



Transmission Performance Test Report



Cable ID: MPL241-C6A

Date / Time: 11/30/2007 05:32:23pm Headroom: 7.1 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

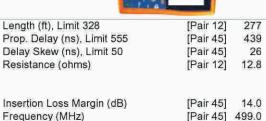
Model: DTX-1800 Main S/N: 9116083 Remote S/N: 9116084 Main Adapter: DTX-CHA001 Remote Adapter: DTX-CHA001

Insertion Loss

dB

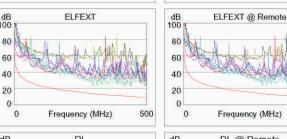
60

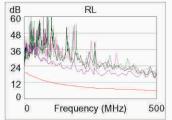


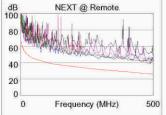


elay Skew (ns), Limit 50	[Pair 45]	26	48
esistance (ohms)	[Pair 12]	12.8	36
			24
nsertion Loss Margin (dB)	[Pair 45]	14.0	12
requency (MHz)	[Pair 45]	499.0	0
imit (dB)	[Pair 45]	49.3	
Worst Case Value	The Part Association		1

	[Pair 45] 49.3	0
dB 100 80	NEXT	dB 100 80
60		60
0 0	Frequency (MHz) 5	20 00 0
dB 100	ELFEXT	dB 100
80 60	A WALLEY WALLEY	80 60
40		40



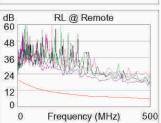




Frequency (MHz)

500

500



	Worst Ca	se Margin	Worst	Case Value
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-45	36-78
NEXT (dB)	7.1	9.4	10.2	12.1
Freq. (MHz)	67.5	77.0	500.0	487.0
Limit (dB)	42.8	41.8	26.1	26.4
Worst Pair	36	36	36	36
PSNEXT (dB)	9.6	11.5	9.8	11.9
Freq. (MHz)	67.5	77.0	494.0	488.0
Limit (dB)	40.0	39.0	23.4	23.5
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	45-36	36-45
ELFEXT (dB)	10.1	10.3	11.5	11.4
Freq. (MHz)	298.0	298.0	420.0	420.0
Limit (dB)	13.8	13.8	10.8	10.8
Worst Pair	45	36	36	36
PSELFEXT (dB)	12.3	12.9	13.9	14.7
Freq. (MHz)	298.0	298.0	420.0	441.0
Limit (dB)	10.8	10.8	7.8	7.4
PASS	MAIN	SR	MAIN	SR
Worst Pair	12	12	45	45
RL (dB)	8.4	8.8	9.0	9.6
Freq. (MHz)	5.3	4.3	429.0	492.0
Limit (dB)	19.0	19.0	6.0	6.0

Li

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

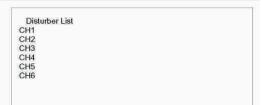
Operator: PRESENT

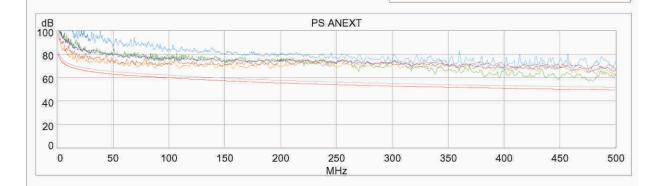
Overall Status: Pass

SW Version: 2.1

PS ANEXT

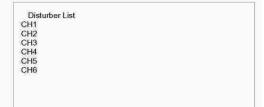
Pair	Frequency	Value	Limit	Margin	Status
12	499.0 MHz	62.34 dB	49.53 dB	12.81 dB	Pass
36	479.0 MHz	56.98 dB	49.79 dB	7.18 dB	Pass
45	476.0 MHz	65.37 dB	49.84 dB	15.54 dB	Pass
78	* All test da	ta above limit	caps		Pass
Average	476.0 MHz	64.45 dB	52.09 dB	12.36 dB	Pass

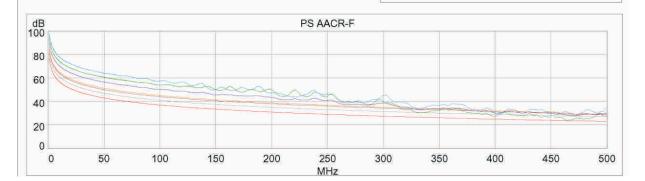




PS AACR-F

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

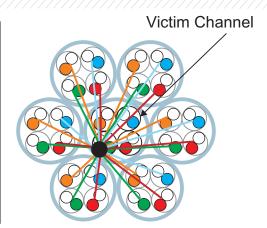




Typical Leading 10G channel performance

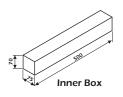
Frequency (Mhz)	NEXT (dB)	IL (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	PSANEXT (dB)	PSAELFEXT (dB)	RL (dB)
1	65.0	2.2	62.0	63.3	60.3	75.0	77.0	19.0
4	63.0	4.1	60.5	51.2	48.2	74.0	65.0	19.0
8	58.2	5.7	55.6	45.2	42.2	71.0	58.9	19.0
10	56.6	6.4	54.0	43.3	40.3	70.0	57.0	19.0
16	53.2	8.1	50.6	39.2	36.2	68.0	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

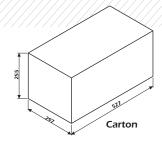
Performance compliant with TIA-568B.2-10



Packaging

1 set per inner box (Dimension: 500*75*70mm)
12 inner box per carton (Dimension: 527*297*255mm)





Ordering Information



P/N	Port	Description
MPL241-C6A	24Port,1unit	Cat.6A channel compliant UTP snap-in
MPL481-C6A	48Port,1unit	patch panel, 110



P/N	Port	Description
MPL242-C6A	24Port,1unit	Cat.6A channel compliant UTP shuttered snap-in
MPL482-C6A	48Port,1unit	patch panel, 110

Relative Products

C6A 180° Keystone Jack

Color Option:









P/N	Color Option
MJ13FD8-C6A-WH	Office White
MJ13FD8-C6A-BK	Black
MJ13FD8-C6A-BL	Blue
MJ13FD8-C6A-RE	Red
MJ13FD8-C6A-YE	Yellow
MJ13FD8-C6A-GN	Green
MJ13FD8-C6A-IV	Electric Ivory

Description

Cat.6A channel compliant UTP top-entry shuttered keystone jack, 110



C6A 90° UTP Keystone Jack Color Option:



P/N	Color Option	Description	
MJ13GD8-C6A-WH	Office White	Cat.6A channel compliant UTP	
MJ13GD8-C6A-BK	Black	right-angled shuttered keystone	- All &
MJ13GD8-C6A-BL	Blue	jack, 110	Alleria di
MJ13GD8-C6A-RE	Red		Mallo V
MJ13GD8-C6A-YE	Yellow		
MJ13GD8-C6A-GN	Green		
MJ13GD8-C6A-IV	Electric Ivory		
			·

A Patch Cord

Color Option:



P/N	Color Option	Description
M409U-BK-YY	Black	Cat.6A UTP patch cord
M409U-BL-YY	Blue	
M409U-RE-YY	Red	
M409U-OR-YY	Orange	
M409U-GN-YY	Green	
M409U-GR-YY	Gray	YY-Length



N Cable

P/N	Description
MU1-C6A	100 Metres Cat.6A UTP solid cable, 23AWG

