

## Cat.6A Die-Casting STP 180° Keystone Jack



- Qualified to Cat.6A/Class E<sub>A</sub> (10G/500Mhz)
- Meet TIA/EIA-568-B.2-10
- Achieve Annex J for Cat.6A 5 Channel Configurations Testing
- RJ45 Jack to EN 50173 series, ISO/IEC 11801, IEC 60603-7-51
- Module can be re-terminated
- Grounding tap for individual protective grounding

# Cat.6A Die-Casting STP 180° Keystone Jack



**TA906ADX-XX**

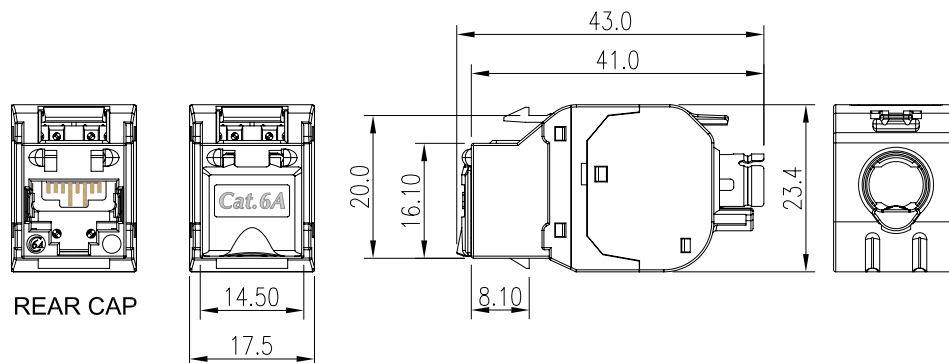
Telebox Category 6A (or Augmented Category 6) products can reach the enhanced performance standards for twisted pair cable systems. Cat6.A is defined at frequencies up to 500 MHz and it can use for 10/100/1000baseT Ethernet. Cat.6A can currently support 10 Gbit/s applications (especially 10GBaseT) up to a maximum distance of 100 meters (330 ft).

For product design, we use special texture of material (Zinc alloy Die-Casting) to improve stabilities with slim dimension, which is suitable for 1U 24port keystone panel. We design a patented hand tool for effortlessly termination and rapidly installation.

## ■ Application:

- 10 Gigabit Ethernet
- 1000Mbps Gigabit Ethernet
- Voice; T1; ISDN
- 10BASE-T (IEEE 802.3)
- 16Mbps Token Ring (IEEE802.5)
- 100VG-AnyLAN (IEEE802.12)
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 550MHz Broadband Video

# Specification



## ■ Specification:

Qualified Cat.6A/Class E<sub>A</sub> (10G/500MHz)  
TIA/EIA-568-B.2-10  
ISO/IEC 11801 2nd Edition  
EN 50173 2nd Edition  
IEC 60603-7-51  
Complies with RoHS

## ■ Electrical:

Current Rating: 1.5Amps  
Insulation resistance: 500 Million ohms minimum  
Contact resistance: 20 milli ohms maximum  
DC resistance: 0.1 ohms maximum

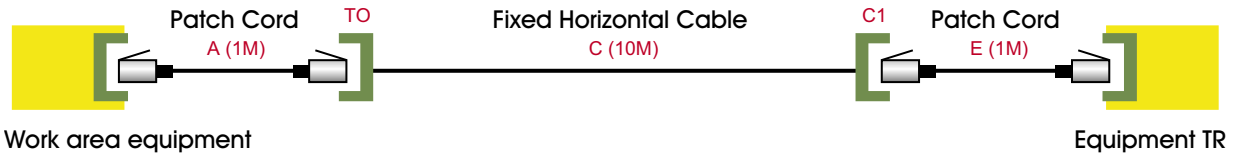
## ■ Mechanical:

Plug insertion life: 750 Cycles minimum  
Plug & Jack contact force: 100 Grams minimum  
Complies with FCC-Part 68  
Plug retention force: 30 lbs minimum  
Min-max serving temperature for short term(24H): -40°C to 125°C  
for long term: -20°C to 105°C

## ■ Physicals:

Housing & Cap: Zinc alloy die-casting  
Housing: High impact flame retardant plastic  
PCB: Flame-retardant substrate  
Jack Wiring: Phosphor bronze gold over nickel plating  
Connector: Insulation displacement connector  
(IDC) Accept #23~26 AWG solid wire

# TIA-568-B.2-10 ANNEX J Test Report



TIA/EIA-568-B.2-10 Cat.6A Channel Test Report  
1M+10M+1M



Cable ID: RTA906ADX-XX

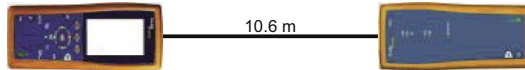
Test Summary: PASS

Date / Time: 09/22/2009 12:03:16pm  
Headroom: 6.9 dB (NEXT 36-45)  
Test Limit: TIA Cat 6A Channel  
Cable Type: Draka(10m)-Cat 7 S/FTP

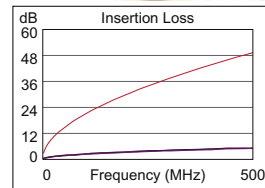
Operator: Jeff  
Software Version: 2.2200  
Limits Version: 1.3700  
NVP: 68.2%

Model: DTX-1800  
Main S/N: 9718077  
Remote S/N: 9718078  
Main Adapter: DTX-CHA001  
Remote Adapter: DTX-CHA001

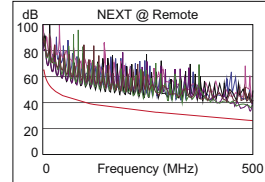
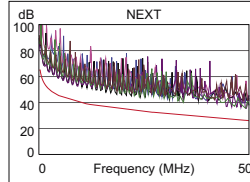
Wire Map (T568B)  
PASS



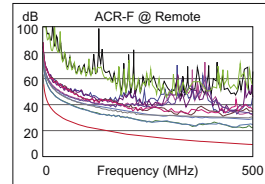
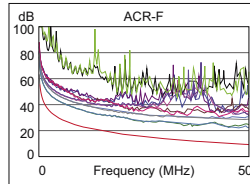
Length (m), Limit 100.0	[Pair 36]	10.6
Prop. Delay (ns), Limit 555		53
Delay Skew (ns), Limit 50		1
Resistance (ohms)	[Pair 12]	4.6
Insertion Loss Margin (dB)	[Pair 36]	41.5
Frequency (MHz)	[Pair 36]	459.0
Limit (dB)	[Pair 36]	47.1



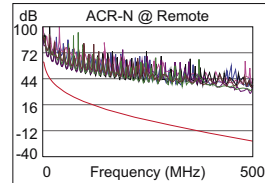
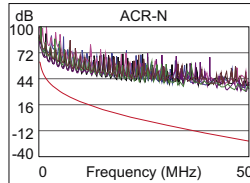
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	36-45	36-45	36-45
<b>NEXT (dB)</b>	9.1	6.9	9.1	6.9
Freq. (MHz)	493.0	482.0	493.0	482.0
Limit (dB)	26.3	26.5	26.3	26.5
Worst Pair	36	36	36	36
<b>PS NEXT (dB)</b>	8.8	7.8	8.8	7.9
Freq. (MHz)	492.0	482.0	492.0	494.0
Limit (dB)	23.4	23.7	23.4	23.4



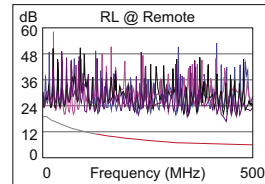
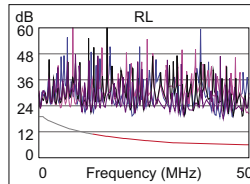
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	45-36	36-45	45-36	36-45
<b>ACR-F (dB)</b>	10.9	10.9	11.4	11.4
Freq. (MHz)	355.0	355.0	462.0	462.0
Limit (dB)	12.3	12.3	10.0	10.0
Worst Pair	45	45	36	45
<b>PS ACR-F (dB)</b>	12.8	13.0	14.0	13.6
Freq. (MHz)	248.0	248.0	462.0	464.0
Limit (dB)	12.4	12.4	7.0	6.9



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	36-45	36-45	36-45	36-45
<b>ACR-N (dB)</b>	17.4	18.3	53.0	50.0
Freq. (MHz)	3.0	2.8	493.0	482.0
Limit (dB)	61.4	61.5	-22.7	-21.8
Worst Pair	36	36	36	36
<b>PS ACR-N (dB)</b>	18.3	19.5	52.5	51.7
Freq. (MHz)	3.0	2.8	492.0	494.0
Limit (dB)	58.4	58.5	-25.5	-25.6



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12	12	78	78
<b>RL (dB)</b>	9.9	9.6	12.0	10.7
Freq. (MHz)	130.0	132.0	439.0	438.0
Limit (dB)	10.9	10.8	6.0	6.0



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

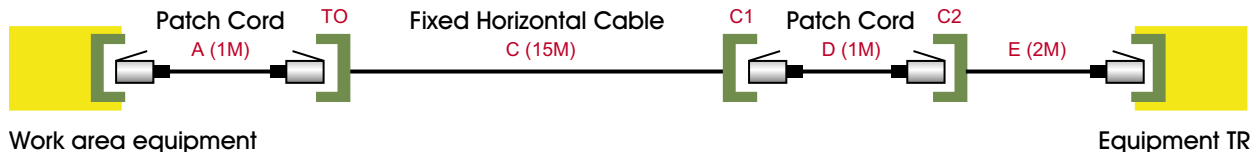
LinkWare Version 6.0

Project: DEFAULT  
Site: Client Name



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# TIA-568-B.2-10 ANNEX J Test Report



TIA/EIA-568-B.2-10 Cat.6A Channel Test Report  
1M+15M+1M+2M



Cable ID: RTA906ADX-XX

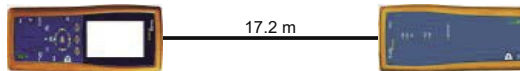
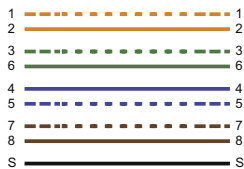
Test Summary: PASS

Date / Time: 09/22/2009 01:14:23pm  
Headroom: 5.1 dB (NEXT 36-78)  
Test Limit: TIA Cat 6A Channel  
Cable Type: Draka(15m)-Cat 7 S/FTP

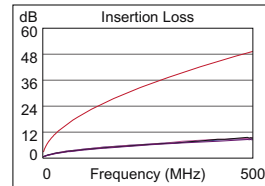
Operator: Jeff  
Software Version: 2.2200  
Limits Version: 1.3700  
NVP: 68.2%

Model: DTX-1800  
Main S/N: 9718077  
Remote S/N: 9718078  
Main Adapter: DTX-CHA001  
Remote Adapter: DTX-CHA001

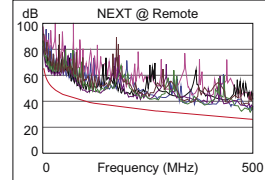
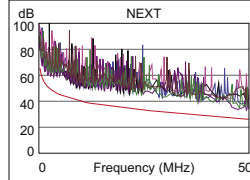
Wire Map (T568B)  
PASS



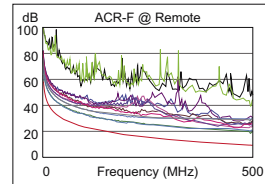
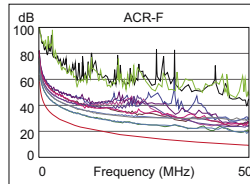
Length (m), Limit 100.0	[Pair 45]	17.2
Prop. Delay (ns), Limit 555		86
Delay Skew (ns), Limit 50		2
Resistance (ohms)	[Pair 12]	7.3
Insertion Loss Margin (dB)	[Pair 45]	39.1
Frequency (MHz)	[Pair 45]	488.0
Limit (dB)	[Pair 45]	48.7



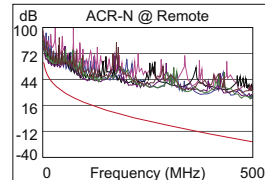
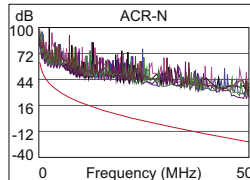
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	36-78	36-45	36-78
<b>NEXT (dB)</b>	6.2	5.1	6.2	5.1
Freq. (MHz)	487.0	472.0	487.0	486.0
Limit (dB)	26.4	26.8	26.4	26.4
Worst Pair	36	36	36	36
<b>PS NEXT (dB)</b>	7.9	5.8	8.1	5.8
Freq. (MHz)	487.0	486.0	500.0	495.0
Limit (dB)	23.5	23.6	23.2	23.3



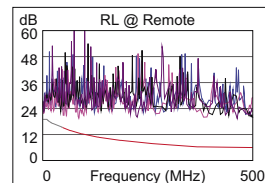
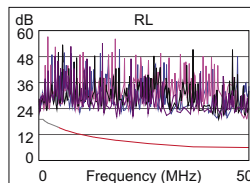
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	45-36	45-36	36-45
<b>ACR-F (dB)</b>	8.6	8.4	9.1	8.8
Freq. (MHz)	191.5	191.5	495.0	488.0
Limit (dB)	17.6	17.6	9.4	9.5
Worst Pair	45	45	36	45
<b>PS ACR-F (dB)</b>	10.2	10.3	10.9	10.7
Freq. (MHz)	72.3	90.0	487.0	495.0
Limit (dB)	23.1	21.2	6.5	6.4



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	36-45	36-45	36-45	36-78
<b>ACR-N (dB)</b>	13.2	12.5	45.2	45.1
Freq. (MHz)	7.0	6.8	487.0	486.0
Limit (dB)	53.7	54.0	-22.2	-22.1
Worst Pair	36	36	36	36
<b>PS ACR-N (dB)</b>	14.7	13.8	48.0	45.4
Freq. (MHz)	6.6	5.3	500.0	495.0
Limit (dB)	51.7	53.9	-26.1	-25.7



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12	36	12	45
<b>RL (dB)</b>	10.0	4.9	12.7	12.8
Freq. (MHz)	97.8	49.5	429.0	489.0
Limit (dB)	12.1	15.1	6.0	6.0



Compliant Network Standards:  
 10BASE-T      100BASE-T4  
 100BASE-T    100BASE-T    ATM-25  
 ATM-51        ATM-155      100VG-AnyLan  
 TR-4            TR-16 Active   TR-16 Passive

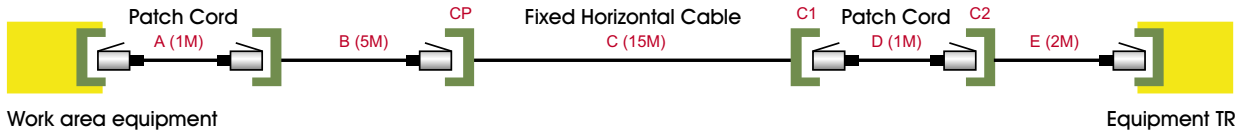
LinkWare Version 6.0

Project: DEFAULT  
Site: Client Name



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# TIA-568-B.2-10 ANNEX J Test Report



TIA/EIA-568-B.2-10 Cat.6A Channel Test Report  
 1M+5M+15M+1M+2M



Cable ID: RTA906ADX-XX

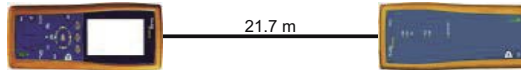
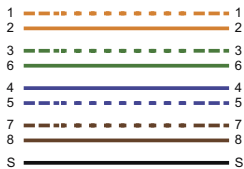
Test Summary: PASS

Date / Time: 09/22/2009 01:15:39pm  
 Headroom: 5.0 dB (NEXT 36-45)  
 Test Limit: TIA Cat 6A Channel  
 Cable Type: Draka(15m)-Cat 7 S/FTP

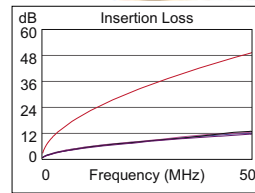
Operator: Jeff  
 Software Version: 2.2200  
 Limits Version: 1.3700  
 NVP: 68.2%

Model: DTX-1800  
 Main S/N: 9718077  
 Remote S/N: 9718078  
 Main Adapter: DTX-CHA001  
 Remote Adapter: DTX-CHA001

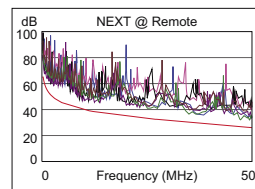
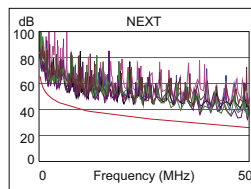
Wire Map (T568B)  
 PASS



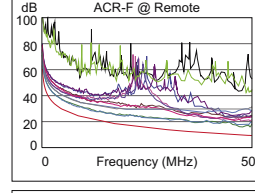
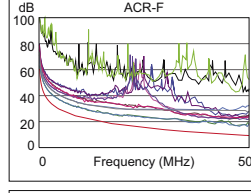
Length (m), Limit 100.0	[Pair 45]	21.7
Prop. Delay (ns), Limit 555		109
Delay Skew (ns), Limit 50		3
Resistance (ohms)	[Pair 12]	9.8
Insertion Loss Margin (dB)	[Pair 45]	35.0
Frequency (MHz)	[Pair 45]	481.0
Limit (dB)	[Pair 45]	48.3



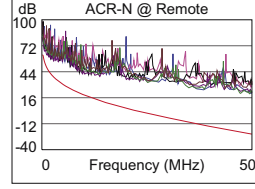
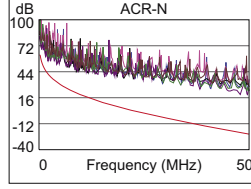
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	36-78	36-45	36-78
<b>NEXT (dB)</b>	5.0	5.1	5.0	5.1
Freq. (MHz)	475.0	472.0	475.0	472.0
Limit (dB)	26.7	26.8	26.7	26.8
Worst Pair	36	36	36	36
<b>PS NEXT (dB)</b>	6.7	5.5	6.8	5.5
Freq. (MHz)	453.0	486.0	478.0	486.0
Limit (dB)	24.4	23.6	23.7	23.6



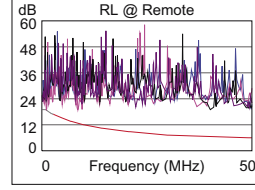
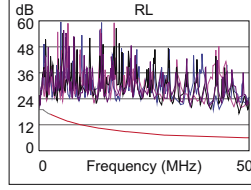
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	45-36	36-45	45-36	36-45
<b>ACR-F (dB)</b>	6.4	5.4	6.4	5.4
Freq. (MHz)	475.0	476.0	475.0	476.0
Limit (dB)	9.7	9.7	9.7	9.7
Worst Pair	45	45	36	45
<b>PS ACR-F (dB)</b>	7.7	7.9	8.1	8.2
Freq. (MHz)	84.0	23.6	475.0	475.0
Limit (dB)	21.8	32.8	6.7	6.7



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	36-45	36-45	36-45	36-78
<b>ACR-N (dB)</b>	13.4	11.1	39.7	42.4
Freq. (MHz)	6.3	5.5	475.0	486.0
Limit (dB)	54.8	56.0	-21.2	-22.1
Worst Pair	78	36	36	36
<b>PS ACR-N (dB)</b>	14.4	12.7	43.6	42.3
Freq. (MHz)	5.3	5.3	496.0	494.0
Limit (dB)	53.9	53.9	-25.8	-25.6



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	45	36	45	36
<b>RL (dB)</b>	7.1	5.9	11.0	5.9
Freq. (MHz)	42.5	86.0	477.0	86.3
Limit (dB)	15.7	12.7	6.0	12.6



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

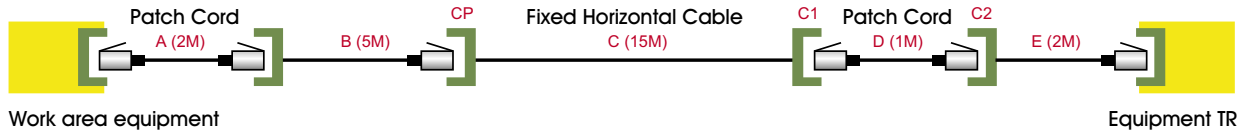
LinkWare Version 6.0

Project: DEFAULT  
 Site: Client Name



090922-ta90.fiw

# TIA-568-B.2-10 ANNEX J Test Report



TIA/EIA-568-B.2-10 Cat.6A Channel Test Report  
2M+5M+15M+1M+2M



Cable ID: RTA906ADX-XX

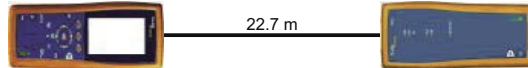
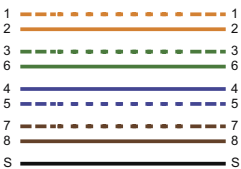
Test Summary: **PASS**

Date / Time: 09/22/2009 01:16:15pm  
Headroom: 5.2 dB (NEXT 36-78)  
Test Limit: TIA Cat 6A Channel  
Cable Type: Draka(15m)-Cat 7 S/FTP

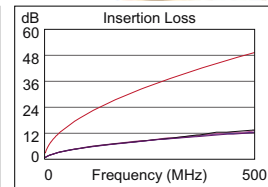
Operator: Jeff  
Software Version: 2.2200  
Limits Version: 1.3700  
NVP: 68.2%

Model: DTX-1800  
Main S/N: 9718077  
Remote S/N: 9718078  
Main Adapter: DTX-CHA001  
Remote Adapter: DTX-CHA001

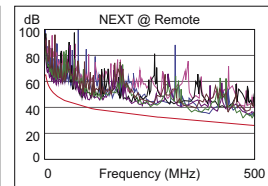
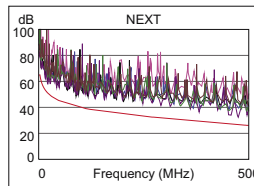
Wire Map (T568B)  
**PASS**



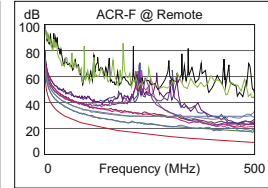
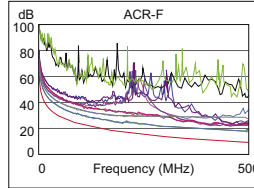
Length (m), Limit 100.0	[Pair 36]	22.7
Prop. Delay (ns), Limit 555		113
Delay Skew (ns), Limit 50		2
Resistance (ohms)	[Pair 36]	6.9
Insertion Loss Margin (dB)	[Pair 45]	34.6
Frequency (MHz)	[Pair 45]	481.0
Limit (dB)	[Pair 45]	48.3



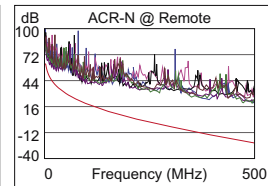
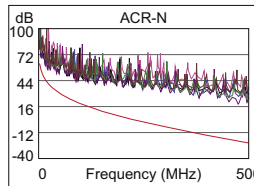
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	36-78	36-45	36-78
<b>NEXT (dB)</b>	5.7	5.2	5.7	5.4
Freq. (MHz)	475.0	472.0	475.0	486.0
Limit (dB)	26.7	26.8	26.7	26.4
Worst Pair	36	36	36	36
<b>PS NEXT (dB)</b>	7.2	5.3	7.5	5.3
Freq. (MHz)	453.0	486.0	474.0	486.0
Limit (dB)	24.4	23.6	23.8	23.6



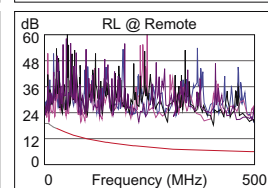
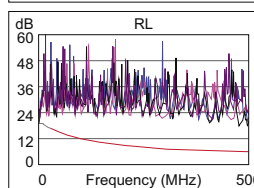
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	45-36	36-45	45-36	36-45
<b>ACR-F (dB)</b>	6.4	5.4	6.5	5.4
Freq. (MHz)	199.0	475.0	475.0	475.0
Limit (dB)	17.3	9.7	9.7	9.7
Worst Pair	45	45	36	45
<b>PS ACR-F (dB)</b>	7.7	7.7	8.2	8.4
Freq. (MHz)	412.0	68.3	475.0	475.0
Limit (dB)	8.0	23.6	6.7	6.7



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	12-78	36-45	36-45	36-78
<b>ACR-N (dB)</b>	13.6	11.0	39.9	41.8
Freq. (MHz)	5.5	5.8	475.0	486.0
Limit (dB)	56.0	55.6	-21.2	-22.1
Worst Pair	78	36	45	36
<b>PS ACR-N (dB)</b>	14.4	12.6	42.5	42.2
Freq. (MHz)	5.4	6.0	475.0	500.0
Limit (dB)	53.7	52.6	-24.1	-26.1



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	45	36	45	45
<b>RL (dB)</b>	6.0	6.6	11.9	12.3
Freq. (MHz)	42.0	87.0	477.0	402.0
Limit (dB)	15.8	12.6	6.0	6.0



Compliant Network Standards:  
 100BASE-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

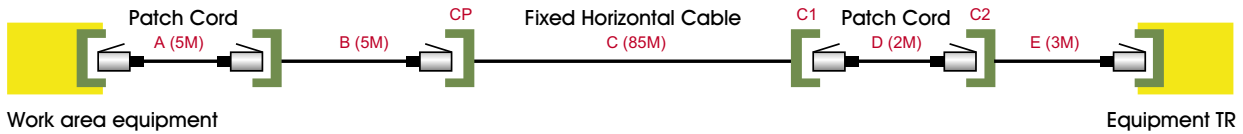
LinkWare Version: 6.0

Project: DEFAULT  
Site: Client Name



090922-ta90.flw

# TIA-568-B.2-10 ANNEX J Test Report



TIA/EIA-568-B.2-10 Cat.6A Channel Test Report  
5M+5M+85M+2M+3M



Cable ID: RTA906ADX-XX

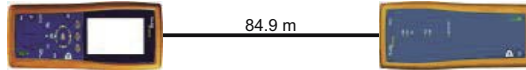
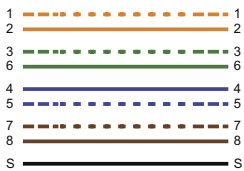
Test Summary: PASS

Date / Time: 09/22/2009 01:21:20pm  
Headroom: 8.1 dB (NEXT 36-45)  
Test Limit: TIA Cat 6A Channel  
Cable Type: CTI(85m)-Cat 6A S/FTP

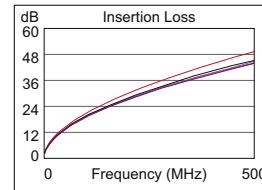
Operator: Jeff  
Software Version: 2.2200  
Limits Version: 1.3700  
NVP: 68.2%

Model: DTX-1800  
Main S/N: 9718077  
Remote S/N: 9718078  
Main Adapter: DTX-CHA001  
Remote Adapter: DTX-CHA001

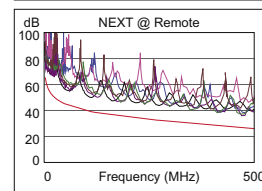
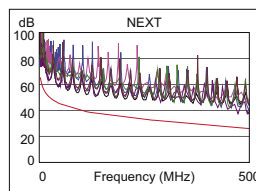
Wire Map (T568B)  
PASS



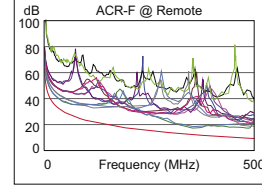
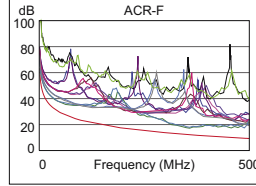
Length (m), Limit 100.0	[Pair 36]	84.9
Prop. Delay (ns), Limit 555		422
Delay Skew (ns), Limit 50		7
Resistance (ohms)	[Pair 12]	16.3
Insertion Loss Margin (dB)	[Pair 45]	4.1
Frequency (MHz)	[Pair 45]	500.0
Limit (dB)	[Pair 45]	49.3



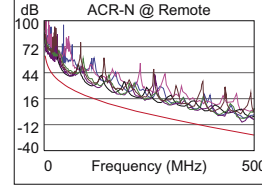
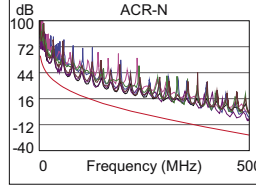
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	36-45	36-45	36-45
<b>NEXT (dB)</b>	10.3	8.1	10.7	8.1
Freq. (MHz)	2.6	472.0	474.0	472.0
Limit (dB)	65.0	26.8	26.7	26.8
Worst Pair	36	36	36	36
<b>PS NEXT (dB)</b>	11.9	8.2	12.1	8.2
Freq. (MHz)	475.0	415.0	498.0	476.0
Limit (dB)	23.8	25.4	23.3	23.8



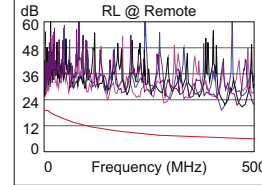
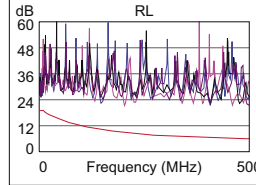
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	36-45	36-45	36-45
<b>ACR-F (dB)</b>	5.0	4.6	5.0	7.1
Freq. (MHz)	355.0	357.0	358.0	483.0
Limit (dB)	12.3	12.2	12.2	9.6
Worst Pair	45	36	45	45
<b>PS ACR-F (dB)</b>	7.8	7.9	8.4	8.5
Freq. (MHz)	358.0	351.0	476.0	488.0
Limit (dB)	9.2	9.4	6.7	6.5



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	36-45	36-45	36-45	36-45
<b>ACR-N (dB)</b>	10.3	8.9	15.4	11.1
Freq. (MHz)	2.6	4.0	497.0	472.0
Limit (dB)	61.6	58.9	-23.0	-21.0
Worst Pair	36	36	36	36
<b>PS ACR-N (dB)</b>	12.3	10.6	16.6	13.1
Freq. (MHz)	3.9	4.0	498.0	478.0
Limit (dB)	56.7	56.4	-25.9	-24.4



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12	36	36	12
<b>RL (dB)</b>	5.8	6.9	12.3	13.3
Freq. (MHz)	3.9	2.8	203.5	422.0
Limit (dB)	19.0	19.0	8.9	6.0



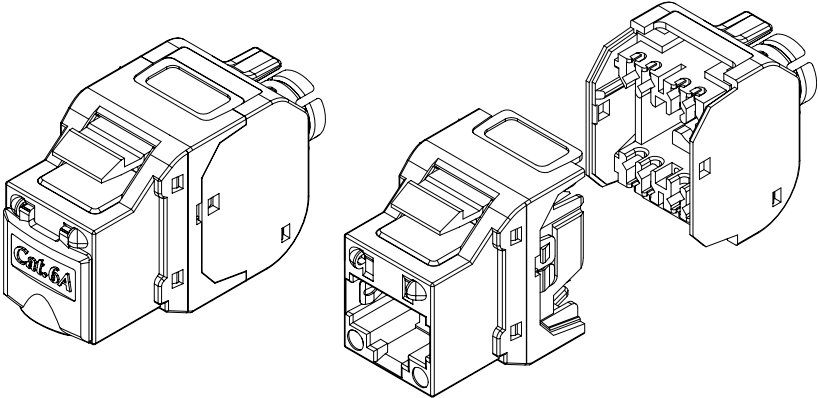
Compliant Network Standards:  
10BASE-T 100BASE-TX 100BASE-T4  
100BASE-T 10GBASE-T 10GBASE-T  
ATM-51 ATM-155 ATM-155  
TR-4 TR-16 Active TR-16 Passive

LinkWare Version 6.0

Project: DEFAULT  
Site: Client Name



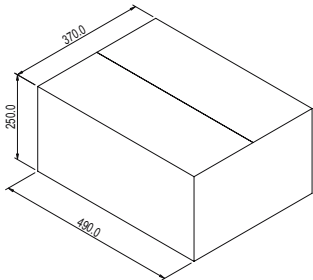
# Ordering Information



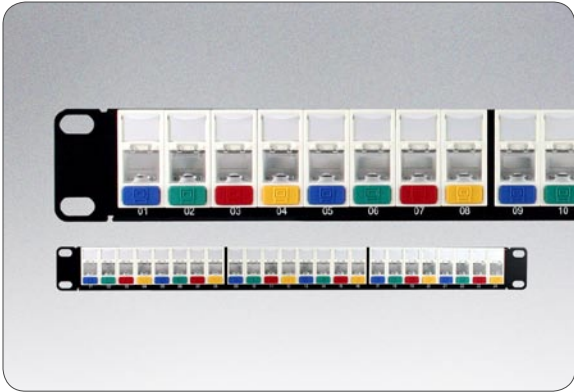
<b>TA90</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>-</b>	<b>XX</b>
	6A : Cat.6A 68 : Cat.6 58 : Cat.5e	D : Die casting	D : door T : without door		BK:Black WH:White

■ **Packing:**

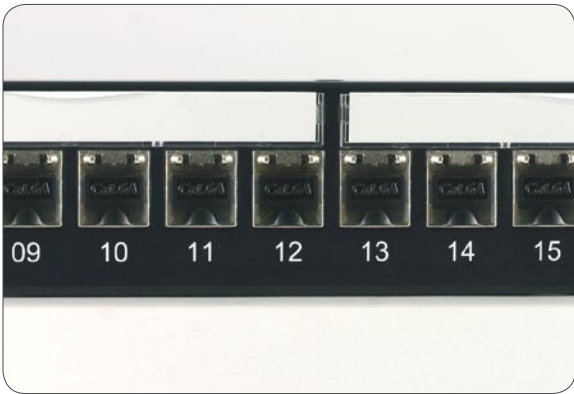
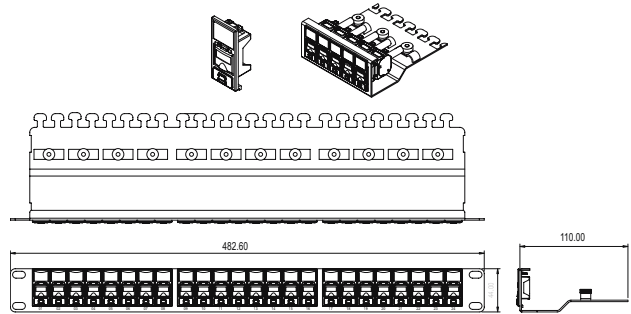
- 1pc/printed bag
- 500pcs/carton



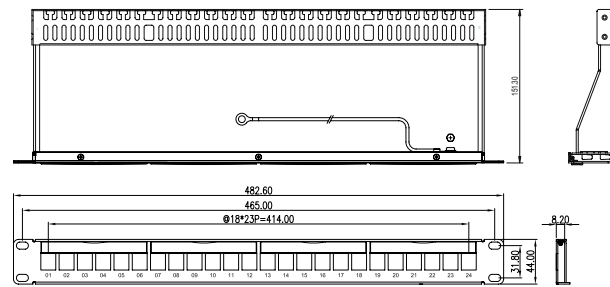
# Cat.6A 10Gb Relative Products



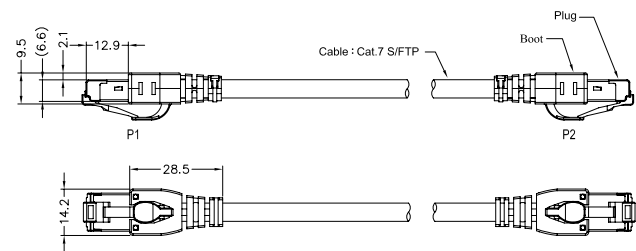
■ FP24XX Keystone Type Patch Panel



■ KP24XX Keystone Type



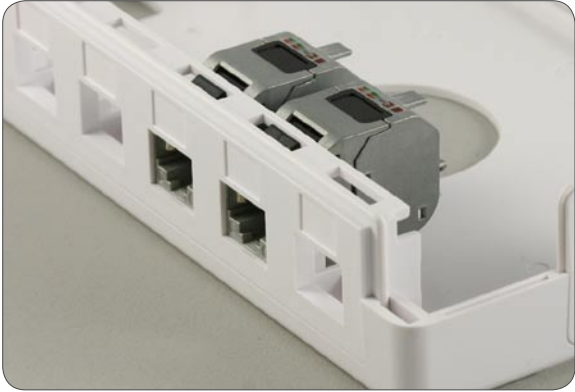
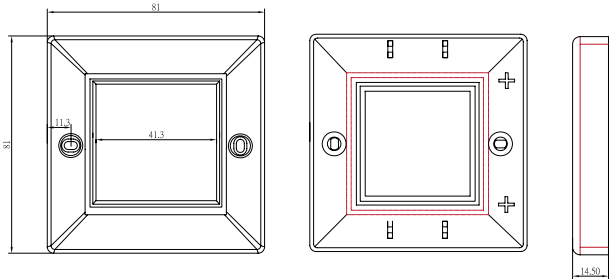
■ SF33AXX STP Patch Cord



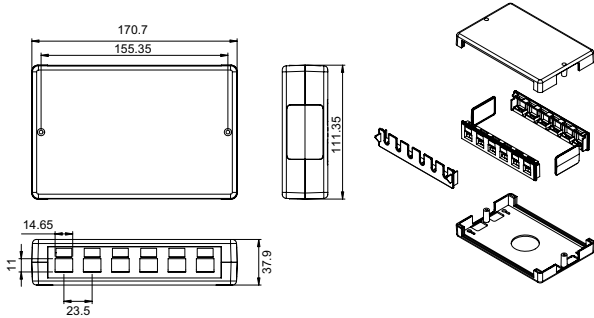
# Relative Products



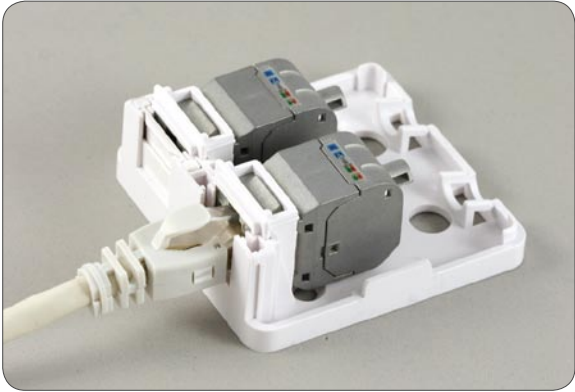
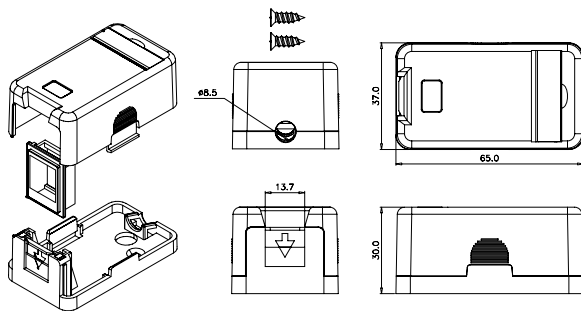
■ TA52202 French Wallplate (81x81)



■ TA6468 6/12 ports Surface Mount Box



■ TA6108-KWH 1P Surface Mount Box



■ TA6288-KWH 2P Surface Mount Box

