

NETCONI

#### Description

AMP NETCONNECT Category 5e 110Connect Patch Panels exceed TIA and ISO requirements for Enhanced Category 5 performance. The AMP NETCONNECT Category 5e System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-Tx), 10/100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband [550 MHz] and baseband) and digital video and analog and digital voice (VoIP). AMP NETCONNECT Category 5e 110Connect Patch Panels feature universal wiring labels which permit field installation to either T568A or T568B wiring, simplifying both ordering and inventory. 110Connect Patch Panel punchdown blocks are compatible with standard 110 and Krone single-wire tools as well as standard 110 5-pair tools. AMP NETCONNECT Category 5e 110Connect Patch Panels are designed with "6-pack" modules that accept 9mm and 12mm (included) labels as well as colored icons. These 6-pack modules may also be replaced individually if necessary. AMP NETCONNECT Patch Panels mount to standard 19" racks.

### **Specification** (text in brackets [] requires a choice)

Patch Panels shall be [1U, 2U, 4U or 10in], and provide [12, 24, 48 or 96] RJ-45 (8-position – 4-pair) modular jack ports. Patch panels shall utilize replaceable, 6-port PCB modules. Each module shall be capable of accepting 9 – 12mm labels. Each port on a module shall be capable of accepting an icon to indicate its function. Patch Panels shall terminate building cabling on 110-style insulation displacement connectors and shall be provided with color-coded labeling for both T568A and T568B wiring. Patch Panels shall be wired to [T568A or T568B]. Patch Panels shall meet EIA/TIA-568-B requirements for Category 5e component performance as well as the performance requirements listed in the following table [include Performance Characteristics table from second page]. Patch Panels shall be UL Listed under file number E81956. Patch Panels shall be AMP NETCONNECT part number(s) [406330-1, 406331-1, 406332-1, 406330-1 and/or 406981-1].

### **Part Numbers**

Description	Number of Ports	Height	Part Numbers
	12	*	406390-1
	12	1.75" (1U)	406981-1
Category 5e, 110Connect Patch Panel	24	1.75" (1U)	406330-1
	48	3.50" (2U)	406331-1
	96	7.00" (4U)	406332-1
*Mini notoh nonol dimonsiona: 10.0" H x 2.2" D	Mounto vortically o	n QOD brook	at (included)

\*Mini patch panel dimensions: 10.0" H x 2.3" D. Mounts vertically on 89D bracket (included).

# Category 5e 110Connect Patch Panels

406330-1, 406331-1, 406332-1, 406390-1, 406981-1

## Typical Worst-Case Performance Characteristics (exceed TIA/EIA-568-B.2 Category 5e)

Frequency, MHz	Attenuat	tion, dB	NEX	T, dB PS NEXT, dB		FEXT, dB		Return Loss, dB		
	Standard	Max.	Standard	Min.	Standard	Min.	Standard	Min.	Standard	Min.
1	0.1	0.05	65.0	85.9	-	83.9	65.0	83.5	35.0	54.2
4	0.1	0.05	65.0	72.7	-	70.9	63.1	73.1	35.0	47.8
8	0.1	0.05	64.9	66.9	-	65.0	57.0	67.5	35.0	42.8
10	0.1	0.05	63.0	64.9	-	63.0	55.1	65.5	35.0	41.0
16	0.2	0.10	58.9	60.7	-	58.9	51.0	61.5	35.0	37.2
20	0.2	0.10	57.0	58.9	-	57.1	49.1	59.8	34.0	35.5
25	0.2	0.10	55.0	56.9	-	55.1	47.1	57.8	32.0	33.7
31.25	0.2	0.10	53.1	54.9	-	53.0	45.2	55.8	30.1	31.8
62.5	0.3	0.15	47.1	49.0	-	46.7	39.2	50.2	24.1	26.2
100	0.4	0.20	43.0	44.5	-	41.9	35.1	45.9	20.0	22.6
155	-	0.26	-	36.5	-	36.2	-	28.3	-	16.2
200	-	0.29	-	32.0	-	34.0	-	26.1	-	14.0
250	-	0.32	-	27.8	-	32.0	-	24.1	-	12.0
300	-	0.36	_	26.0	-	30.5	_	22.6	-	10.5
350	-	0.38	_	23.5	-	29.1	_	21.2	-	9.1

### **Technical Details**

Materials       Panel (406390 and 406332) –       Black anodized aluminum         Panel (406330, 331, 332) –       Black powder-coated steel         Jack Housing –       Polyphenylene oxide, 94V-0 rated         Plost       Polycarbonate, 94V-0 rated         Phosphorous bronze, plated with 1.27µm [.000050in] thick gold in localized area and 3.81µm [.000150in] minimum thick nickel underplate.         Durability       Modular Jack –         110 Blocks –       750 mating cycles         200 termination cycles       200 termination cycles         Packaging       1 per box/ 5 boxes per carton, 9 lbs         406330 –       1 per box/ 5 boxes per carton, 9 lbs         406331 –       1 per box/ 5 boxes per carton, 9 lbs         406330 –       1 per box/ 5 boxes per carton, 9 lbs         406330 –       1 per box/ 5 boxes per carton, 9 lbs         406390 –       1 per box/ 5 boxes per carton, 9 lbs         406391 –       1 per box/ 5 boxes per carton, 9 lbs         406390 –       1 per box/ 5 boxes per carton, 8 lbs		•						
Panel (406330, 331, 332)-       Black powder-coated steel         Jack Housing -       Polyphenylene oxide, 94V-0 rated         Polycarbonate, 94V-0 rated       Phosphorous bronze, plated with 1.27µm [.000050in] thick gold in localized area and 3.81µm [.000150in] minim         Jack Contacts -       Phosphorous bronze, plated with 1.27µm [.000050in] minimum thick nickel underplate.         Durability       Modular Jack -       750 mating cycles         110 Blocks -       200 termination cycles         Packaging       406330 -       1 per box/ 5 boxes per carton, 9 lbs         406332 -       1 per box, 4.26 lbs         406390 -       1 per box, 4.26 lbs         406981 -       1 per box, 5 boxes per carton, 8 lbs								
Jack Housing –       Polyphenylene oxide, 94V-0 rated         110 Blocks –       Jack Contacts –         Jack Contacts –       Phosphorous bronze, plated with 1.27µm [.000050in] thick gold in localized area and 3.81µm [.000150in] minimum thick nickel underplate.         Durability       Modular Jack –         110 Blocks –       750 mating cycles         200 termination cycles       200 termination cycles         Packaging       406330 –         406331 –       1 per box/ 5 boxes per carton, 9 lbs         406332 –       1 per box/ 5 boxes per carton, 13 lbs         406390 –       1 per box, 1 bs         406981 –       1 per box, 5 boxes per carton, 8 lbs								
110 Blocks –       Polycarbonate, 94V-0 rated         Jack Contacts –       Phosphorous bronze, plated with 1.27μm [.000050in] thick gold in localized area and 3.81μm [.000150in] minim         Durability       Modular Jack –       750 mating cycles         110 Blocks –       200 termination cycles         Packaging       406330 –       1 per box/ 5 boxes per carton, 9 lbs         406331 –       1 per box/ 5 boxes per carton, 13 lbs         406332 –       1 per box/ 5 boxes per carton, 8 lbs         Auto330 –       1 per box/ 5 boxes per carton, 8 lbs         UL Listed, File Number E81956       UL Listed, File Number E81956	· · ·	,	Black powder-coated steel					
Jack Contacts –       Phosphorous bronze, plated with 1.27μm [.000050in] thick gold in localized area and 3.81μm [.000150in] minim         Durability       Modular Jack –       750 mating cycles         110 Blocks –       200 termination cycles         Packaging       406330 –       1 per box/5 boxes per carton, 9 lbs         406332 –       1 per box/5 boxes per carton, 13 lbs         406332 –       1 per box, 4.26 lbs         406981 –       1 per box, 5 boxes per carton, 8 lbs         Approvals –       UL Listed, File Number E81956		0						
Jack Contacts -       thick tin-lead in solder area over 1.27µm [.000050in] minimum thick nickel underplate.         Durability       Modular Jack -       750 mating cycles         110 Blocks -       200 termination cycles         Packaging       406330 -       1 per box/ 5 boxes per carton, 9 lbs         406331 -       1 per box/ 5 boxes per carton, 13 lbs         406332 -       1 per box, 4.26 lbs         406390 -       1 per box, 4.26 lbs         406981 -       1 per box/ 5 boxes per carton, 8 lbs         UL Listed, File Number E81956       UL Listed, File Number E81956	1	10 Blocks –						
Modular Jack –       750 mating cycles         110 Blocks –       200 termination cycles         Packaging       406330 –       1 per box/ 5 boxes per carton, 9 lbs         406331 –       1 per box/ 5 boxes per carton, 13 lbs         406332 –       1 per box, 4.26 lbs         406390 –       1 per box, 1 lbs         406981 –       1 per box/ 5 boxes per carton, 8 lbs	Jack	Contacts –						
110 Blocks -       200 termination cycles         Packaging       406330 -       1 per box/ 5 boxes per carton, 9 lbs         406331 -       1 per box/ 5 boxes per carton, 13 lbs         406332 -       1 per box, 4.26 lbs         406390 -       1 per box, 1 lbs         406981 -       1 per box/ 5 boxes per carton, 8 lbs         Approvals -       UL Listed, File Number E81956	Durability							
Packaging       406330 - 1 per box/ 5 boxes per carton, 9 lbs         406331 - 1 per box/ 5 boxes per carton, 13 lbs         406332 - 1 per box, 4.26 lbs         406390 - 1 per box, 1 lbs         406981 - 1 per box/ 5 boxes per carton, 8 lbs         Approvals -         UL Listed, File Number E81956         Image: Comparison of the state of	Mod	dular Jack –	750 mating cycles					
406330 -       1 per box/ 5 boxes per carton, 9 lbs         406331 -       1 per box/ 5 boxes per carton, 13 lbs         406332 -       1 per box, 4.26 lbs         406390 -       1 per box, 1 lbs         406981 -       1 per box/ 5 boxes per carton, 8 lbs	1	10 Blocks –	200 termination cycles					
406331 -       1 per box/ 5 boxes per carton, 13 lbs         406332 -       1 per box, 4.26 lbs         406390 -       1 per box, 1 lbs         406981 -       1 per box/ 5 boxes per carton, 8 lbs         UL Listed, File Number E81956	Packaging							
406332 –       1 per box, 4.26 lbs         406390 –       1 per box, 1 lbs         406981 –       1 per box/ 5 boxes per carton, 8 lbs         Approvals –       UL Listed, File Number E81956         COULS       COULS		406330 -	1 per box/ 5 boxes per carton, 9 lbs					
406390 –       1 per box, 1 lbs         406981 –       1 per box/ 5 boxes per carton, 8 lbs         Approvals –       UL Listed, File Number E81956         COULT       COULT								
406981 –       1 per box/ 5 boxes per carton, 8 lbs         Approvals –       UL Listed, File Number E81956         COULT       COULT								
Approvals – UL Listed, File Number E81956								
cUus		406981 –	1 per box/ 5 boxes per carton, 8 lbs					
	Approvals –		UL Listed, File Number E81956					
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Specifications subject to change without notice.

 In the U.S.A
 1-800-553-0938

 Canada
 905-475-6222

 Mexico
 525-729-0400

 South and Central Americas
 54-11-4733-2200

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