

Broadcast and Entertainment Products

14th Edition





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Introduction

The ADC Difference

For more than 50 years, ADC has led the industry as a premier developer of audio, video, and data patching products. This tradition continues today in our state-of-the-art manufacturing facilities, where virtually all of our own components are designed, engineered and manufactured.

All of ADC's products are designed for outstanding performance in demanding, real world situations. Our engineers understand the many different applications that are possible in the industry, and as a result, they create products that can solve difficult problems other manufacturers tend to overlook.



**View onto screw-machine area at
Shakopee, MN facility**

Once you've found the ADC product that fits your needs, requesting it is simple with our easy-to-follow ordering information charts. The charts display all available options, and you simply select the catalog number for the specific product and feature set you want. If you don't see the specific configuration you need, contact ADC for information about custom designed products. Our Technical Assistance Center (TAC) is available 24 hours a day, seven days a week.

For an even faster and more convenient source of additional information about ADC's high-quality products, visit www.adc.com. From our website, you can search for a desired catalog number, or browse our online products and services area for specific part numbers.



ADC's state-of-the-art facility in Shakopee, MN

From durable patchbays and jackfields to precision jacks and connectors, consistent quality is the hallmark of everything ADC produces. Everything at ADC is built to last, from the corrosion-resistant nickel plating on our patch plugs, to the tough steel chassis of our patch panels. ADC anticipates common failure points and overcomes them using the best available materials. Our strict adherence to quality standards and careful manufacturing assures dependable, long-lasting products.





Introduction

Products to meet your needs...

ADC continues to lead in innovative patching and connector products. As a result of listening to our customers, the following new and exciting products have been developed to enhance the performance and durability of your broadcast infrastructure:

ProPatch® Miniature (PPM) Series Patching System

The ProPatch® Miniature (PPM) Series is an all new Super High-Density Coax (SHDC) patching system designed for High Definition (HD), SDI, AES audio, 5.1 and 7.1 audio applications where coax medium is preferred but space is at a premium. The system is available in both 1 and 1.5 rack unit configurations.



The 1 rack unit panel features a patent-pending pullout designation strip that dramatically increases space for text, and a high-density 2x48 circuit configuration of ports. The 1.5 rack unit panel features 4x48 ports.

ProPatch® Programmable (PPP) Series Patching System

The ultimate audio patch panel is now a reality. The new ProPatch® Programmable patching system (patent number 6,875,060) combines the ruggedness and reliability of true WECO-compliant



jacks with a precision DIP switch, enabling users to change normalling and grounds quickly and easily. Specifically designed for tough mobile environments, the ultra-lightweight ProPatch Programmable panel weighs about six pounds and is only five-inches deep. It is available in both bantam and longframe styles. The ProPatch® Programmable modular system offers unprecedented reliability and flexibility in a convenient, space-saving size and lightweight package. Specifically engineered for everyday use in demanding mobile trucks, the ProPatch Programmable system is the only product in its class that passes stringent MIL-STD-202F standards for vibration and environmental requirements.



Introduction

Products to meet your needs...

UniPatch® GigE Patching System

ADC has designed a professional broadcast-quality Gigabit (1000 baseT) patching system for demanding professional environments where frequent patching and higher density is required. The system features a high-density 32-port normal-through card frame system to ADC Direct-Edge LSA-PLUS® termination system. Now you can patch Ethernet data properly using reliable durable military-grade jacks rated for 30,000 insertion/withdrawal cycles. The Cat 6 rated patch cords are keyed to ensure proper patching.



ProPatch® Fiber (PPF) Series Patching System

ADC leads the fiber patching market with the ProPatch® Fiber (PPF) patching system, the industry's first true broadcast fiber solution. ADC's ProPatch® Fiber (PPF) Patching system is designed by broadcast professionals for broadcast professionals. ADC combines its proven innovation and quality in broadcast patching design and manufacturing with its industry leading proficiency in fiber connectivity. The result is a true broadcast fiber connectivity product offering. PPF is a compliment to the proven copper connectivity product line. Solutions range from Fiber Bulkhead Panels (FL2000 Series) and Fiber Management Trays (FMT Series) to High-Density Patching Solutions (OMX600® Series). The portfolio also includes Specialty Fiber Optic Cable, Fiber Cable Management Solutions (FiberGuide® and RiserGuide), Patch Cords and Accessories in all popular connector styles.



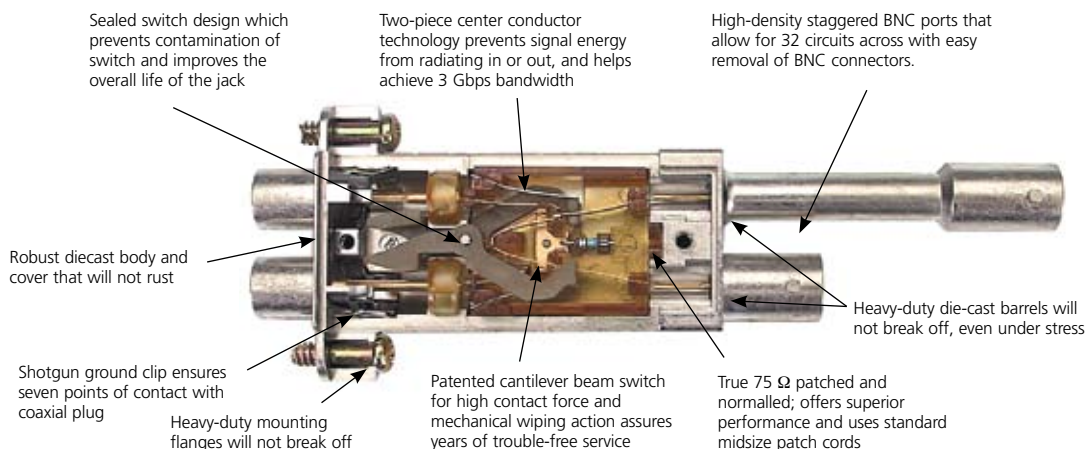


Introduction

Video Patching

ADC video jacks are the industry's preferred and premier jacks. Mechanical reliability and superior electrical performance make the ADC jackfields the highest quality patching solution in the market. ADC connectivity solutions, such as the MVJ and ADC BNC, are the patching solutions of choice for 1080p High Definition (SMPTE 424M) installations worldwide.

True 75 Ω jacks for today's high bandwidth services.



MVJ-3 Midsize Super Video Jack Interior View

Features

- True 75 Ω for excellent digital performance when normalled or patched with ADC high-performance patch cords
- Gold-plated components assure signal quality and tarnish resistance, minimum 50 μ inch
- Sealed switch prevents external contamination
- All-solderless construction eliminates solder-related failures
- Long-beam bifurcated springs provide firm contact and prevent spring fatigue
- Closed-entry BNC center conductor prevents damage and provides reliable contact
- Two-piece center conductor prevents RFI radiation leakage
- Shotgun ground clip contacts plug at multiple points
- Tough diecast body will not rust or flex
- Captive mounting screws will not fall out
- Precision-tooled parts for consistent quality
- Meet MIL-STD-202F for environmental and mechanical reliability
- Patch plug never touches normal switch, dramatically increasing reliability



Midsize Video Jack
(MVJ-3/MVJ-3T)



Standard Size Super Video Jack
(SVJ-2/SVJ-2T)



Introduction

Video Patching

Video Jacks	Designation	Catalog Number	Standard	Application	Normalised	Terminated (75 Ω)	Jacks per Row	Panel Type*	Panel Color	Page
	MVJ	MVJ-3	WECO Midsize	Analog, Serial Digital, HDTV, SMPTE 424M, 1080p	Yes	No	32	PPE/PPi	Black/Gray	19
	MVJT	MVJ-3T	WECO Midsize	Analog, Serial Digital, HDTV, SMPTE 424M, 1080p	Yes	Yes	32	PPE/PPi	Black/Gray	19
	CJM	CJ3014N/CJ4014N	WECO Midsize	Analog, Serial Digital, HDTV, L-Band, S-Band	No	No	32	PPE/PPi	Black/Gray	22
	CJMT	CJ3014N-75/CJ4014N-75	WECO Midsize	Analog, Serial Digital, HDTV, L-Band, S-Band	No	Yes	32	PPE/PPi	Black/Gray	22
	SVJ	SVJ-2	WECO Standard Size	Analog, Serial Digital, HDTV, SMPTE 424M, 1080p	Yes	No	24/26	PPE/PPi	Black/Gray	24
	SVJT	SVJ-2T	WECO Standard Size	Analog, Serial Digital, HDTV, SMPTE 424M, 1080p	Yes	Yes	24/26	PPE/PPi	Black/Gray	24
	CJ	CJ2014N	WECO Standard Size	Analog, Serial Digital, L-Band, S-Band HDTV, SMPTE 424M, 1080p	No	No	24/26	PPE/PPi	Black/Gray	27
	CJT	CJ2014N-75	WECO Standard Size	Analog, Serial Digital, L-Band, S-Band HDTV, SMPTE 424M, 1080p	No	Yes	24/26	PPE/PPi	Black/Gray	27
	SMJ	SMJ-2100N	MUSA Standard	Analog, Serial Digital, L-Band, S-Band HDTV, SMPTE 424M, 1080p	No	No	24/26	PPE/PPi	Black/Gray	29
	N	SJ2000	WECO Standard Size	AES Audio, Analog	Yes	No	24/26	PPE/PPi	Black/Gray	27
	75N	SJ2000N-75	WECO Standard Size	AES Audio, Analog	Yes	Yes	24/26	PPE/PPi	Black/Gray	27
	SHDC-LCC-HP	SHDC-LCC-HP	High Density Coax LCC	Analog, Serial Digital, HDTV, SMPTE 424M, 1080p	Yes	Configurable	48	PPM	Black	14
	SHDC-LCC-NN	SHDC-LCC-NN	High Density Coax LCC	Analog, Serial Digital, L-Band, S-Band HDTV, SMPTE 424M, 1080p	No	No	48	PPM	Black	14
	SHDC-LCC	SHDC-LCC	High Density Coax LCC	AES Audio, Analog	Yes	Configurable	48	PPM	Black	14
	SHDC-1023-HP	SHDC-1023-HP	High Density Coax 1.0/2.3	Analog, Serial digital, HDTV	Yes	Configurable	48	PPM	Black	14
	SHDC-1023-NN	SHDC-1023-NN	High Density Coax 1.0/2.3	Analog, Serial digital, HDTV, L-Band, S-Band	No	No	48	PPM	Black	14
	SHDC-1023	SHDC-1023	High Density Coax 1.0/2.3	AES Audio, Analog	Yes	Configurable	48	PPM	Black	14

* All panes are 19" wide

(PPI) ProPatch Integrated – Integrated Cable Bar (PPE) ProPatch Economical – No Cable Bar (PPM) ProPatch Miniature



Introduction

Audio Patching

Legendary Jacks

When it comes to audio and video jack design, ADC makes them perform better, last longer and connect more reliably than anyone else. Our jacks and all of their working components are designed and manufactured in our own facilities under the strictest quality control. Every jack is identical and exceptional in quality and performance.

Audio Jacks

ADC audio jacks are built to perform and to last.



Longframe Audio Jack

(Exclusively used in prewired ADC ProPatch® Audio)



Bantam Audio Jack

(Shown with plug inserted)

Features

- All ADC jacks are WECCO-standard and military grade
- Reliable WECCO Alloy #1 gold self-cleaning crossbar contacts wipe away debris with each use
- Solder-free wire-wrap tails prevent intermittents from cold solder joints or flux migration (prewired only)
- Solder-style jacks provide the option of do-it-yourself installation
- Tested to withstand tough applications, including vibration, temperature, moisture, and salt air corrosion
- Extended spring beams, computer-torqued screws, and precision-molded insulators ensure consistent quality, long life, and reliability
- Durable precision diecast (bantam) or stamped steel (longframe) frames

Audio Panels

	Description	Panel Type*	Standard	Normalling	Application	Jacks per Row	Page
	ProPatch® Programmable	PPP	Longframe	Programmable jacks, Factory Pre-Configured	Analog/Digital	24/32	51
		PPP	Bantam	Programmable jacks, Factory Pre-Configured	Analog/Digital	48	51
	ProPatch® Professional	PPA	Longframe	Factory Configured	Analog/Digital	24/26	58
		PPB	Bantam	Factory Configured	Analog/Digital	48	58
	ProPatch® Umbilical	BJF1 BJF2	Longframe	Factory Configured, with Umbilical	Analog/Digital	24/26	65
		BJF3 BJF4	Bantam	Factory Configured with Umbilical	Analog/Digital	48	65
	ProPatch® Lite	PPA	Longframe	Solder	Analog/Digital	24/26	69
		PPB	Bantam	Solder	Analog/Digital	48	69

* All panels are 19" wide and black

Understanding Audio Normalling

Normalling creates a default circuit through the patch panel to connect equipment together in the arrangement you normally or most frequently use. When you plug in a patch cord, you break this "normal" circuit and create a temporary new circuit. ProPatch® lets you select from a variety of normalling options.

Programmable Normals (ProPatch® Programmable and UniPatch® only)

Selectable normals allow the user to select any typical normal configuration by setting switches on an impedance-matched dip switch located on the individual audio card.

Normals Strapped (fully normalised)

In a fully normalised configuration, the normals of each jack in the top row are internally strapped to the normals of the jack below it with the tip (T), ring (R), and sleeve (S) contacts brought out to the rear panel terminations. At the rear panel, equipment is wired to the two jacks, creating a normal circuit. To break this normal connection, you insert a patch cord into either jack.

Half-Normalised

In a half-normalised configuration, the normals of the bottom jack are internally wired to the tip (T) and ring (R) connections of the top jack, and the tip, ring, and sleeve of both jacks are brought out to the rear terminations. Equipment is wired to the two jacks at the rear terminations, creating a normal circuit. Inserting a plug into the top jack monitors the circuit without breaking it, and inserting a plug into the bottom jack breaks the circuit.

No Normals

A panel without normals has jacks that are open (no normal connection) until patched. When the patch cord is inserted, the signal flows through the cord and jack to or from the equipment connected to the jack at the rear terminations. No normal patch panels require looping plugs (u-links) or patch cords to complete the circuit.

Normals Out

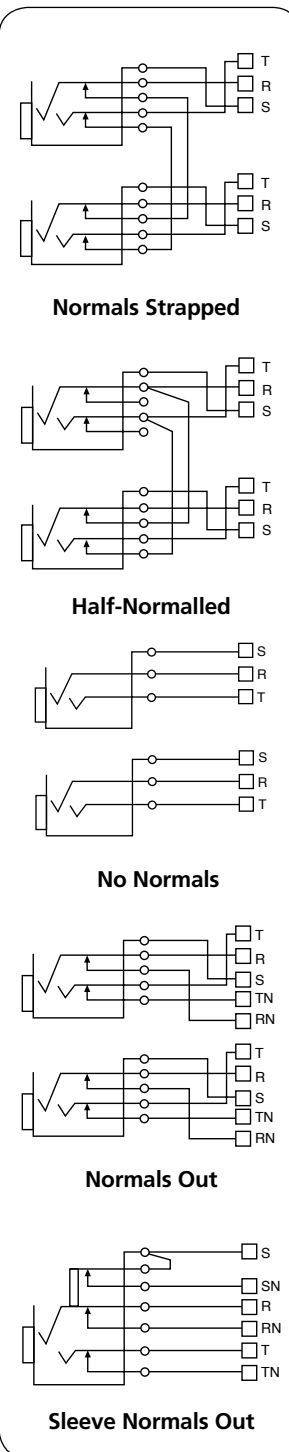
In this configuration normals are brought out to the rear terminations where you can strap them as you want them. Note that you cannot change the normalling on panels with internal normals because normalling is done at the jacks. Select the normals out option if you need the ability to change normals.

Sleeve Normals Out

Sleeve normals out are the same as normals out except that a sleeve normal is switched inside the jack in addition to tip and ring normals. The sleeve normal is also brought out and is typically used for a ground connection. Making it switchable allows grounds for different functions to be separated to prevent ground loops that produce audio hum.

Bussed Grounds

In a bussed-grounds configuration the ground connections of all jacks are brought out to the rear terminations and connected together. This provides a common ground for all jacks.





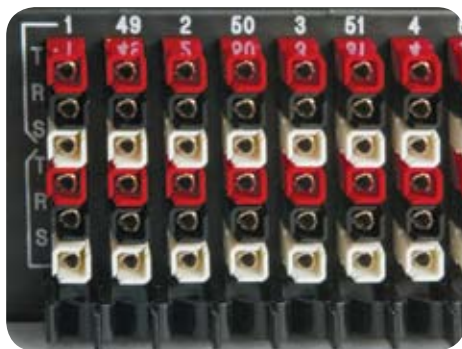
Introduction

Termination Systems

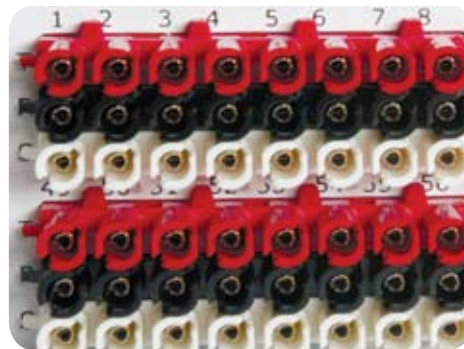
Quick Connect Punch (QCP)

The original twisted pair QCP termination system set a new standard, making punchdown wiring fast and reliable. The QCP IV system is an even faster, more robust punchdown system compatible with existing QCP tools. The new connectors come in 1x8 blocks insulated on both sides of the panel for better short protection. Because the connectors do not require the tool to be oriented before punching, the QCP IV system punches down instantly, saving you the laborious prewiring, soldering, and crimping required for connectorized panels.

Many ADC products come with a choice of QCP II or QCP IV. Both are a tremendous improvement over solder or crimped connectorized systems, but each has its advantages. QCP II allows greater density and individual replacement. QCP IV is a more durable connector and does not require orienting the tool before punching.



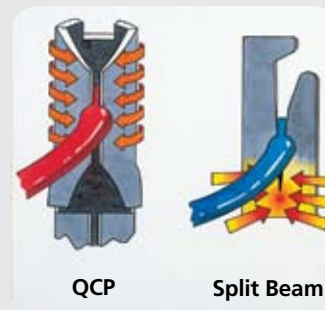
QCP II



QCP IV

Features

- ADC's exclusive, patented QCP II and QCP IV split-cylinder punchdown termination system is faster and easier to install and more reliable than any other termination system, including solder.
- Dependable, durable, split-cylinder design holds up to three stranded or solid wires, 22 to 26 gauge (0.32 mm to 0.128 mm)
- No intermittents with gastight connections. Uniform split channel width holds each wire firmly, unlike telco punchdowns with V-shaped channels or soldered connections that use flux and may have unreliable solder joints
- Easy pre-lacing makes installation faster. Color-coding prevents wiring mistakes
- Labor-saving punch terminates and cuts wire in one simple motion. New QCP IV installs even faster because you don't have to orient the tool before punching
- Faster and easier changes in circuits or normals than soldered connector systems. Rated for up to 200 insertion/withdrawal cycles
- QCP II terminations are individually mounted and insulated for easy repair or replacement
- QCP IV terminations are mounted in 1x8 blocks insulated on both sides of the panel. This design, plus the recessed conductors, eliminates shorts



QCP

Split Beam



Introduction

Termination Systems

LSA-PLUS®

LSA-PLUS technology has been used in billions of connections worldwide, and continues to set the pace for others to follow.

- Accepts 26-22 AWG insulated conductors
- Accepts solid or stranded insulated conductors
- Accepts two insulated conductors of the same type (solid or stranded) and size (26-22 AWG)
- Can be re-terminated 200 or more times



LSA-PLUS

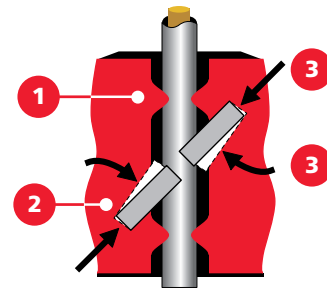


ADC leaves more wire between contact points; provides a more reliable stress resistant connection.



Typical primary wire after being punched into a 110 IDC; positioning contacts at a 90-degree angle results in a weak connection, which is prone to breakage.

LSA-PLUS IDC vs. 110 and 66 Block IDCs



Silver-plated angled contacts are the most secure available, anywhere.

- 1** Insulation clamping ribs hold the wire securely—isolating the contact area from vibration and mechanical stress.
- 2** Silver-plated contact tags at 45-degree angles across the wire's axis make a solid, gas-tight connection.
- 3** Axial and torsional restoring forces make a solid, gas-tight connection.

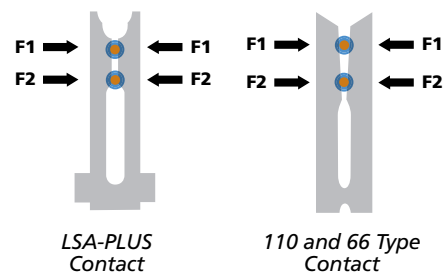
Features

LSA-PLUS Contacts

- Split beam technology
- $(F1=F2)$ = no movement
- Balancing of forces eliminates the tendency for a conductor to be forced out of the contact over time

110 and 66 Type Contacts

- Wedge technology
- $(F2>F1)$ = wire movement
- Unequal forces at top and bottom cause conductor movement over time



ProPatch® Video Patching Systems



- Super High-Density Coax Patching
 - ProPatch® Miniature (PPM) Series 12
- WECO and MUSA Patching
 - Jacks..... 19
 - ProPatch® Integrated (PPI) Series 34
 - ProPatch® Economical (PPE) Series..... 38
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 - Coax Patch Cords 44



Video Patching Systems

ProPatch® Miniature (PPM) Series



Super High-Density Coax Patching System

The ProPatch® Miniature (PPM) Series is an all new Super High-Density Coax (SHDC) patching system designed for High Definition (HD), SDI, AES audio, 5.1 and 7.1 audio applications where coax medium is preferred but space is at a premium. The system is available in both 1 and 1.5 rack unit configurations. The 1 rack unit panel features a patent-pending pullout designation strip that dramatically increases space for text, and a high-density 2x48 circuit configuration of ports. The 1.5 rack unit panel features 4x48 ports.

The new SHDC jack features a unique patent-pending switchable termination system that allows the user to select terminating and non-terminating 75 Ω functions on each circuit pair. The normal-through system is also available in a straight-through configuration for tie-line panels and applications where normals are not required. The SHDC high-performance normalling and straight-through LCC jacks are rated to SMPTE 424M HD standard. The SHDC AES jacks are rated for AES digital audio and analog video transmission. Both versions feature modular screwless mounting, circuit identification icons on the rear of the jack, 10,000 insertion/withdrawal cycles and are fully qualified to MIL-STD 202 for the ultimate in durability.

The system features two options. ADC's patented push-pull LCC connector technology on the backplane, or standard 1.0/2.3 connectors and ADC's patented LCC and LCP connectors terminate like a BNC using standard tooling.



Video Patching Systems

ProPatch® Miniature (PPM) Series

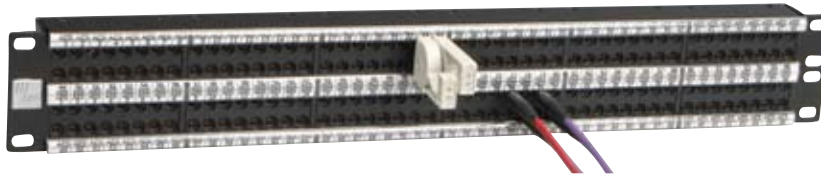
1 Rack Unit Super High-Density Coax Patch Panel



Features:

- High-density: 48 total jacks (2x48)
- Large designation strips: .440" wide designation on top and bottom; plus a 1" slide out designation
- Lightweight: Less than 1 Kg (2 lbs) total panel weight

1.5 Rack Unit Super High-Density Coax Patch Panel



Features:

- High-density: 96 total jacks (4x48)
- Large designation strips: .440" wide middle designation, .289" on top and bottom
- Lightweight: Less than 1.8 Kg (3.8 lbs) total panel weight



Video Patching Systems

ProPatch® Miniature (PPM) Series

1.5 Rack Unit Super High-Density Coax Patch Panel



Features:

- High-density: 48 total jacks (2x48)
- Large designation strips: .680" designation on top and bottom
- Lightweight: Less than 1.4 Kg (3 lbs) total panel weight

SHDC Jack

Features:

- Switchable between terminating and non-terminating normalled-through
- Non-normalled jack offered in same jack housing, looping plug available for circuit patching

	Normalling AES	Straight-Through HD	Normalling HD
LCC	SHDC-LCC	SHDC-LCC-NN	SHDC-LCC-HP
1.0/2.3	SHDC-1023	SHDC-1023-NN	SHDC-1023-HP



Video Patching Systems

ProPatch® Miniature (PPM) Series

Specifications

ELECTRICAL

Characteristic impedance:	75 Ω
Voltage rating:	600 Volts RMS
Bandwidth	
HD LCC:	Up to 3 GHz
HD 1.0/2.3:	Up to 1.0 GHz
Straight-through LCC:	Up to 3 GHz
Straight-through 1.0/2.3:	Up to 1.0 GHz
AES:	Up to 500 MHz
Contact resistance:	.030 Ω max change post environmental
Insulation resistance:	200 M Ω min change

MECHANICAL

Mechanical durability:	10,000 cycles min (Front port: LCP) 500 cycles min (Back port: LCC)
Center contact retention:	6 lbs min
SHDC jack panel retention:	20 lbs min
Patch cord cable bend and twist:	500 cycles min

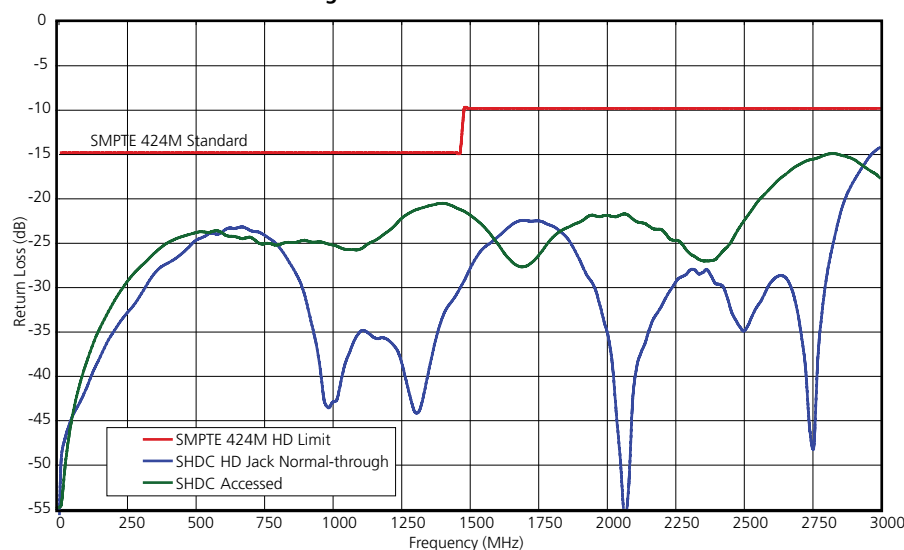
ENVIRONMENTAL

Thermal shock:	-40°C to 65°C, operating; -55°C to 85°C, non-operating
Moisture resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (salt spray):	MIL-STD-202 Method 101, test condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 201
Solvent resistance:	MIL-STD-202 Method 215

FINISH

Sheet metal panel:	.060 CRS with protective black finish
Jack plastic housing:	30% Glass Filled Valox
Nickel coax housings:	Tarnish-resistant electroless nickel plating
Springs:	Beryllium copper with 50 millionths inch gold plating
Center conductors:	50 millionths inch gold plating

Gated Return Loss
High-Performance SHDC LCC Jack





Video Patching Systems

ProPatch® Miniature (PPM) Series

Ordering Information

Description					Catalog Number
ProPatch® Miniature (PPM) Panels					
2x48	1 RU	LCC	Normalling	AES and Analog Video	PPM1248-LCC-BK
				High-Performance, HD	PPM1248-LCCHP-BK
		1.0/2.3 jack	Normalling	High-Performance	PPM1248-LCCNN-BK
				AES and Analog Video	PPM1248-1023-BK
			Non-Normalling	High-Performance, HD	PPM1248-1023HP-BK
				High-Performance	PPM1248-1023NN-BK
	1.5 RU	LCC	Normalling	AES and Analog Video	PPM15248-LCC-BK
				High-Performance	PPM15248-LCCHP-BK
		1.0/2.3 jack	Normalling	High-Performance	PPM15248-LCCNN-BK
				AES and Analog Video	PPM15248-1023-BK
			Non-Normalling	High-Performance, HD	PPM15248-1023HP-BK
				High-Performance	PPM15248-1023NN-BK
4x48	1.5 RU	LCC	Normalling	AES and Analog Video	PPM15448-LCC-BK
				High-Performance	PPM15448-LCCHP-BK
		1.0/2.3 jack	Normalling	High-Performance	PPM15448-LCCNN-BK
				AES and Analog Video	PPM15448-1023-BK
			Non-Normalling	High-Performance, HD	PPM15448-1023HP-BK
				High-Performance	PPM15448-1023NN-BK



1 RU 2x48 PPM Panel



1.5 RU 2x48 PPM Panel



1.5 RU 4x48 PPM Panel

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Video Patching Systems

ProPatch® Miniature (PPM) Series

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LCC Jack

Ordering Information

Description			Catalog Number
Super High-Density Coax Jacks			
LCC	Normalling	AES and Analog Video	SHDC-LCC
		High-Performance, HD	SHDC-LCC-HP
	Straight-Through	High-Performance, HD	SHDC-LCC-NN
1.0/2.3 Connectors	Normalling	AES and Analog Video	SHDC-1023
		High-Performance	SHDC-1023-HP
	Straight-Through	High-Performance	SHDC-1023-NN



LCP Patch Cords

Ordering Information

Description	Catalog Number
LCP High-Performance Patch Cords	
2 feet	BK2VXM-LCP-LCP
3 feet	BK3VXM-LCP-LCP
4 feet	BK4VXM-LCP-LCP
6 feet	BK6VXM-LCP-LCP



LCP Looping Plug

Ordering Information

Description	Catalog Number
Looping plug; LCP .48" Centers	LP-SHDC-480

Video



Video Patching Systems

ProPatch® Miniature (PPM) Series



LCC Connector



LCC Connectors Bulk Pack

Ordering Information

Description	Catalog Number			
	Cable Type (or equivalent to)			
	1505, 9259 9100, VPM2000	1855 VDM230 VDM250	0.6/2.8 Image360 SDV-25	179DT
LCC Connectors				
1 each	LCC-1-BE	LCC-13-BE	LCC-26-BE	LCC-31-BE
Bulk (100 pack)	LCC-1B-BE	LCC-13B-BE	LCC-26B-BE	LCC-31B-BE
Crimp Tools				
Features Ergonomic Handle for ADC Die Sets	WT-2			
Features Long Ergonomic Handle for ADC Die Sets	WT-3			
Crimp Die Sets	WD-1	WD-2	WD-3	WD-2
	WD-2		WD-4	
	WD-3			
	WD-5			
Manual Stripper Tool Includes One Stripper Replacement Cassette	STC-12B	STC-13B	STC-13B	STC-13B
Manual Stripper Replacement Cassette	CCS-BLK			
Automatic Cable Stripper Tool	BNC-S1			
Cutter Head For Automatic Cable Stripper Tool	BNC-H2	BNC-H5	BNC-H5	BNC-H5
Insertion/Withdrawal Tool	LCA-400004			
Replacement Tips For Insertion/Withdrawal Tool (12-Pack)	LCA-400005-12			
LCC Tester	LCA-414001			



Insertion/Withdrawal Tool

10/09 • 102117AE Broadcast and Entertainment Products

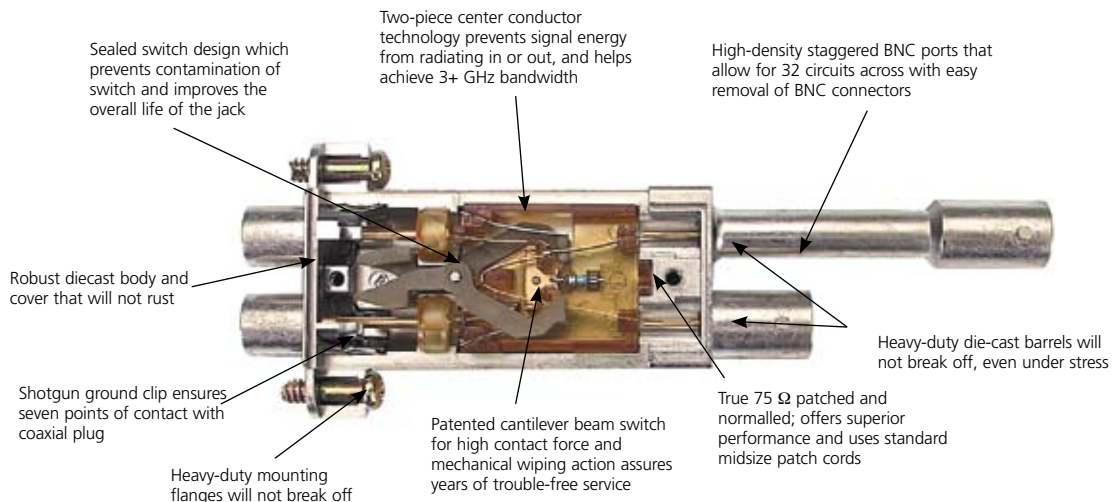


Video Patching Systems

Jacks

WECO HD Midsize Video Jacks

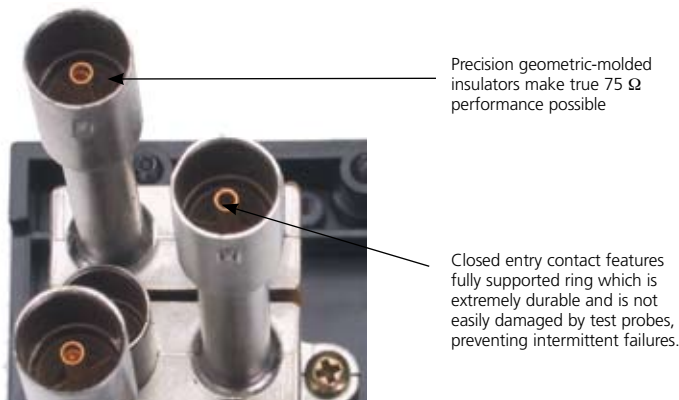
Midsize video jacks have several advantages over standard size jacks in performance and size. All standard size video jacks observing WECO standards are, by definition, not 75 Ω in the patched state (with the exception of ADC's SVJ-2 standard size Super Video Jack). The physical relationship of the center conductor diameter and the coaxial port diameter creates an impedance violation that causes the video impedance to drop to 58 Ω in the patched state. In midsize video jacks, the physical relationship has been optimized, providing a constant impedance of 75 Ω in either the normalled-through mode or the patched mode. This impedance advantage can make a considerable difference in the elimination of bit errors in digital signals especially if the circuit is routed through several patches. The midsize offers 33 percent higher density than standard size for 2x32 configurations, which match typical router decades.



MVJ-3 Midsize Video Jack Interior View

Outstanding Performance Features

ADC video jacks feature precision geometric-molded insulators for true 75 Ω performance. Closed-entry center contacts are designed to resist damage from damaged plugs or test probes.





Video Patching Systems

Jacks

WECO HD Midsize Video Jack MVJ-3

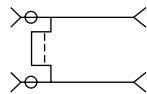
The MVJ-3 midsize to BNC self-normalling video jack is performance matched for data rates up to and including HDTV in the full uncompressed 1.485 and 3 Gbps rates. This premium jack includes a host of outstanding features highlighted in the interior view shown on the previous page.

Features

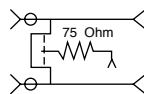
- 3.0+ GHz bandwidth
- Sealed switch
- 75 Ω performance
- RFI shielding
- 2x32 mounting in one rack space
- Unique captive mounting screws
- Meets MIL-STD-202F for environmental and mechanical reliability



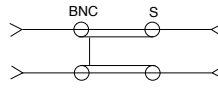
**MVJ-3 Terminated
MVJ-3T Non-terminated
MVJ-3NN Non-normalled,
non-terminated**



MVJ-3



MVJ-3T



MVJ-3NN

HD Midsize Video Jack



Video Patching Systems

Jacks

MVJ-3

WECO HD Midsize Video Jack Specifications

The MVJ-3 Family is rated to handle digital video data rates up to and including uncompressed HDTV SMPTE 292M 1.485 Gbps and SMPTE 424M 3 Gbps.

ELECTRICAL

Rated bandwidth:	1 MHz to 3 GHz
Return loss:	Better than -17 dB; 1 MHz to 3 GHz
Characteristic impedance:	75 Ω
Insertion loss:	0.3 dB Loss to 3 GHz
Center conductor Diameter:	0.048 (.12cm)
Contact resistance:	0.01 W maximum change
Termination resistor:	75 Ω , MVJ-3T only

MECHANICAL

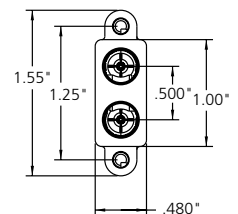
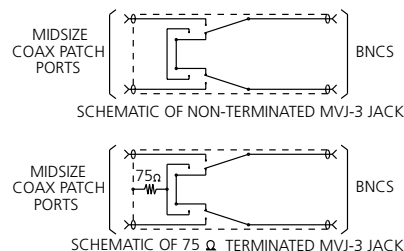
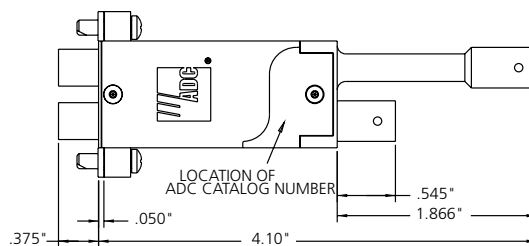
Mechanical shock:	Per MIL-STD-202, Method 213
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	7 lbs (3.17 Kg) maximum
Withdrawal force:	1 lb (.452 Kg) minimum
Life cycles:	20,000

MATERIAL

Body and cover:	Zinc alloy per ASTM B86
Front and rear center conductors:	Beryllium copper per ASTM B196
Insulators:	Unreinforced polyetherimide resin rated UL94-VO for flammability
Switching springs:	Beryllium copper per ASTM B196

ENVIRONMENTAL

Operating temperature:	-40°C to 65°C
Storage temperature:	-40°C to 65°C
Thermal shock:	Per MIL-STD-202, Method 107
Operating humidity:	0% to 95%, non-condensing
Storage humidity:	0% to 95%, non-condensing
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106
Dust resistance:	Per MIL-STD-202, Method 110



MVJ-3 Midsize Video Jack



Video Patching Systems

Jacks

WECO HD Midsize Straight-Through Video Jacks

For applications requiring independent ground such as tie line panels, the new straight-through CJ3014N and CJ4014N are the logical choice. These jacks have a rated bandwidth up to 2.4 GHz for analog, serial digital, and HDTV video applications. For applications requiring self-terminating jacks, the CJ3014N-75 and the CJ4014N-75 are available.

The short body CJ3014N/3014N-75 and long body CJ4014N/4014-N75 are designed to be mounted in 32-across configurations. The jacks slide into a patented insulated holder with a dovetail joint, which provides outstanding durability and electronic isolation from adjacent jacks. The short and long bodies allow a staggered mounting pattern to provide access to the BNC connectors. A BNC insertion tool such as the BT2000 is recommended for BNC installation.



CJ3014N-75/CJ4014N-75 Terminated

A patented "dovetail" mounting device provides electrical isolation and outstanding durability as compared to tab-and-barrel mounting systems.



CJ3014N/CJ4014N Non-terminated

Jacks shown partially assembled to reveal the dovetail joint.



Video Patching Systems

Jacks

WECO HD Midsize Straight-Through Video Jack Specifications

The CJ midsize jacks are rated to handle digital video data rates up to and including uncompressed HDTV SMPTE 292 M 1.485 Gbps. They are also rated for L-Band and S-Band use.

ELECTRICAL

Characteristic impedance:	75 Ω nominal
Return loss:	> 19 dB; 300 KHz to 2.4 GHz
Contact resistance:	10 m Ω typical
Termination resistance (3014N-75/4014N-75):	75 Ω commercial, 1/8 watt 5%

MECHANICAL

Mechanical shock:	Per MIL-STD-202, Method 213
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	7 lbs max
Withdrawal force:	1.5 lbs min

ENVIRONMENTAL

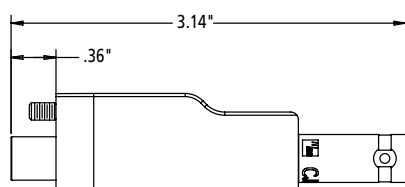
Operating temp:	-40°C to 65°C
Storage temp:	-55°C to 85°C
Thermal Shock:	Per MIL-STD-202, Method 107
Humidity:	0% to 95% non-condensing, operating and non-operating
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106

MATERIAL

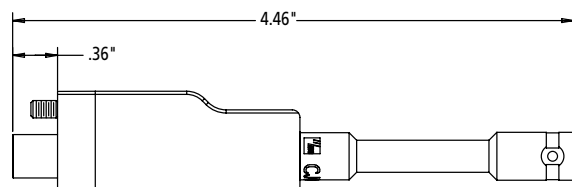
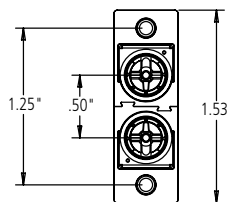
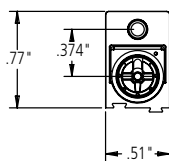
Jack sleeve and frame: per QQ-N-290	CDA 360 brass rod per ASTM B16 with electro-deposit nickel plating
Center conductors: per MIL-G-45204	Phosphor bronze per ASTM B139 with electro-deposited gold plating
Insulators:	TFE-Fluorocarbon per ASTM D1710

OTHER

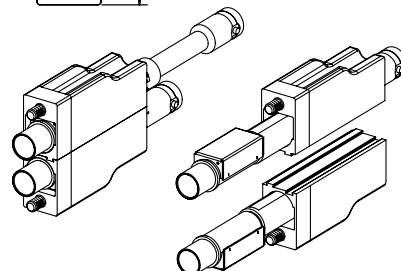
Interface dimensions: pin diameter of .048" (.12 cm)	Outside diameter of mating plugs must be .298" (.75 cm) with
Mounting details: (zinc chromate plated)	Jacks supplied with a 6-32 UNC-2A 5/16" Phillips head screws



CJ3014N and CJ3014N-75



CJ4014N and CJ4014N-75



Video Patching Systems

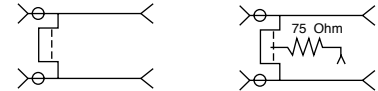
Jacks

WECO HD Standard Size Super Video Jacks

The SVJ-2 standard size to BNC self-normalling Super Video Jack family features performance matched for data rates up to and including HDTV in the full uncompressed 1.485 and 3 Gbits/second rate. The SVJ-2 combines the unique features of:

- 2.4 GHz bandwidth for the demanding HD data rates
- Sealed switch prevents internal contamination
- True 75 Ω performance for a zero bit-error rate
- RFI shielding prevents ingress/egress
- 2x26 or 2x24 mounting in one rack space
- Unique captive mounting screws

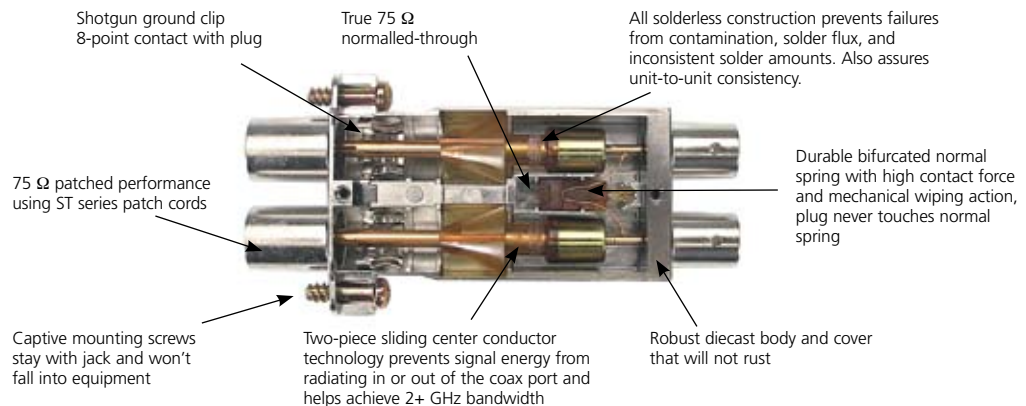
The SVJ-2 family is designed for use in high data rate applications including uncompressed HDTV, D1 digital video and all lower data rate video transmission methods.



Standard Size Super Video Jack
(SVJ-2/SVJ-2T)

Features

- True 75 Ω for excellent digital performance when normalled or patched with ADC ST series patch cords
- Gold-plated components assure signal quality and tarnish resistance, minimum 50 μ inch
- Sealed switch prevents external contamination
- All-solderless construction eliminates solder-related failures
- Long-beam bifurcated springs provide firm contact and prevent spring fatigue
- Closed-entry BNC center conductor prevents damage and provides reliable contact
- Two-piece center conductor prevents RFI radiation leakage
- Shotgun ground clip contacts plug at multiple points
- Tough diecast body will not rust or flex
- Captive mounting screws will not fall out
- Precision-tooled parts for consistent quality
- Meet MIL-STD-202F for environmental and mechanical reliability
- Patch plug never touches normal switch, dramatically increasing reliability



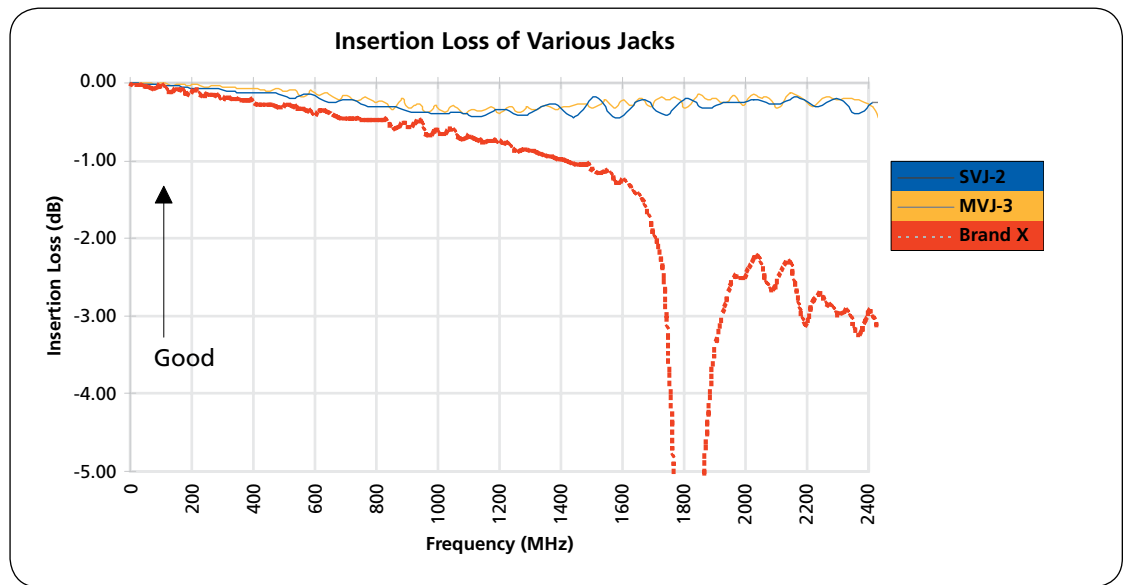
SVJ-2T
Standard Size Super Video Jack
(Interior View)



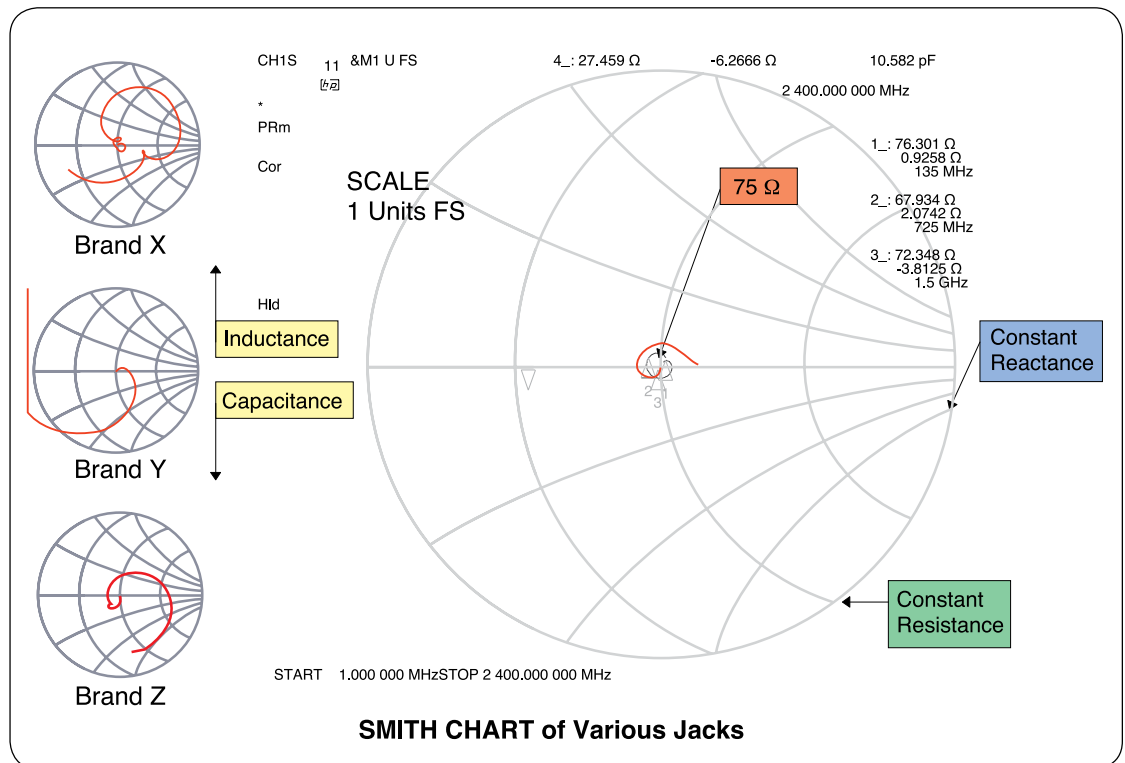
Video Patching Systems

Jacks

Insertion and SMITH Chart



Insertion loss for ADC's Super Video Jacks stays less than .5 dB to 2.4 GHz.



ADC's Super Video Jacks maintain 75 Ω impedance throughout the band.
Competitive jacks spiral out of control.

Video Patching Systems

Jacks

SVJ-2

Standard Size Super Video Jack Specifications

The SVJ-2 family is rated to handle digital video data rates up to and including uncompressed HDTV SMPTE 292M 1.485 Gbps and SMPTE 424M 3 Gbps.

ELECTRICAL

Rated bandwidth:	2.4 GHz
Return loss:	Better than -20 dB to 2.4 GHz
Characteristic impedance:	75 Ω
Insertion loss:	<.5 dB Loss to 2.4 GHz
Center conductor diameter:	Accepts .09 center conductor
Contact resistance:	Less than 20 m Ω
Termination resistor:	75 Ω , $\pm$ 1%

MECHANICAL

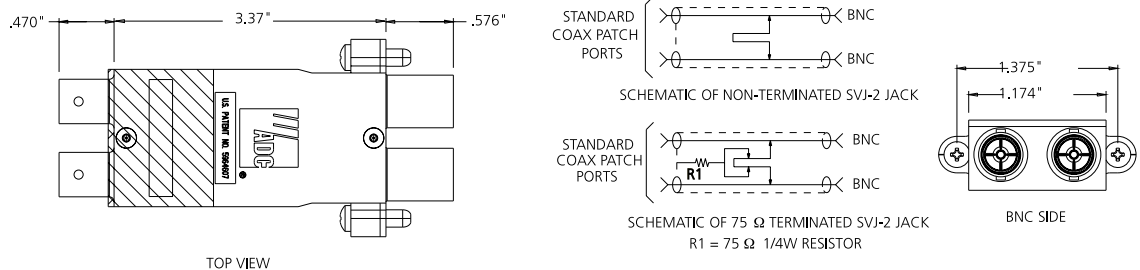
Mechanical shock:	Per MIL-STD-202, Method 213 test condition G
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	12 lbs max
Withdrawal force:	3 lbs min
Life cycles:	20,000 insertion/withdrawal cycles min

MATERIAL

Body and cover:	Zinc diecast per ASTM B86
Front and rear	
Center conductors:	Phosphor bronze per ASTM B139
Insulators:	Polyetherimide resin rated UL 94V-0
Switching springs:	Beryllium copper per ASTM B196

ENVIRONMENTAL

Temperature	
Operating:	-40°C to 65°C
Storage:	-55°C to 85°C
Thermal shock:	Per MIL-STD-202, Method 107
Humidity	
Operating:	0% to 95%, non-condensing
Storage:	0% to 95%, non-condensing
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106
Dust resistance:	Per MIL-STD-202, Method 110A



SVJ-2 Standard Size Super Video Jack

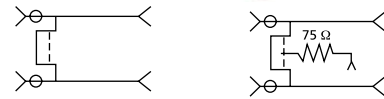


Video Patching Systems

Jacks

WECO Standard Size Analog/SD Video Jacks

For analog and serial digital video applications at 270/360 Mbits, ADC's venerable SJ2000 is a logical choice. With a frequency response to 750 MHz, the SJ2000 has proven improved reliability for systems that do not require the advanced performance of ADC's super jacks.

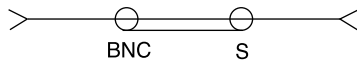


Standard Size Video Jack
(SJ2000/SJ2000N-75)

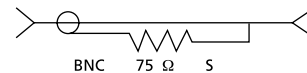
WECO Standard Size Straight-Through Video Jacks

For applications requiring independent ground such as tie line panels, the straight-through CJ2014N and the self-terminating CJ2020N-75 jacks are the logical choice. These jacks mount on standard .625" centers and have a rated bandwidth up to 2.4 GHz for analog HDTV, L-Band and S-Band applications.

NOTE: The single terminating jacks cannot be installed directly adjacent to switching jacks due to interference with the terminating resistor housing. Leave one empty space between the CJ2020N-75 and switching jacks.



Straight-Through Standard Size Video Jack
(CJ2014N)



**Straight-Through Standard Size Video Jack
with 75 Ω Termination**
(CJ2020N-75)

Video Patching Systems

Jacks

CJ2014N and CJ2020N-75 (terminated)

WECO Standard Size Straight-Through Video Jack Specifications

The CJ standard size jacks are rated to handle digital video data rates up to and including uncompressed HDTV 292M 1.485 Gbps and SMPTE 424M 3 Gbps. They are also rated for L-Band and S-Band use.

ELECTRICAL

Characteristic impedance:	62.5 Ω nominal
Return loss:	> -20 dB; 1 MHz to 2 GHz
Contact resistance:	0.030 Ω max change post environment

MECHANICAL

Mechanical shock:	Per MIL-STD-202, Method 213
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	7 lbs (3.17 kg) min
Withdrawal force:	1.5 lbs (0.675 kg) min
Life:	10,000 insertion/withdrawal cycles min

ENVIRONMENTAL

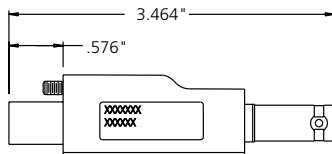
Operating temperature:	-40°C to +65°C
Non-operating temperature:	-55°C to +85°C non-operating
Thermal shock:	Per MIL-STD-202, Method 107
Humidity:	0% to 95% non-condensing, operating and non-operating
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106

MATERIAL

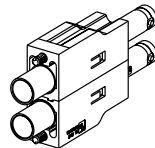
Jack sleeve and frame:	Brass per ASTM B16 with electro-deposited nickel plating per QQ-N-290 or electro-deposited gold plating per MIL-G-45204
Center conductors .090" (.23 cm):	Beryllium copper per QQ-C-533 with electro-deposited gold plating per MIL-G-45204 on contact areas only
Outer conductor contacts:	Phosphor bronze QQ-B-746 with electro-deposited gold plating per MIL-G-45204 or electro-deposited nickel plating per QQ-N-290
Insulators:	Rated UL 94V-0 for flammability
Crimping sleeves:	Brass per ASTM B16 with tin plating per MIL-T-10727

OTHER

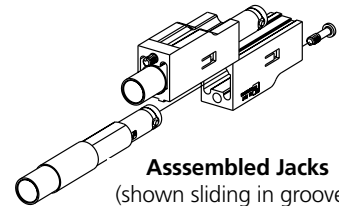
Interface dimensions:	Outer diameter of mating plugs must be .375" (.95 cm) with pin diameter of .090" (.23 cm) or .070" (.18 cm)
Mounting information:	All jacks are supplied with 6-32, 5/16" Phillips head screws



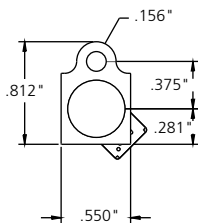
CJ2014N



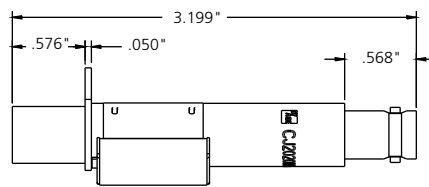
Assembled Jacks
(shown assembled)



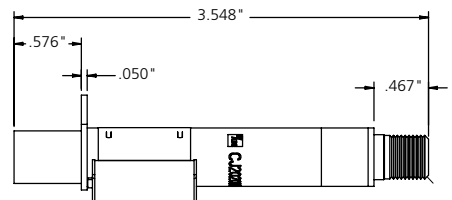
Assembled Jacks
(shown sliding in grooves)



CJ2020-N75
CJ2020-N75FF



Dimensions for CJ2020N-75 and CJ2011N
(CJ2011N has no termination can)



Dimensions for CJ2020-N75FF



Video Patching Systems

Jacks

MUSA Standard Video Jacks

ADC is the first company worldwide to offer both MUSA standard and WECO standard mid-sized and standard-sized coaxial video jacks offering a complete portfolio of MUSA standard panels and accessories including jacks, U-links, accessories, panels and patch cords. The new line of 75 Ω HDTV-ready coaxial jacks and accessories offers superior electrical and mechanical performance as well as easier mounting options compared with current industry products.

Jack Features

- HDTV Super Video Jacks rated to 2.3+ GHz
- Return loss of -17db at 2.3 GHz
- Insertion loss of -.07db to 2.3 GHz
- Jacks rated to 10,000 insertion/withdrawal cycles
- Patented dovetail mounting system provides secure and easy jack replacement
- Exclusive captivated mounting screw
- Molded jack holder provides outstanding durability and isolation between adjacent jacks
- Compatible with BPO MUSA standard products



MUSA U-Link
(UL-SM1625)



SMJ-2100N Jack

U-Link Features

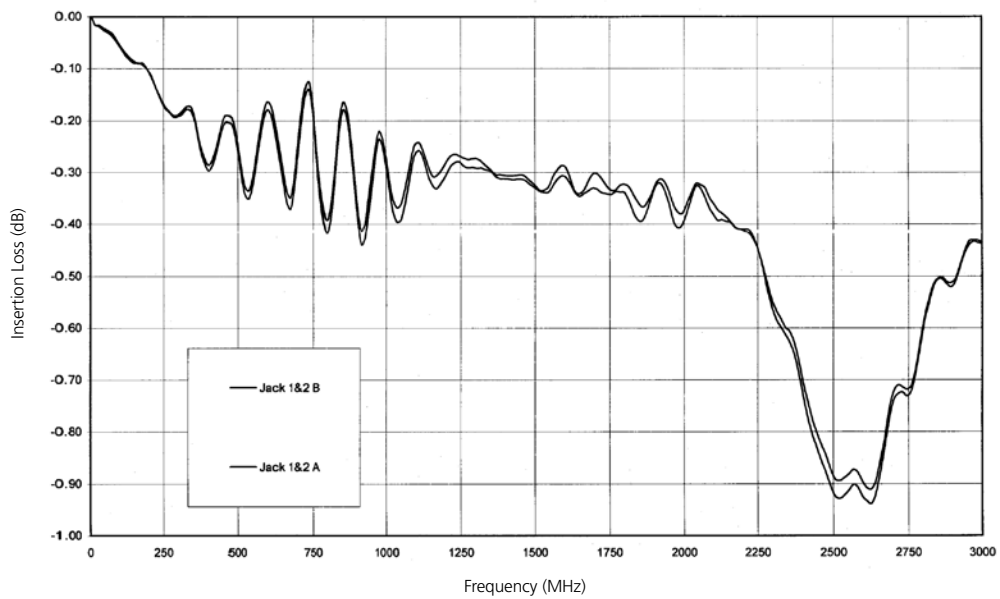
- Ergonomically designed handle makes insertion/withdrawal easier, hole for pull chain
- Solderless construction—Weee and Rohs compliant
- High-performance U-Link matched for uncompressed HDTV signals (1.485 Gbps)
- Precision-molded insulators for true impedance match and greater unit-to-unit consistency compared to machined plastic
- Unique closed-entry center conductor prevents damage and intermitance from misaligned male pins
- One-piece gold-plated center conductor
- Robust diecast body with insulated molded outer shell
- Transparent icon allows designation label underneath
- Plug-in color coded circuit icon available



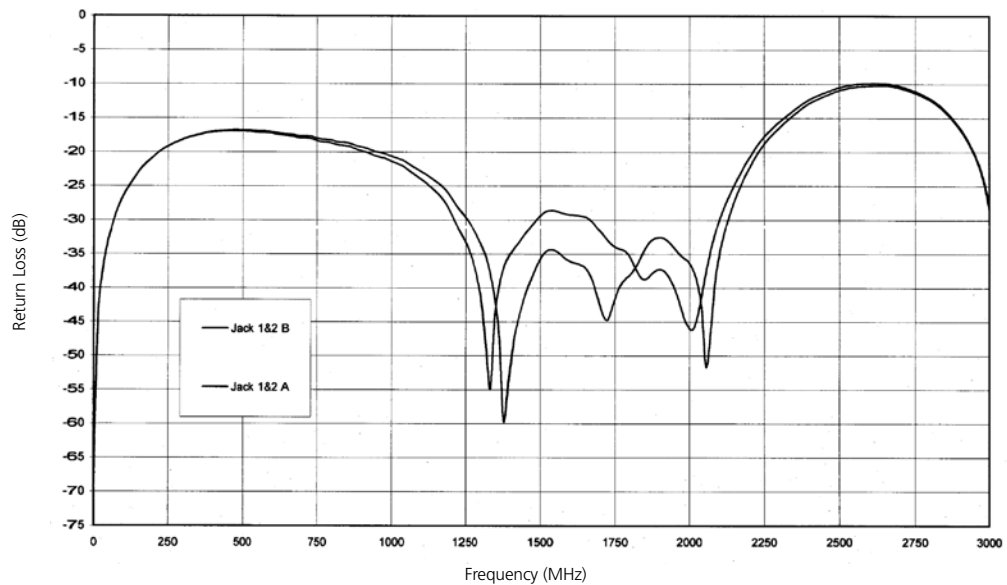
Video Patching Systems

Jacks

MUSA Standard Video Jacks Insertion and Return Loss



Insertion Loss
MUSA Video Connectors (SMJ-2100N) with Looping Plug



Return Loss
MUSA Video Connectors (SMJ-2100N) with Looping Plug



Video Patching Systems

Jacks

SMJ-2100N

MUSA Straight-Through Video Jack Specifications

The SMJ family is rated to handle analog and digital video data rates up to and including HDTV SMPTE 242M 1.485 Gbps and SMPTE 424M 3 Gbps. They are also rated for L-Band and S-Band use.

ELECTRICAL

Characteristic impedance:	75 Ω nominal
Return loss:	> 17 dB; 300 KHz to 2.4 GHz
Contact resistance:	10 m Ω typical

MECHANICAL

Mechanical shock:	Per MIL-STD-202, Method 213
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	7 lbs maximum
Withdrawal force:	1.5 lbs minimum

ENVIRONMENTAL

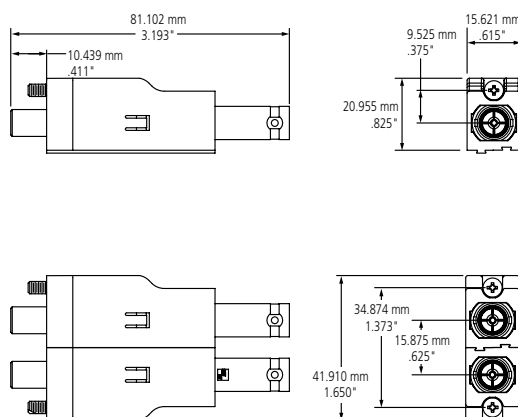
Operating temp:	-40°C to 65°C
Storage temp:	-55°C to 85°C
Thermal shock:	Per MIL-STD-202, Method 107
Humidity:	0% to 95% non-condensing, operating and non-operating
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106

MATERIAL

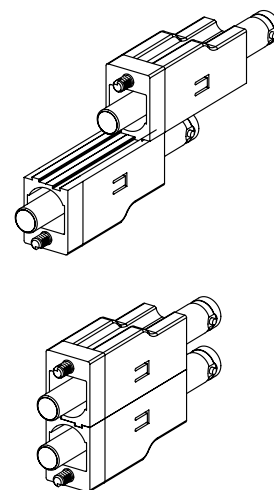
Jack sleeve and frame:	CDA 360 brass rod per ASTM B16 with electro-deposit nickel plating per QQ-N-290
Center conductors:	Phosphor bronze per ASTM B139 with electro-deposited gold plating per MIL-G-45204
Insulators:	Unreinforced polyetherimide resin rated UL94-V0 for flammability

OTHER

Interface dimensions:	Outside diameter of mating plugs must be .298" (.75 cm) with pin diameter of .048" (.12 cm)
Mounting details:	Jacks supplied with a 6-32 UNC-2A 5/16" Phillips head screws (zinc chromate plated)



SMJ-2100N





Video Patching Systems

Jacks and Accessories

Video

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Ordering Information

Description	Catalog Number
Midsized Video Jacks	
Dual self-normalizing video jack, non-terminated, HD	MVJ-3
Dual self-normalizing video jack, 75 Ω terminated, HD	MVJ-3T
Dual non-normalized video jack, non-terminated, HD	MVJ-3NN
Single straight-through video Jack, short body, non-terminated, HD	CJ3014N
Single straight-through video Jack, short body, 75 Ω terminated, HD	CJ3014N-75
Single straight-through video jack, long body, non-terminated, HD	CJ4014N
Single straight-through, video Jack, long body, 75 Ω terminated, HD	CJ4014N-75
Standard Size Super Video Jacks	
Dual self-normalizing super video jack, non-terminated, HD	SVJ-2-X
Dual self-normalizing super video jack, 75 Ω terminated, HD	SVJ-2T-X
Standard Size Video Jacks	
Single straight-through video jack, non-terminated, HD	CJ2014N
Single straight-through video jack, terminated, HD	CJ2020N-75
Single straight-through video jack, terminated with F connector, HD	CJ2020N-75F
Dual self-normalizing video jack, non-terminated, analog/SD	SJ2000N
Dual self-normalizing video jack, 75 Ω terminated, analog/SD	SJ2000N-75
MUSA Standard Video Jacks	
Single video jack, MUSA standard, HD	SMJ-2100N
Conversion Plugs and Adapters	
Standard size plug to BNC adapter	CP1051N
Standard size plug to BNC adapter, gold	CP1051G
Midsized plug to BNC adapter, short body	MBNC-3
Midsized plug to BNC adapter, long body	MBNC-3L
Standard size receptacle to midsized receptacle adapter	CAXADPT-1
Midsized plug to standard size receptacle adapter	CAXADPT-2
Standard size plug to midsized receptacle adapter	CAXADPT-3
Coax adapter MUSA plug to BNC	CAXADPT-MU/BNC
Coax adapter MUSA plug to standard receptacle	CAXADPT-MU/CPSTD
Coax adapter MUSA plug to midsized receptacle	CAXADPT-MU/CPMID



Standard Size Conversion Plug
(CP1051N)



Midsized Plug to BNC Adapter
(MBNC-3)



Standard to Midsized Conversion Adapter
(CAXADPT-1)



Midsized to Standard Conversion Plug
(CAXADPT-2)



Standard to Midsized Conversion Plug
(CAXADPT-3)



MUSA to BNC Adapter
(CAXADPT-MU/BNC)



MUSA to Midsized Adapter
(CAXADPT-MU/CPMID)



MUSA to Standard Size Adapter
(CAXADPT-MU/CPSTD)



Video Patching Systems

Jacks and Accessories

Ordering Information

Description	Catalog Number
Coaxial Patch Plugs	
Standard size solder plug for 734	PGS-100016
Standard size solder plug for RG59	CP1041N
Standard size solder plug for RG59 gold	CP1041G
Midsized solder plug for RG59	CP1540N
Midsized crimp plug for RG59	CP1540N-CRIMP
Midsized crimp plug for RG59, gold	CP1540G-CRIMP
Midsized solder plug for 735	PGS-100018
Standard size HD crimp plug for Belden 1505F	CP-1045
Midsized HD crimp plug for Belden 1505F	CP-1545
MUSA HD crimp plug and boot for Belden 1505F, bulk 50 units	CP-1-MU-B50
Termination and Looping Plugs	
Standard size 75 Ω termination plug, nickel	CPSTD-TP2
Midsized 75 Ω termination plug, nickel	CPMID-TP2
MUSA 75 Ω termination plug	MUSA-TP2
Standard size HD looping plug, nickel	LP-S1625
Midsized HD looping plug, nickel	LP-M1500
MUSA HD-U-link, nickel	UL-SM1625
Looping plug colored identification icon, 25 pack	ADCICBXX*
Circuit Guard Plugs, sold in bags of 25	
Standard size	CJP-S-X
Midsized	CJP-M-X
Humbucker Humbucking Coil	HUM-1

* XX Icon Colors:

01 Office White	06 Gray	11 Brown
02 Black	07 Snow White	12 Clear
03 Red	08 Orange	13 Putty White
04 Green	09 Yellow	
05 Blue	10 Purple	

Humbucker

Common mode hum caused by differences in ground potential is often found in long video cables, incoming and outgoing lines, and separate power distribution systems. The ADC Humbucker eliminates 99.6 percent of a 10 Volt p-p 50/60 Hz ground-induced hum in a 200-foot (61 m) RG59 coaxial cable run. The actual amount of hum reduction depends on cable length, cable type, ground loop potential, and ground loop frequency.



Midsized Plug
(CP1540N)



WECO Looping Plugs
(LP-S1625/LP-M1500)



MUSA U-Link
(UL-SM1625)



Humbucker
(HUM-1)



Video Patching Systems

ProPatch® Integrated (PPI) Series

ProPatch® PPI Series Panels are the ideal solution when you need a rugged, full-featured panel that will stand up to the most demanding professional applications. These tough, attractive panels feature a rugged epoxy powder-coated steel weldment chassis with a durable molded ABS jack insert. The panels feature rear silk screening for port identification and an adjustable rear cable support bar for superior strain relief, and ADC's exclusive snap-over designation system that prevents cards and windows from coming loose from the panel as is common with other systems. The durable steel frame ensures against bent, cracked or broken rack ears, and the molded ABS inserts prevent stripped screws and cracked inserts common with phenolic panel inserts. The molded inserts are also available in a variety of colors to help segregate signal types such as AES audio, SDI video and HD video within a common facility. Panels are available in black or gray. PPI series panels are covered by an industry-exclusive 15 year* warranty against defects.

*SVJ, MVJ, CJ, CJMID, and SMJ jacks

Features

- Tough professional construction
- Welded steel chassis with high-impact ABS plastic-molded inserts
- Adjustable steel strain relief cable bar with holes for cable ties
- Highest quality, widest bandwidth, longest lasting jacks available. True 75 Ω impedance
- Molded jack inserts come in a variety of colors and are much more durable than phenolic inserts; screws don't strip out
- Snap-on designation windows for labeling jacks
- All jack styles available
- 15 year warranty
- ProPatch® PPI series unloaded video panels come in 1 RU and 2 RU models. They feature a tough steel weldment chassis with molded ABS jack insert and a strong, adjustable steel cable support bar with holes for cable ties.
- Panels are available for standard size jacks in 2x24, 2x26, and 3x26 arrays. For midsize jacks, panels are available in 2x32 and 3x32 arrays. When ordering jacks, alternating short and long jacks to ease cabling.



Colored molded jack inserts available as an option



1 RU Midsize 2x32 Panel



1.5 RU Midsize 2x32 Panel



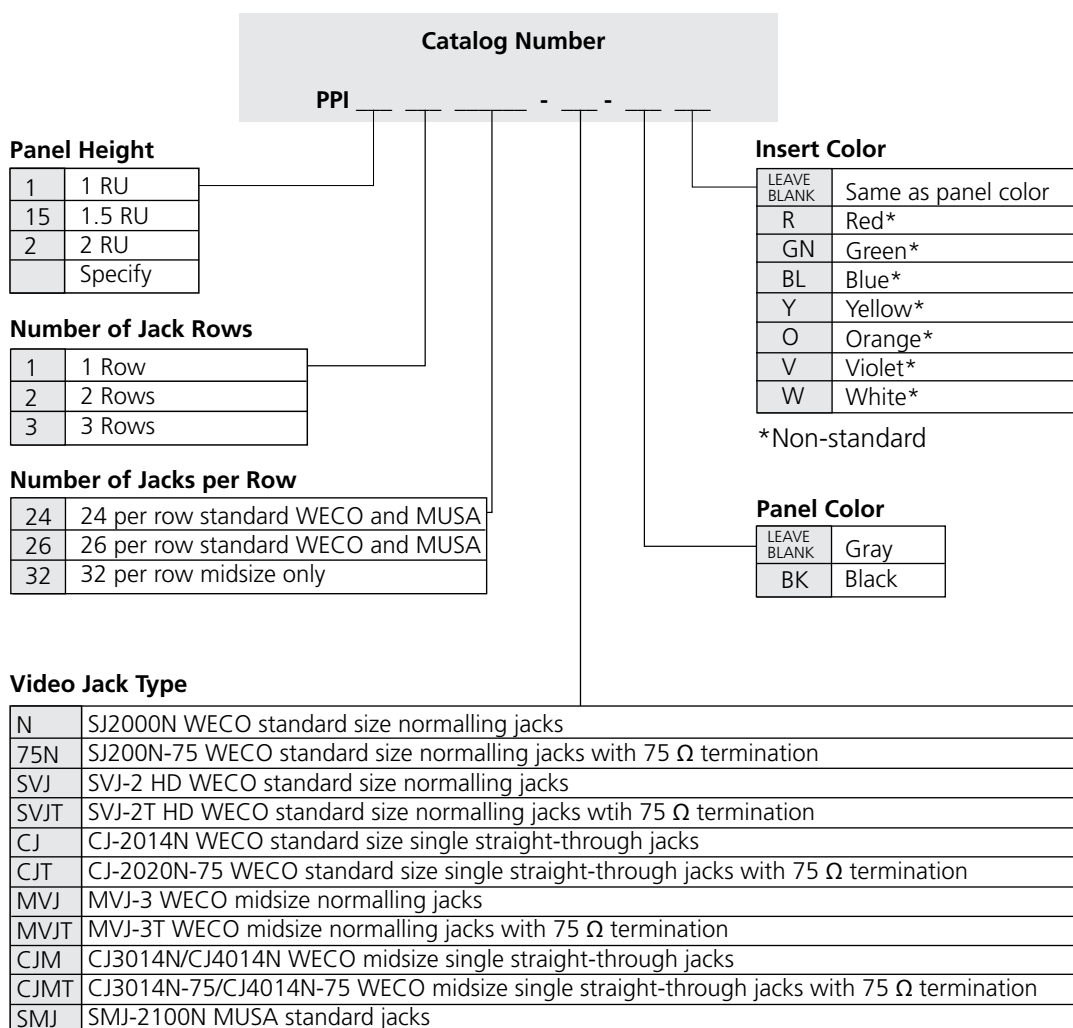
2 RU Midsize 2x32 Panel
(rear view)



Video Patching Systems

ProPatch® Integrated (PPI) Series

The information below explains the catalog numbers contained in the charts on this page and the next. Custom configurations are available; please contact ADC.



*For information on this and other custom configurations, please contact ADC.



Video Patching Systems

ProPatch® Integrated (PPI) Series

Ordering Information

Description					Catalog Number		
		Jack Type	Color		1 RU (1.75")	1.5 RU (2.63")	2 RU (3.50")
Midsize	Normalling Jacks	MVJ-3	Gray	2x32	PPI1232-MVJ	PPI15232-MVJ	PPI2232-MVJ
			Black	2x32	PPI1232-MVJ-BK	PPI15232-MVJ-BK	PPI2232-MVJ-BK
		MVJ-3Tx Terminated	Gray	2x32	PPI1232-MVJT	PPI15232-MVJT	PPI2232-MVJT
			Black	2x32	PPI1232-MVJT-BK	PPI15232-MVJT-BK	PPI2232-MVJT-BK
	Straight-Through Jacks	CJM	Gray	2x32	PPI1232-CJM	PPI15232-CJM	PPI2232-CJM
			Black	2x32	PPI1232-CJM-BK	PPI15232-CJM-BK	PPI2232-CJM-BK
		CJMT Terminated	Gray	2x32	PPI1232-CJMT	PPI15232-CJMT	PPI2232-CJMT
			Black	2x32	PPI1232-CJMT-BK	PPI15232-CJMT-BK	PPI2232-CJMT-BK
	Monitoring Panels	MVJ-3	Black	3x32	-	-	PPI2332-MVJ-MON-BK
		MVJ-3T Terminated	Black	3x32	-	-	PPI2332-MVJT-MONT-BK
	Empty	None	Gray	2x32	PPI1232	PPI15232	PPI2232
			Black	2x32	PPI1232-BK	PPI15232-BK	PPI2232-BK
Standard Size	Normalling Jacks	SVJ-2	Gray	2x24	PPI1224-SVJ	PPI15224-SVJ	PPI2224-SVJ
				2x26	PPI1226-SVJ	PPI15226-SVJ	PPI2226-SVJ
			Black	2x24	PPI1224-SVJ-BK	PPI15224-SVJ-BK	PPI2224-SVJ-BK
				2x26	PPI1226-SVJ-BK	PPI15226-SVJ-BK	PPI2226-SVJ-BK
		SVJ-2T Terminated	Gray	2x24	PPI1224-SVJT	PPI15224-SVJT	PPI2224-SVJT
				2x26	PPI1226-SVJT	PPI15226-SVJT	PPI2226-SVJT
			Black	2x24	PPI1224-SVJT-BK	PPI15224-SVJT-BK	PPI2224-SVJT-BK
				2x26	PPI1226-SVJT-BK	PPI15226-SVJT-BK	PPI2226-SVJT-BK
	Straight-Through Jacks	CJ2014N	Gray	2x24	PPI1224-CJ48	PPI15224-CJ48	PPI2224-CJ48
				2x26	PPI1226-CJ52	PPI15226-CJ52	PPI2226-CJ52
			Black	2x24	PPI1224-CJ48-BK	PPI15224-CJ48-BK	PPI2224-CJ48-BK
				2x26	PPI1226-CJ52-BK	PPI15226-CJ52-BK	PPI2226-CJ52-BK
		CJ2020N-75 Terminated	Gray	2x24	PPI1224-CJ48T	PPI15224-CJ48T	PPI2224-CJ48T
				2x26	PPI1226-CJ52T	PPI15226-CJ52T	PPI2226-CJ52T
			Black	2x24	PPI1224-CJ48T-BK	PPI15224-CJ48T-BK	PPI2224-CJ48T-BK
				2x26	PPI1226-CJ52T-BK	PPI15226-CJ52T-BK	PPI2226-CJ52T-BK
	Monitoring Panels	SVJ-2	Gray	3x24	-	-	PPI2324-SVJ-MON
				3x26	-	-	PPI2326-SVJ-MON
			Black	3x24	-	-	PPI2324-SVJ-MON-BK
				3x26	-	-	PPI2326-SVJ-MON-BK
		SVJ-2T Terminated	Gray	3x24	-	-	PPI2324-SVJT-MONT
				3x26	-	-	PPI2326-SVJT-MONT
			Black	3x24	-	-	PPI2324-SVJT-MONT-BK
				3x26	-	-	PPI2326-SVJT-MONT-BK



Video Patching Systems

ProPatch® Integrated (PPI) Series

Ordering Information

Description					Catalog Number		
		Jack Type	Color		1 RU (1.75")	1.5 RU (2.63")	2 RU (3.50")
MUSA Standard	Straight-Through Jacks	SMJ-2100	Gray	2x24	PPI1224-SMJ	PPI15224-SMJ	PPI2224-SMJ
				2x26	PPI1226-SMJ	PPI15226-SMJ	PPI2226-SMJ
			Black	2x24	PPI1224-SMJ-BK	PPI15224-SMJ-BK	PPI2224-SMJ-BK
				2x26	PPI1226-SMJ-BK	PPI15226-SMJ-BK	PPI2226-SMJ-BK
Standard Size and MUSA	Empty	None	Gray	2x24	PPI1224	PPI15224	PPI2224
				2x26	PPI1226	PPI15226	PPI2226
			Black	2x24	PPI1224-BK	PPI15224-BK	PPI2224-BK
				2x26	PPI1226-BK	PPI15226-BK	PPI2226-BK



2 RU Midsize 2x32 Panel



2 RU Midsize 3x32 Monitoring Panel



2 RU Standard Size 2x26 Panel



Video Patching Systems

ProPatch® Economical (PPE) Series

ProPatch® PPE Series Panels are designed to offer ADC performance on a modest budget. The tough, attractive panels feature a rugged epoxy powder-coated steel faceplate with a durable molded ABS jack insert. The PPE series panels do not provide any rear silk screening for port identification or cable support bars, but are available with the same jack options as the full-featured PPI series panels. Designation strips are provided with clear slide-in acetate windows, upgradeable to ADC's exclusive snap-over designation system. The durable steel faceplate ensures against bent, cracked or broken rack ears, and the molded ABS inserts prevent stripped screws and cracked inserts common with phenolic panel inserts. PPE panels are covered by a one-year warranty against defects, upgradeable to 15 years (contact ADC for details).

Features

- Steel chassis with high-impact ABS plastic-molded inserts
- Highest quality, widest bandwidth, longest lasting jacks available. True 75 Ω impedance
- Acetate slide-in style designation windows
- Optional snap-over window available
- Available in all jack types
- 1 year warranty, upgradable to 15 years
- ProPatch® PPE Series unloaded video panels come in 1, 2, 3 and 4 RU models. They feature a rugged steel faceplate with molded ABS jack inserts.
- Panels are available for standard size jacks in 2x24, 2x26, and 3x26 arrays. For midsize jacks, panels are available in 2x32 and 3x32 arrays. When ordering jacks, alternating short and long jacks to ease cabling.



1 RU Midsize 2x32 Panel
(rear view)



1 RU Standard Size/MUSA 2x24 Panel



1.5 RU Standard Size/MUSA 2x24 Panel



2 RU Midsize 2x32 Panel



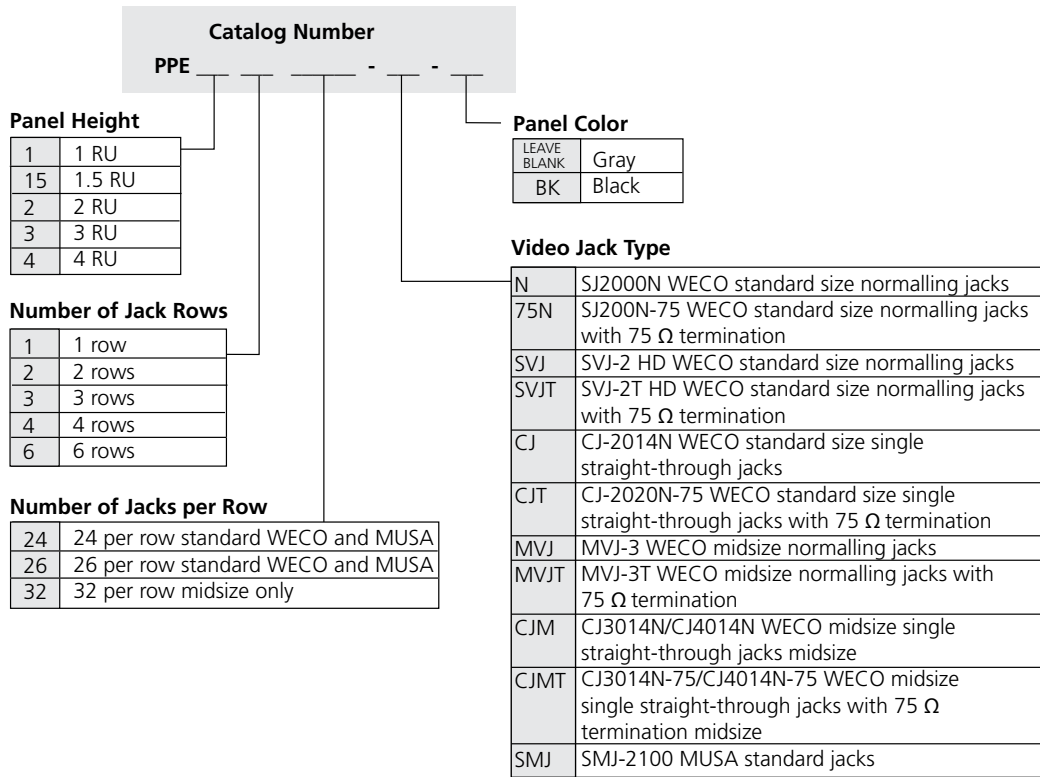
4 RU Midsize 6x32 Panel



Video Patching Systems

ProPatch® Economical (PPE) Series

The information below explains the catalog numbers contained in the charts on this page and the next. Custom configurations are available; please contact ADC.



Ordering Information

Description					Catalog Number		
		Jack Type	Color		1 RU (1.75")	1.5 RU (2.63")	2 RU (3.50")
Midsize	Normalling Jacks	MVJ-3	Gray	2x32	PPE1232-MVJ	PPE15232-MVJ	PPE2232-MVJ
			Black	2x32	PPE1232-MVJ-BK	PPE15232-MVJ-BK	PPE2232-MVJ-BK
		MVJ-3T Terminated	Gray	2x32	PPE1232-MVJT	PPE15232-MVJT	PPE2232-MVJT
			Black	2x32	PPE1232-MVJT-BK	PPE15232-MVJT-BK	PPE2232-MVJT-BK
	Straight-Through Jacks	CJM	Gray	2x32	PPE1232-CJM	PPE15232-CJM	PPE2232-CJM
			Black	2x32	PPE1232-CJM-BK	PPE15232-CJM-BK	PPE2232-CJM-BK
		CJMT Terminated	Gray	2x32	PPE1232-CJMT	PPE15232-CJMT	PPE2232-CJMT
			Black	2x32	PPE1232-CJMT-BK	PPE15232-CJMT-BK	PPE2232-CJMT-BK
	Monitoring Panels	MVJ-3	Black	3x32	-	-	PPE2332-MVJ-MON-BK
		MVJ-3T Terminated	Black	3x32	-	-	PPE2332-MVJT-MONT-BK
	Empty	None	Gray	2x32	PPE1232	PPE15232	PPE2232
			Black	2x32	PPE1232-BK	PPE15232-BK	PPE2232-BK



Video Patching Systems

ProPatch® Economical (PPE) Series

Ordering Information

Description					Catalog Number		
		Jack Type	Color		1 RU (1.75")	1.5 RU (2.63")	2 RU (3.50")
Standard Size	Normalling Jacks	SVJ-2	Gray	2x24	PPE1224-SVJ	PPE15224-SVJ	PPE2224-SVJ
				2x26	PPE1226-SVJ	PPE15226-SVJ	PPE2226-SVJ
			Black	2x24	PPE1224-SVJ-BK	PPE15224-SVJ-BK	PPE2224-SVJ-BK
				2x26	PPE1226-SVJ-BK	PPE15226-SVJ-BK	PPE2226-SVJ-BK
		SVJ-2T Terminated	Gray	2x24	PPE1224-SVJT	PPE15224-SVJT	PPE2224-SVJT
				2x26	PPE1226-SVJT	PPE15226-SVJT	PPE2226-SVJT
			Black	2x24	PPE1224-SVJT-BK	PPE15224-SVJT-BK	PPE2224-SVJT-BK
				2x26	PPE1226-SVJT-BK	PPE15226-SVJT-BK	PPE2226-SVJT-BK
	Straight-Through Jacks	CJ2014N	Gray	2x24	PPE1224-CJ48	PPE15224-CJ48	PPE2224-CJ48
				2x26	PPE1226-CJ52	PPE15226-CJ52	PPE2226-CJ52
			Black	2x24	PPE1224-CJ48-BK	PPE15224-CJ48-BK	PPE2224-CJ48-BK
				2x26	PPE1226-CJ52-BK	PPE15226-CJ52-BK	PPE2226-CJ52-BK
		CJ2020N-75 Terminated	Gray	2x24	PPE1224-CJ48T	PPE15224-CJ48T	PPE2224-CJ48T
				2x26	PPE1226-CJ52T	PPE15226-CJ52T	PPE2226-CJ52T
			Black	2x24	PPE1224-CJ48T-BK	PPE15224-CJ48T-BK	PPE2224-CJ48T-BK
				2x26	PPE1226-CJ52T-BK	PPE15226-CJ52T-BK	PPE2226-CJ52T-BK
	Monitoring Panel	SVJ-2	Gray	3x24	-	-	PPE2324-SVJ-MON
				3x26	-	-	PPE2326-SVJ-MON
			Black	3x24	-	-	PPE2324-SVJ-MON-BK
				3x26	-	-	PPE2326-SVJ-MON-BK
		SVJ-2T Terminated	Gray	3x24	-	-	PPE2324-SVJT-MONT
				3x26	-	-	PPE2326-SVJT-MONT
			Black	3x24	-	-	PPE2324-SVJT-MONT-BK
				3x26	-	-	PPE2326-SVJT-MONT-BK
MUSA Standard	Straight-Through Jacks	SMJ-2100	Gray	2x24	PPE1224-SMJ	PPE15224-SMJ	PPE2224-SMJ
				2x26	PPE1226-SMJ	PPE15226-SMJ	PPE2226-SMJ
			Black	2x24	PPE1224-SMJ-BK	PPE15224-SMJ-BK	PPE2224-SMJ-BK
				2x26	PPE1226-SMJ-BK	PPE15226-SMJ-BK	PPE2226-SMJ-BK
Standard Size and MUSA	Empty	None	Gray	2x24	PPE1224	PPE15224	PPE2224
				2x26	PPE1226	PPE15226	PPE2226
			Black	2x24	PPE1224-BK	PPE15224-BK	PPE2224-BK
				2x26	PPE1226-BK	PPE15226-BK	PPE2226-BK

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Video Patching Systems

ProPatch® Economical (PPE) Series

Video

10/09 • 102117AE Broadcast and Entertainment Products

Ordering Information

Description					Catalog Number	
		Jack Type	Color		4 RU (7.00")	
Midsize	Normalling Jacks	MVJ-3	Gray	6x32	PPE4632-MVJ	
			Black	6x32	PPE4632-MVJ-BK	
		MVJ-3T Terminated	Gray	6x32	PPE4632-MVJT	
			Black	6x32	PPE4632-MVJT-BK	
	Straight-Through Jacks	CJM	Gray	6x32	PPE4632-CJM	
			Black	6x32	PPE4632-CJM-BK	
		CJMT Terminated	Gray	6x32	PPE4632-CJMT	
			Black	6x32	PPE4632-CJMT-BK	
	Empty	None	Gray	6x32	PPE4632	
			Black	6x32	PPE4632-BK	
Standard Size	Normalling Jacks	SVJ-2	Gray	6x24	PPE4624-SVJ	
				6x26	PPE4626-SVJ	
			Black	6x24	PPE4624-SVJ-BK	
				6x26	PPE4626-SVJ-BK	
		SVJ-2T Terminated	Gray	6x24	PPE4624-SVJT	
				6x26	PPE4626-SVJT	
			Black	6x24	PPE4624-SVJT-BK	
				6x26	PPE4626-SVJT-BK	
		Straight-Through Jacks	CJ2014N	Gray	6x24	PPE4624-CJ48
					6x26	PPE4626-CJ52
				Black	6x24	PPE4624-CJ48-BK
					6x26	PPE4626-CJ52-BK
	CJ2020N-75 Terminated		Gray	6x24	PPE4624-CJ48T	
				6x26	PPE4626-CJ52T	
			Black	6x24	PPE4624-CJ48T-BK	
				6x26	PPE4626-CJ52T-BK	
MUSA Standard	Straight-Through Jacks	SMJ-2100	Gray	6x24	PPE4624-SMJ	
				6x26	PPE4626-SMJ	
		Black	6x24	PPE4624-SMJ-BK		
			6x26	PPE4626-SMJ-BK		
Standard Size and MUSA	Empty	None	Gray	6x24	PPE4624	
				6x26	PPE4626	
			Black	6x24	PPE4624-BK	
				6x26	PPE4626-BK	
Snap-Over Window Kits						
Window for all 1-rack unit standard WECO and MUSA 1.75" panels, 2 windows					VP-DES-279-A	
Window for all 1-rack unit midsize WECO 1.75" panels, 2 windows					VP-DES-343-A	
Window for all 1.5-rack unit and larger standard, midsize and MUSA, 1 window					HDW-101115	



Video Patching Systems

Component Patching System (CAPS)

The CAPS Component Patching System for analog or digital component video provides the ideal combination of modular flexibility, durability, and preconfigurability all in one system. The steel 2 RU modular panel with cable tray can be preconfigured with a full complement of jacks, or you can order an empty panel and add easily installed jack modules as needed. Modules and preconfigured panels are available in a variety of configurations. Also, see the UniPatch® modular system beginning on page 86.



RGB Module
(CV-M-N)



8 RGB Group Patchbay
(CV-8-N)



(rear view)



6 RGB + Horizontal and Vertical Sync Patchbay
(CV-6-MHV-3T)

Features

- 2 RU epoxy powder-coated steel panel, including top cover and cable tray with cable wrap holes for superior strain relief
- Order panel preconfigured, or order an empty panel and add modules as needed
- Jack groups for RGB, P.P.Y, RGB + Sync, or RGB + horizontal and vertical sync
- Standard and midsize jacks of all kinds: dual self-normal, straight-through singles, straight with termination, and super (high-definition) dual self-normal
- Horizontal and vertical designation strip holders included



Video Patching Systems

Component Patching System (CAPS)

Ordering Information

Description	Catalog Number
Loaded Patchbays	
8 RGB, Pr Pb Y group panel	
SJ2000N jacks	CV-8-N
SJ2000N-75 jacks	CV-8-N75
CJ2014N single jacks	CV-8-CJ48
10 RGB + sync group panel (jacks grouped vertically)	
SVJ-2T jacks	CV-10-S-SVJT
6 RGB + horizontal and vertical sync	
MVJ-3T midsize jacks	CV-6MHV-3T
Modular Patchbays	
Chassis - 3.5" x 19" (8.89 x 48.26 cm); accommodates up to 8 RGB group modules	CV-CM
One RGB, Pr Pb Y group module; SJ2000N jacks	CV-M-N
Blank module	CPPV-B
Panels without Jacks	
8 RGB, Pr Pb Y group panel	CV-8-NJ
6 RGB + sync group panel	CV-6-NJ
RGB, Pr Pb Y Video Patch Cords; Black, three-conductor cable, standard size plugs	
2 ft/.61 m	CVPC-2
3 ft/.93 m	CVPC-3
4 ft/1.2 m	CVPC-4
6 ft/1.83 m	CVPC-6
Time Delayed Patchbay For patching of timed analog video circuits; requires use of 3' patch cord only 2x24, delayed compensated patchbay, 3.5" x 19" (8.89 x 48.26 cm), utilizes SJ1000N-75	PPV-24MKII

Custom panel configurations are available; please contact ADC.



Video Patching Systems

Coax Patch Cords



ADC offers high-quality video patch cords capable of handling uncompressed high-definition digital video, serial digital video, and analog as well as AES audio. ADC patch cords feature a patented True 75 Ω design that virtually eliminates bit errors, are made of the highest quality materials and provide excellent mechanical durability.

The digital television revolution is stretching the limits of the physical plant technology designed for analog video copper. Cable and connectors not optimized for the digital environment can seriously degrade the digital signal being transported. The problem is that all WECO-standard jacks and patch cords exhibit an impedance violation of between 58 and 62 Ω in the patched state. This becomes a major source of attenuation and bit errors in serial digital and high-definition video signals.

Patented HD Patch Cords

ADC's ST series standard-size patch cords feature a patented design that provides a true 75 Ω interface in the patched state when used with ADC's SVJ-2 super video jack family. ST series maintains the WECO interface for maximum industry compatibility and provides a true 75 Ω interface.

HD Rated VX™ Series

ADC's VX™ standard, midsize and MUSA standard video patch cords feature a unique plug design that optimizes impedance performance during the patched state. The unique plug design is optimized for HD video applications for WECO midsize and MUSA formats. For WECO standard size HD patching, the ST series is recommended.

Both designs reduce or eliminate attenuation and bit errors in serial digital and high-definition video signals, especially in the uncompressed mode.

Features

- Patented design provides a 75 Ω interface in the patched state
- Standard size compatible with all WECO .090 standard video jacks
- Performance matched for uncompressed HDTV signals (1.485 Gbit/s)
- Gastight crimp design. 100 percent solderless construction assures quality
- Precision-molded insulators for true impedance match and greater unit-to-unit consistency compared to machined plastic
- HD-rated 1505F cable with matte finish
- Full-molded strain relief defeats abuse
- Gold-plated center conductors
- Available in red, green, blue, black, orange, yellow, violet, and white in 2-foot (.6 m) to 6-foot (1.8 m) lengths
- MUSA format features unique closed-entry center pin to prevent breakage



Video Patching Systems

Coax Patch Cords

Ordering Information

Description	Catalog Number				
For all WECO Standard Size 2x24 and 2x26 Panels	1 ft/.3 m	2 ft/.61 m	3 ft/.93m	4 ft/1.22 m	6 ft/1.83 m
WECO Standard Size VX to Standard Size VX Plug					
Black	BK1VX	BK2VX	BK3VX	BK4VX	BK6VX
Red	R1VX	R2VX	R3VX	R4VX	R6VX
Orange	O1VX	O2VX	O3VX	O4VX	O6VX
Yellow	Y1VX	Y2VX	Y3VX	Y4VX	Y6VX
Green	G1VX	G2VX	G3VX	G4VX	G6VX
Blue	B1VX	B2VX	B3VX	B4VX	B6VX
Violet	V1VX	V2VX	V3VX	V4VX	V6VX
White	W1VX	W2VX	W3VX	W4VX	W6VX
WECO ST Standard Size ST HD to Standard Size Plug					
Black	BK1V-ST5	BK2V-ST5	BK3V-ST5	BK4V-ST5	BK6V-ST5
Red	R1V-ST5	R2V-ST5	R3V-ST5	R4V-ST5	R6V-ST5
Orange	O1V-ST5	O2V-ST5	O3V-ST5	O4V-ST5	O6V-ST5
Yellow	-	Y2V-ST5	Y3V-ST5	Y4V-ST5	Y6V-ST5
Green	-	G2V-ST5	G3V-ST5	G4V-ST5	G6V-ST5
Blue	-	B2V-ST5	B3V-ST5	B4V-ST5	B6V-ST5
Violet	-	V2V-ST5	V3V-ST5	V4V-ST5	V6V-ST5
White	-	W2V-ST5	W3V-ST5	W4V-ST5	W6V-ST5
WECO Standard Size VX to BNC					
Black	BK1VX-B	BK2VX-B	BK3VX-B	BK4VX-B	BK6VX-B
Red	R1VX-B	R2VX-B	R3VX-B	R4VX-B	R6VX-B
Orange	O1VX-B	O2VX-B	O3VX-B	O4VX-B	O6VX-B
Yellow	Y1VX-B	Y2VX-B	Y3VX-B	Y4VX-B	Y6VX-B
Blue	B1VX-B	B2VX-B	B3VX-B	B4VX-B	B6VX-B
Violet	V1VX-B	V2VX-B	V3VX-B	V4VX-B	V6VX-B
WECO Standard Size ST HD to BNC					
Black	BK1V-ST5-B	BK2V-ST5-B	BK3V-ST5-B	BK4V-ST5-B	BK6V-ST5-B
Red	R1V-ST5-B	R2V-ST5-B	R3V-ST5-B	R4V-ST5-B	R6V-ST5-B
Orange	O1V-ST5-B	O2V-ST5-B	O3V-ST5-B	O4V-ST5-B	O6V-ST5-B
Yellow	Y1V-ST5-B	Y2V-ST5-B	Y3V-ST5-B	Y4V-ST5-B	Y6V-ST5-B
Green	G1V-ST5-B	G2V-ST5-B	G3V-ST5-B	G4V-ST5-B	G6V-ST5-B
Blue	B1V-ST5-B	B2V-ST5-B	B3V-ST5-B	B4V-ST5-B	B6V-ST5-B
Violet	V1V-ST5-B	V2V-ST5-B	V3V-ST5-B	V4V-ST5-B	V6V-ST5-B

Note: Standard patch cord colors are black, red, orange, yellow, green, blue, violet and white. These color cords are available in the standard lengths shown above; please contact ADC for additional custom lengths and leadtime.



Video Patching Systems

Coax Patch Cords

Ordering Information

Description	Catalog Number				
For all WECO Midsize 2x32 Panels	1 ft/.3 m	2 ft/.61m	3 ft/.93 m	4 ft/1.22 m	6 ft/1.83 m
WECO Midsize Plug to Midsize Plug					
Black	BK1V-STM	BK2V-STM	BK3V-STM	BK4V-STM	BK6V-STM
Red	R1V-STM	R2V-STM	R3V-STM	R4V-STM	R6V-STM
Orange	O1V-STM	O2V-STM	O3V-STM	O4V-STM	O6V-STM
Yellow	Y1V-STM	Y2V-STM	Y3V-STM	Y4V-STM	Y6V-STM
Green	G1V-STM	G2V-STM	G3V-STM	G4V-STM	G6V-STM
Blue	B1V-STM	B2V-STM	B3V-STM	B4V-STM	B6V-STM
Violet	V1V-STM	V2V-STM	V3V-STM	V4V-STM	V6V-STM
White	W1V-STM	W2V-STM	W3V-STM	W4V-STM	W6V-STM
WECO Midsize Plug to BNC					
Black	BK1V-STM-B	BK2V-STM-B	BK3V-STM-B	BK4V-STM-B	BK6V-STM-B
Red	R1V-STM-B	R2V-STM-B	R3V-STM-B	R4V-STM-B	R6V-STM-B
Orange	O1V-STM-B	O2V-STM-B	O3V-STM-B	O4V-STM-B	O6V-STM-B
Yellow	Y1V-STM-B	Y2V-STM-B	Y3V-STM-B	Y4V-STM-B	Y6V-STM-B
Green	G1V-STM-B	G2V-STM-B	G3V-STM-B	G4V-STM-B	G6V-STM-B
Blue	B1V-STM-B	B2V-STM-B	B3V-STM-B	B4V-STM-B	B6V-STM-B
Violet	V1V-STM-B	V2V-STM-B	V3V-STM-B	V4V-STM-B	V6V-STM-B
White	W1V-STM-B	W2V-STM-B	W3V-STM-B	W4V-STM-B	W6V-STM-B
WECO Midsize Plug to Standard Size Plug					
Black	BK1V-M-S	BK2V-M-S	BK3V-M-S	BK4V-M-S	BK6V-M-S
Red	R1V-M-S	R2V-M-S	R3V-M-S	R4V-M-S	R6V-M-S
Orange	O1V-M-S	O2V-M-S	O3V-M-S	O4V-M-S	O6V-M-S
Yellow	Y1V-M-S	Y2V-M-S	Y3V-M-S	Y4V-M-S	Y6V-M-S
Green	G1V-M-S	G2V-M-S	G3V-M-S	G4V-M-S	G6V-M-S
Blue	B1V-M-S	B2V-M-S	B3V-M-S	B4V-M-S	B6V-M-S
Violet	V1V-M-S	V2V-M-S	V3V-M-S	V4V-M-S	V6V-M-S
White	W1V-M-S	W2V-M-S	W3V-M-S	W4V-M-S	W6V-M-S

Note: Standard patch cord colors are black, red, orange, yellow, green, blue, violet and white. These color cords are available in the standard lengths shown above; please contact ADC for additional custom lengths and leadtime.



Video Patching Systems

Coax Patch Cords

Video

Ordering Information

Description	Catalog Number				
	1 ft/.3 m	2 ft/.61 m	3 ft/.93 m	4 ft/1.22 m	6 ft/1.83 m
For all MUSA Standard 2x24 and 2x26 Panels					
MUSA to MUSA (HD)					
Black	BK300V-MU	BK600V-MU	BK900V-MU	BK1200V-MU	BK1800V-MU
Red	R300V-MU	R600V-MU	R900V-MU	R1200V-MU	R1800V-MU
Orange	O300V-MU	O600V-MU	O900V-MU	O1200V-MU	O1800V-MU
Yellow	Y300V-MU	Y600V-MU	Y900V-MU	Y1200V-MU	Y1800V-MU
Green	G300V-MU	G600V-MU	G900V-MU	G1200V-MU	G1800V-MU
Blue	B300V-MU	B600V-MU	B900V-MU	B1200V-MU	B1800V-MU
Violet	V300V-MU	V600V-MU	V900V-MU	V1200V-MU	V1800V-MU
White	W300V-MU	W600V-MU	W900V-MU	W1200V-MU	W1800V-MU
MUSA to BNC					
Black	BK300V-MU-B	BK600V-MU-B	BK900V-MU-B	BK1200V-MU-B	BK1800V-MU-B
Red	R300V-MU-B	R600V-MU-B	R900V-MU-B	R1200V-MU-B	R1800V-MU-B
Orange	O300V-MU-B	O600V-MU-B	O900V-MU-B	O1200V-MU-B	O1800V-MU-B
Yellow	Y300V-MU-B	Y600V-MU-B	Y900V-MU-B	Y1200V-MU-B	Y1800V-MU-B
Green	G300V-MU-B	G600V-MU-B	G900V-MU-B	G1200V-MU-B	G1800V-MU-B
Blue	B300V-MU-B	B600V-MU-B	B900V-MU-B	B1200V-MU-B	B1800V-MU-B
Violet	V300V-MU-B	V600V-MU-B	V900V-MU-B	V1200V-MU-B	V1800V-MU-B
White	W300V-MU-B	W600V-MU-B	W900V-MU-B	W1200V-MU-B	W1800V-MU-B
MUSA to F					
Black	BK300V-MU-F	BK600V-MU-F	BK900V-MU-F	BK1200V-MU-F	BK1800V-MU-F
Red	R300V-MU-F	R600V-MU-F	R900V-MU-F	R1200V-MU-F	R1800V-MU-F
Orange	O300V-MU-F	O600V-MU-F	O900V-MU-F	O1200V-MU-F	O1800V-MU-F
Yellow	Y300V-MU-F	Y600V-MU-F	Y900V-MU-F	Y1200V-MU-F	Y1800V-MU-F
Green	G300V-MU-F	G600V-MU-F	G900V-MU-F	G1200V-MU-F	G1800V-MU-F
Blue	B300V-MU-F	B600V-MU-F	B900V-MU-F	B1200V-MU-F	B1800V-MU-F
Violet	V300V-MU-F	V600V-MU-F	V900V-MU-F	V1200V-MU-F	V1800V-MU-F
White	W300V-MU-F	W600V-MU-F	W900V-MU-F	W1200V-MU-F	W1800V-MU-F
MUSA to RCA					
Black	BK300V-MU-R	BK600V-MU-R	BK900V-MU-R	BK1200V-MU-R	BK1800V-MU-R
Red	R300V-MU-R	R600V-MU-R	R900V-MU-R	R1200V-MU-R	R1800V-MU-R
Orange	O300V-MU-R	O600V-MU-R	O900V-MU-R	O1200V-MU-R	O1800V-MU-R
Yellow	Y300V-MU-R	Y600V-MU-R	Y900V-MU-R	Y1200V-MU-R	Y1800V-MU-R
Green	G300V-MU-R	G600V-MU-R	G900V-MU-R	G1200V-MU-R	G1800V-MU-R
Blue	B300V-MU-R	B600V-MU-R	B900V-MU-R	B1200V-MU-R	B1800V-MU-R
Violet	V300V-MU-R	V600V-MU-R	V900V-MU-R	V1200V-MU-R	V1800V-MU-R
White	W300V-MU-R	W600V-MU-R	W900V-MU-R	W1200V-MU-R	W1800V-MU-R
MUSA to WECO Standard ST HD					
Black	BK300V-MU-STs	BK600V-MU-STs	BK900V-MU-STs	BK1200V-MU-STs	BK1800V-MU-STs
Red	R300V-MU-STs	R600V-MU-STs	R900V-MU-STs	R1200V-MU-STs	R1800V-MU-STs
Orange	O300V-MU-STs	O600V-MU-STs	O900V-MU-STs	O1200V-MU-STs	O1800V-MU-STs
Yellow	Y300V-MU-STs	Y600V-MU-STs	Y900V-MU-STs	Y1200V-MU-STs	Y1800V-MU-STs
Green	G300V-MU-STs	G600V-MU-STs	G900V-MU-STs	G1200V-MU-STs	G1800V-MU-STs
Blue	B300V-MU-STs	B600V-MU-STs	B900V-MU-STs	B1200V-MU-STs	B1800V-MU-STs
Violet	V300V-MU-STs	V600V-MU-STs	V900V-MU-STs	V1200V-MU-STs	V1800V-MU-STs
White	W300V-MU-STs	W600V-MU-STs	W900V-MU-STs	W1200V-MU-STs	W1800V-MU-STs

Note: Standard patch cord colors are black, red, orange, yellow, green, blue, violet and white. These color cords are available in the standard lengths shown above; please contact ADC for additional custom lengths and leadtime.

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Video Patching Systems

Coax Patch Cords

Ordering Information

Description	Catalog Number				
Other Coax Patch Cords	1 ft/ .3m	2 ft/ .61m	3 ft/.93m	4 ft/1.22m	6 ft/1.83m
BNC to BNC					
Black	BK1VX-B/B	BK2VX-B/B	BK3VX-B/B	BK4VX-B/B	BK6VX-B/B
Red	R1VX-B/B	R2VX-B/B	R3VX-B/B	R4VX-B/B	R6VX-B/B
Orange	O1VX-B/B	O2VX-B/B	O3VX-B/B	O4VX-B/B	O6VX-B/B
Yellow	Y1VX-B/B	Y2VX-B/B	Y3VX-B/B	Y4VX-B/B	Y6VX-B/B
Green	G1VX-B/B	G2VX-B/B	G3VX-B/B	G4VX-B/B	G6VX-B/B
Blue	B1VX-B/B	B2VX-B/B	B3VX-B/B	B4VX-B/B	B6VX-B/B
Violet	V1VX-B/B	V2VX-B/B	V3VX-B/B	V4VX-B/B	V6VX-B/B
White	W1VX-B/B	W2VX-B/B	W3VX-B/B	W4VX-B/B	W6VX-B/B
F to F					
Black	BK1V-F-F	BK2V-F-F	BK3V-F-F	BK4V-F-F	BK6V-F-F
Red	R1V-F-F	R2V-F-F	R3V-F-F	R4V-F-F	R6V-F-F
Orange	O1V-F-F	O2V-F-F	O3V-F-F	O4V-F-F	O6V-F-F
Yellow	Y1V-F-F	Y2V-F-F	Y3V-F-F	Y4V-F-F	Y6V-F-F
Green	G1V-F-F	G2V-F-F	G3V-F-F	G4V-F-F	G6V-F-F
Blue	B1V-F-F	B2V-F-F	B3V-F-F	B4V-F-F	B6V-F-F
Violet	V1V-F-F	V2V-F-F	V3V-F-F	V4V-F-F	V6V-F-F
White	W1V-F-F	W2V-F-F	W3V-F-F	W4V-F-F	W6V-F-F
RCA to RCA					
Black	BK1V-R-R	BK2V-R-R	BK3V-R-R	BK4V-R-R	BK6V-R-R
Red	R1V-R-R	R2V-R-R	R3V-R-R	R4V-R-R	R6V-R-R
Orange	O1V-R-R	O2V-R-R	O3V-R-R	O4V-R-R	O6V-R-R
Yellow	Y1V-R-R	Y2V-R-R	Y3V-R-R	Y4V-R-R	Y6V-R-R
Green	G1V-R-R	G2V-R-R	G3V-R-R	G4V-R-R	G6V-R-R
Blue	B1V-R-R	B2V-R-R	B3V-R-R	B4V-R-R	B6V-R-R
Violet	V1V-R-R	V2V-R-R	V3V-R-R	V4V-R-R	V6V-R-R
White	W1V-R-R	W2V-R-R	W3V-R-R	W4V-R-R	W6V-R-R

Note: Standard patch cord colors are black, red, orange, yellow, green, blue, violet and white. These color cords are available in the standard lengths shown above; please contact ADC for additional custom lengths and leadtime.



ProPatch® Audio Patching Systems

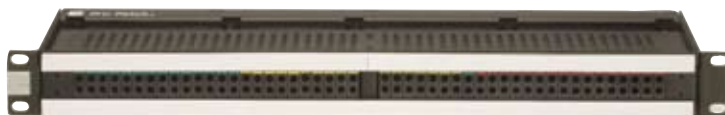


ProPatch® Programmable (PPP) Series	50
ProPatch® Professional (PPA and PPB) Series	58
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Audio Patching Systems

ProPatch® Programmable (PPP) Series



The ProPatch® Programmable modular system offers unprecedented reliability and flexibility in a convenient, space-saving size and lightweight package. Specifically engineered for everyday use in demanding mobile trucks, the ProPatch Programmable system is the only product in its class that passes stringent MIL-STD-202F standards for vibration and environmental requirements.

The ProPatch Programmable bantam system is a WECO-standard module in a high-density 2x48 one rack space panel. The longframe system is a WECO-standard module in either a 2x24 or high-density 2x32 one rack space configuration. The modular design allows individual front jack access for circuit and ground configurations without having to take the entire panel offline or removing it from the rack. Each modular jack features WECO gold crossbar contacts that provide self-cleaning action and maximize reliability. Jack modules are also individually sealed which prevents dust and contamination from convection plenum action common in rack mounted systems.

The ProPatch Programmable series is available with a variety of termination options including QCP punchdown, LSA-PLUS® punchdown, 3-pin, 56-pin, 90-pin, 120-pin EDAC/ELCO connectors, and 50-pin AMP "champ" connectors, in both an eight-connector version for audio and a four-connector version for RTS/ClearCom type intercom systems.

Only five inches deep and 6.2 pounds fully configured, the ProPatch Programmable series is unmatched in the marketplace. Using ADC's patent-pending escutcheon kit, the one rack unit panel can be converted to a 1.5 rack unit configuration. This allows the use of ADC's ultra-large designation strips, providing room for three lines of text, plus markers—the largest designations on the market.



Audio Patching Systems

ProPatch® Programmable (PPP) Series

Individual Jack Access

Each ProPatch® Programmable panel features individual jack cards. Cards contain an individual circuit pair of jacks, front panel circuit status snap-in icon, and seven-position gold plated sealed DIP switch for normal and ground configuration. The gold-plated header card plugs and sockets contained in the chassis ensure maximum reliability.

To remove a jack, remove the top and bottom designation strips, push down the locking tab on the jack module and slide the module out from the front of the chassis. It is not necessary to remove the entire panel from the rack, or the cover from the chassis. Unauthorized circuit changes are eliminated because switches are hidden from front panel view.

The ProPatch Programmable system is the only product in its class that passes demanding MIL-202 environmental testing for thermal shock, resistance from moisture contamination, plating corrosion from salt fog, and vibration to simulate long-term fixed installation and over-the-road use.



Bantam

ProPatch Programmable panel allows individual front-panel jack access for normals and grounds without having to take the entire panel off-line. Special 7-position DIP switches allows configuration of the circuit normal and grounds without cumbersome jumpers or pins to lose. (See-through cover in photo is for demonstration purposes only.)



Longframe

Features

- Industry's only bantam and longframe audio panel fully qualified to meet demanding military standards (MIL-STD 202F for ruggedness, and MIL-J-641E for jack compliance)
- Lightweight panels weigh only 6.2 pounds (2.8 kg)
- High-density bantam 2x48 WECO-compliant bantam jacks on 0.312-inch centers
- High-density 2x32 or 2x24 longframe jack on .500-inch centers
- Gold plated DIP switch selectable circuit normals and grounds
- Shallow depth chassis determined by connector style
- Fully AES/EBU 110 W digital and analog compliant
- Modular design allows individual jack access/configuration without affecting other circuits
- Grounds can be configured on an individual circuit basis for lift, chassis, sleeve, and common ground
- Modules snap into place, tabs lock into chassis
- Circuit status icons allow users to identify circuit status with snap-in icons in eight colors
- Designation strips cover tabs to prevent unauthorized access to circuit configuration switches
- Converts to a 1.5 rack unit panel with a patent-pending escutcheon kit
- Largest designations on the market
Bantam: .410" for 1 RU
Longframe: .313" for 1 RU
Bantam and Longframe: .680" for 1.5 RU



Audio Patching Systems

ProPatch® Programmable (PPP) Series

Bantam and Longframe Chassis and Module Specifications

ELECTRICAL

Contact resistance:	0.020 Ω max (initial)
	0.020 Ω max (after life cycling)
	0.10 Ω max (after salt spray)
Insulation resistance:	10,000 M Ω min (initial)
	1,000 M Ω min (after moisture resistance test)
Dielectric withstanding:	Voltage: 500 Vac
Contact rating:	Max: 100 mA + 130 Vdc; Min: -40 dBm

MECHANICAL

Mechanical shock:	Per MIL-STD-202F, Method 213B, test condition H
Vibration:	MIL-STD-1344, Method 2005, test condition I
Insertion force:	7 lbs (3.17 kg) max
Withdrawal force:	1.5 lbs (.679 kg) min
Life:	20,000 insertion/withdrawal cycles min

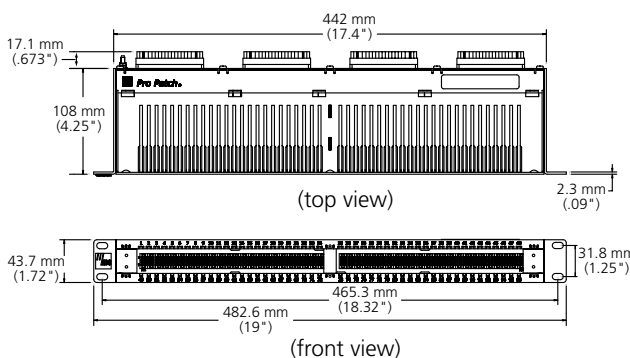
ENVIRONMENTAL

Operating temperature:	-40° to 65°C (-40° to 149°F)
Storage temperature:	-55° to 85°C (-67° to 185°F)
Thermal shock:	Per MIL-STD-202F, Method 107G, test condition A
Operating humidity:	0% to 95% (no condensation)
Storage humidity:	0% to 95% (no condensation)
Salt spray:	Per MIL-STD-202F, Method 101D
Moisture resistance:	Per MIL-STD-202F, Method 106E

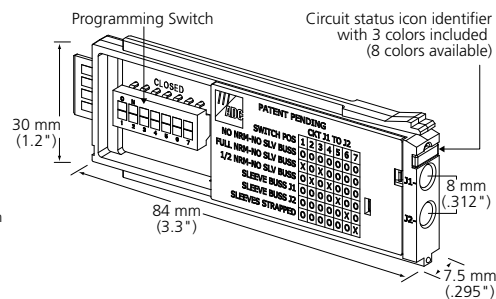
MATERIALS

Chassis frame:	Steel, zinc plated with electroless nickel plating
Jack frame:	Unreinforced polyetherimide resin rated UL 94-V0 for flammability
Springs:	Nickel-silver
Contacts:	WECO No. 1 gold crossbar alloy welded to springs
PC boards:	FR-4
Sockets:	Phosper bronze
	30 micro inches gold on contact
Switches:	Copper alloy
	10 micro inches min gold on contact

Bantam Chassis and Jack Dimensions



Typical 1 RU 48-Position Panel



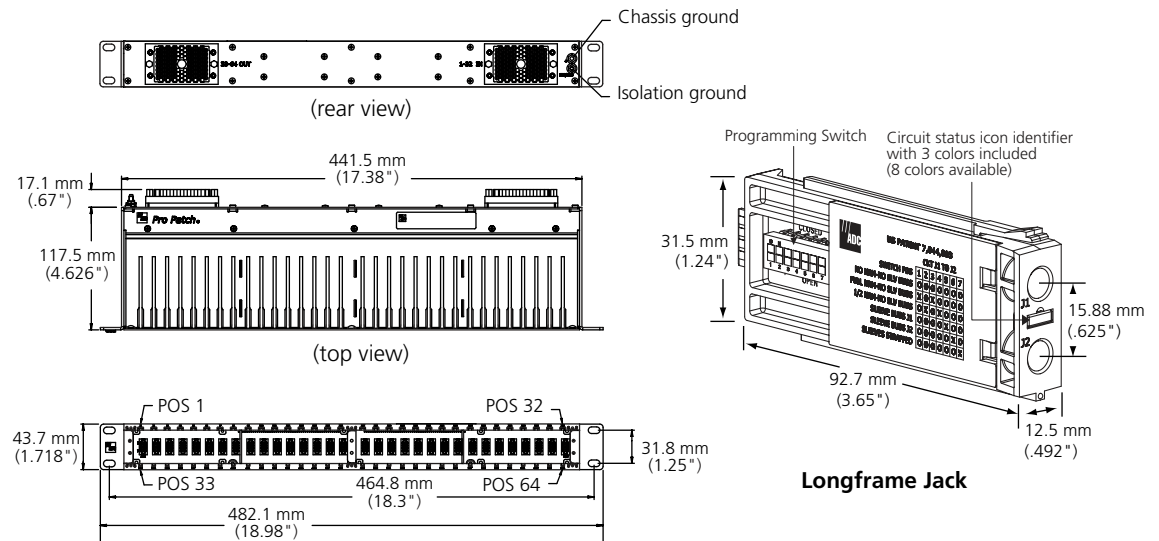
Bantam Jack



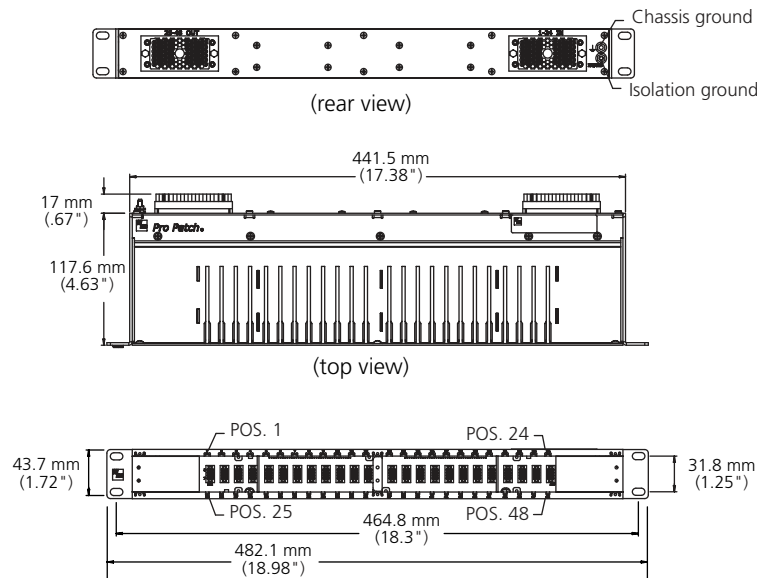
Audio Patching Systems

ProPatch® Programmable (PPP) Series

Longframe Chassis and Jack Dimensions



Typical 1 RU 32-Position Panel



Typical 1 RU 24-Position Panel



Audio Patching Systems

ProPatch® Programmable (PPP) Series



2x48 Bantam Panel
(shown with designation)

Ordering Information

Description		Catalog Number
2x48 Bantam Panels		
EDAC 3-Pin	Loaded chassis configured:	
	Half normalled	PPP1248-E3-HN
	Half normalled, with mating connector kit	PPP1248-E3-HN-S
	No normals	PPP1248-E3-NN
	No normals, with mating connector kit	PPP1248-E3-NN-S
	Normals strapped	PPP1248-E3-NS
	Normals strapped, with mating connector kit	PPP1248-E3-NS-S
	Empty chassis	PPP1248-E3
	Empty chassis, with mating connector kit	PPP1248-E3-S
EDAC 56-Pin	Loaded chassis configured:	
	Half normalled	PPP1248-E56-HN
	Normals strapped	PPP1248-E56-NS
	Empty chassis	PPP1248-E56
EDAC 90-Pin	Loaded chassis configured:	
	Half normalled	PPP1248-E90-HN
	Half normalled, with mating connector kit	PPP1248-E90-HN-S
	Normals strapped	PPP1248-E90-NS
	Normals strapped, with mating connector kit	PPP1248-E90-NS-S
	Empty chassis	PPP1248-E90
AMP 50 8 connectors	Loaded chassis configured: Normals strapped	PPP1248-A50-NS
	Empty chassis	PPP1248-A50
AMP 50 (Intercom) 4 connectors	Loaded chassis configured:	
	Half normalled	PPP1248-ICA50-HN
	Normals strapped	PPP1248-ICA50-NS
	Empty chassis	PPP1248-ICA50
QCP MKII	Loaded chassis configured:	
	Half normalled	PPP1248-QCP-HN
	Normals strapped	PPP1248-QCP-NS
	Empty chassis	PPP1248-QCP



EDAC 3-pin Chassis
PPP1248-E3-NS (rear view)



EDAC 56-pin Chassis
PPP1248-E56-NS (rear view)



EDAC 90-pin Chassis
PPP1248-E90-NS (rear view)



Audio Patching Systems

ProPatch® Programmable (PPP) Series

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2x32 Longframe Panel
(front view)

Ordering Information

Description		Catalog Number
2x32 Longframe Panels		
EDAC 3-Pin	Loaded chassis configured:	
	Half normalled	PPP1232-E3-HN
	Half normalled, with mating connector kit	PPP1232-E3-HN-S
	Empty chassis	PPP1232-E3
	No normals	PPP1232-E3-NN
	No normals, with mating connector kit	PPP1232-E3-NN-S
	Normals strapped	PPP1232-E3-NS
	Normals strapped, with mating connector kit	PPP1232-E3-NS-S
EDAC 56-Pin	Loaded chassis configured:	
	Half normalled	PPP1232-E56-HN
	Half normalled, with mating connector kit	PPP1232-E56-HN-S
	Normals strapped	PPP1232-E56-NS
	Normals strapped, with mating connector kit	PPP1232-E56-NS-S
	Empty chassis	PPP1232-E56
EDAC 120-Pin	Loaded chassis configured:	
	Half normalled	PPP1232-E120-HN
	Half normalled, with mating connector kit	PPP1232-E120-HN-S
	Normals strapped	PPP1232-E120-NS
	Normals strapped, with mating connector kit	PPP1232-E120-NS-S
	Empty chassis	PPP1232-E120
LSA-PLUS®	Loaded chassis configured:	
	Half normalled	PPP1232-LSA-HN
	Normals strapped	PPP1232-LSA-NS
	Empty chassis	PPP1232-LSA
QCP MKII	Loaded chassis configured:	
	Half normalled	PPP1232-QCP-HN
	Normals strapped	PPP1232-QCP-NS
	Empty chassis	PPP1232-QCP

Audio



Audio Patching Systems

ProPatch® Programmable (PPP) Series



2x24 Longframe Panel
(front view)

Ordering Information

Description		Catalog Number
2x24 Longframe Panels		
EDAC 90-Pin	Loaded chassis configured:	
	Half normalled	PPP1224-E90-HN
	Half normalled, with mating connector kit	PPP1224-E90-HN-S
	Normals strapped	PPP1224-E90-NS
	Normals strapped, with mating connector kit	PPP1224-E90-NS-S
	Empty chassis	PPP1224-E90
LSA-PLUS®	Loaded chassis configured:	
	Half normalled	PPP1224-LSA-HN
	Normals strapped	PPP1224-LSA-NS
	Empty chassis	PPP1224-LSA
QCP MKIV	Loaded chassis configured:	
	Half normalled	PPP1224-MKIV-HN
	Normals strapped	PPP1224-MKIV-NS
	Empty chassis	PPP1224-MKIV
QCP MKII	Loaded chassis configured:	
	Half normalled	PPP1224-QCP-HN
	Normals strapped	PPP1224-QCP-NS
	Empty chassis	PPP1224-QCP



QCP MKII Chassis
(rear view)



LSA-PLUS Chassis
(rear view)

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Audio Patching Systems

ProPatch® Programmable (PPP) Series

Jacks and Accessories



Bantam Jack
(AM1-BAN)



Longframe Jack
(AM-LF1)



1.5 RU Chassis Conversion Kit
(PPP-15-CHAS-KIT)

Ordering Information

Description	Catalog Number
Programmable Audio Jacks	
Bantam	AM1-BAN
Longframe	AM-LF1
1.5 RU Chassis Conversion Kit for Bantam and Longframe	PPP-15-CHAS-KIT
Designation Kits	
11.2 mm (.44")	VP-DES-440
17.3 mm (.68")	VP-DES-680-B
35.6 mm (1.4")	VP-DES-1400-B

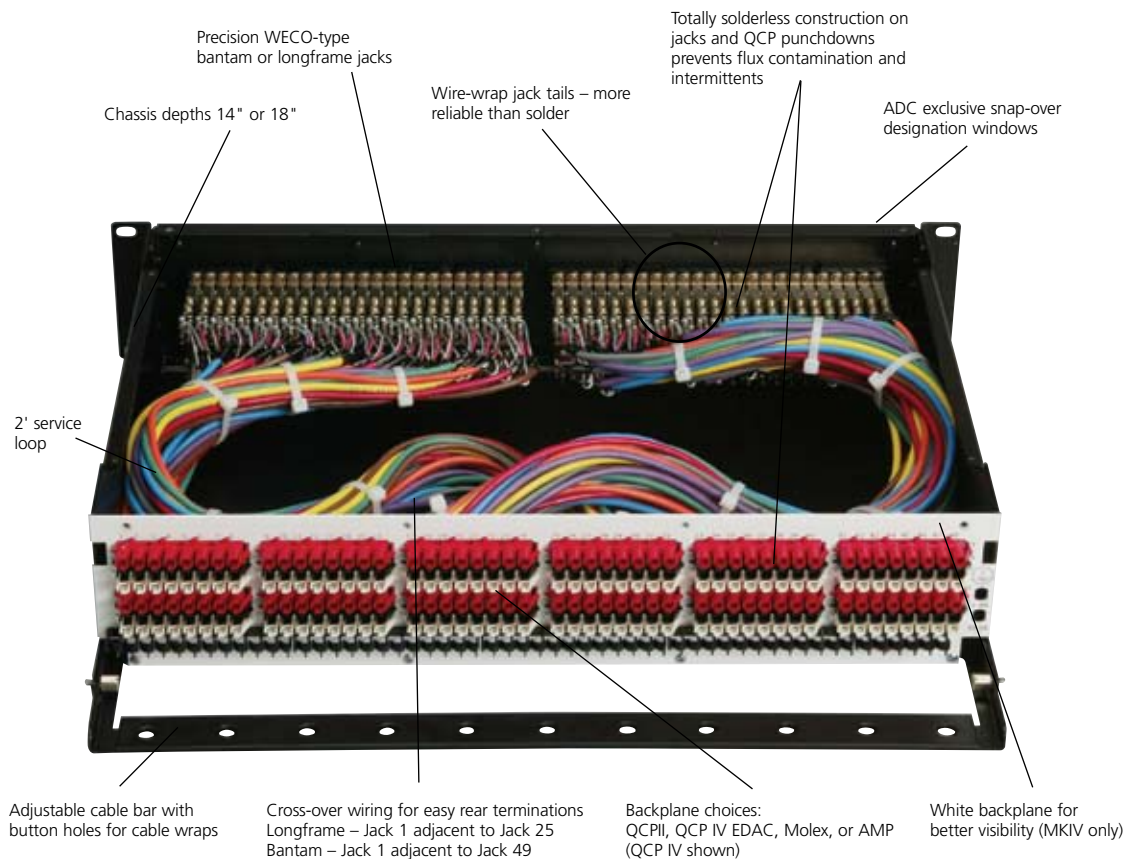
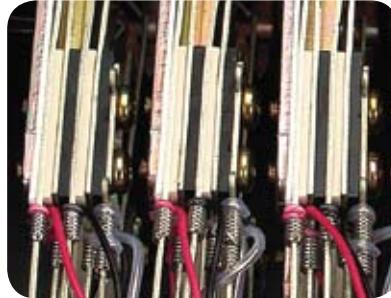


Audio Patching Systems

ProPatch® Professional (PPA and PPB) Series

Patchbays and Jackfields

ProPatch® professional audio patchbays and broadcast jackfields feature an extensive selection of jacks, panel sizes, normalling options, and rear terminations. Each panel contains ADC's high-quality, WECO-standard, frame-type jacks and includes a tough powder-coated chassis with built-in cable support and designation strips. Solderless internal wiring and terminations ensure completely dependable performance without intermittents. Termination options include the extremely reliable and quick-to-wire QCP II or QCP IV punchdown system as well as EDAC, AMP, and Molex connector options.





Audio Patching Systems

ProPatch® Professional (PPA and PPB) Series

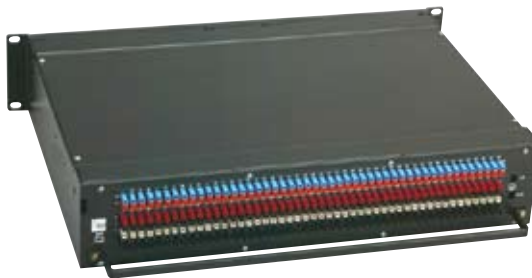
Ready to meet any analog or digital audio patching requirement, ProPatch professional audio patchbays offer an extensive selection of options. Models are available with standard or stereo-spaced longframe jacks, bantam jacks, and a variety of backplane connector types. MKII models come with QCP II, EDAC, or AMP backplane connectors and fixed cable support bars. MKIV models include QCP IV, EDAC, or AMP backplane connectors, adjustable cable support bars and a white backplane for easier circuit visibility. All models offer a wide choice of normals, a tough powder-coated chassis, and solderless internal wiring for outstanding reliability.



**1 RU Longframe Evenly Spaced 2x24
(front view)**
(PPA1-14MKIVNS)



**2 RU Bantam Evenly Spaced 2x48
(front view)**
(PPB3-14MKIVNS)



**2 RU Bantam Evenly-Spaced 2x24
(rear view)**
(PPB3-14MKIINO)



Audio Patching Systems

ProPatch® Professional (PPA and PPB) Series

Features

Next Generation ProPatch Audio Jackfields

- Analog and digital compatible — all wired with precision 110 low capacitance cable for extended analog frequency response and extended distance digital transmission (no need to specify type)
- Uniform faceplate design with standardized designation strip lengths provides a seamless appearance when matched with video panels (over and under designation)
- New lighter one-piece chassis design
- Adjustable cable strain relief bar — tilts out of way for installation access
- High impact plastic injected molded jack inserts — more durable than phenolic materials
- Standard Bantam jackfields come with regular (even) spaced inserts — stereo (group) spacing available

Longframe or Bantam Jacks

- Longframe jacks in 2x24 or 2x26 array stereo or regular spaced
- Bantam jacks in 2x48 array stereo or regular spaced

Digital Audio Cable Wiring

- Precision 110 Ω digital audio cable meets and exceeds stringent AES requirements

Variety of Jack Options

- Standard longframe jacks (evenly spaced)
- High-density bantam jacks, regular or spaced (stereo-spaced option available)
- Stereo-spacing option places jacks in pairs

Standard or Custom Sizes

- 1 RU (1.75"/44.5 mm)
- 2 RU (3.5"/88 mm)
- Depths of 14 inches (350 mm) or 18 inches (450 mm)
- Custom panel sizes available

Wide Selection of Terminations

- Patented QCP II or QCP IV punchdown connectors
- EDAC/ELCO 90-, 56-, 38- and 3-pin plugs
- AMP 50-pin receptacle
- Molex 3-pin plug

Full Range of Normalling Options

- No normals (requires looping plugs or cords for patch)
- Normals strapped (fully normalled)
- Half-normalled (monitor top row)
- Normals brought out
- Sleeve normals brought out
- Sleeves strapped
- Bussed grounds



**2 RU Longframe 2x24 EDAC 3-Pin
(rear view)**
(PPA3-14MKIV3ENS)



**2 RU Bantam EDAC 2x48
(rear view)**
(PPB3-14MKIVEN0)



**1 RU Longframe Evenly Spaced 2x24 QCPII
(rear view)**
(PPA1-14MKIINS)



Audio Patching Systems

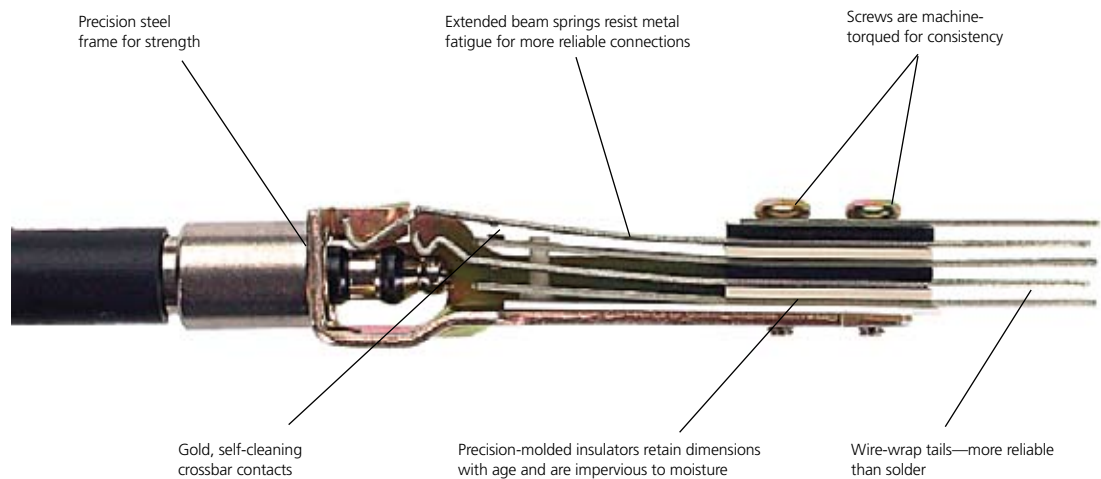
ProPatch® Professional (PPA and PPB) Series

Jacks

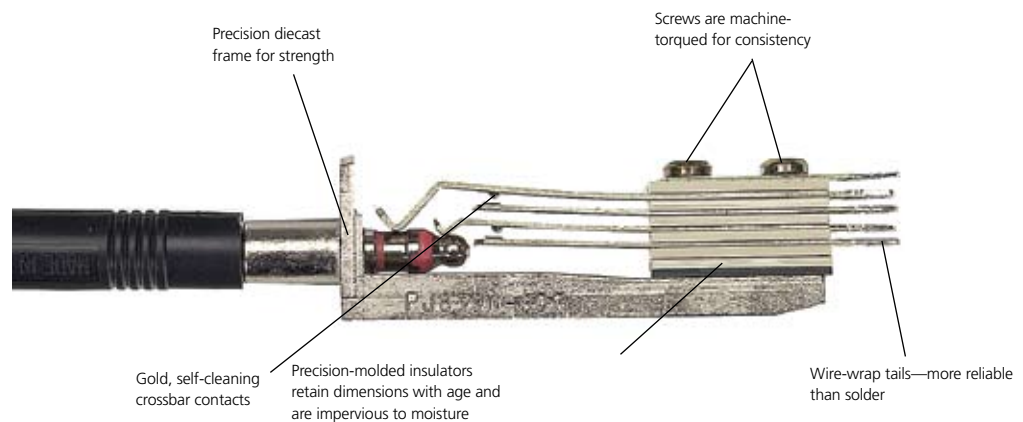
The quality of an audio jack is visible in the details. For example, inside ADC's jacks, the gold, self-cleaning crossbar contacts are designed to wipe across each other at an angle that removes debris with every plug insertion. Extended spring beams provide greater resilience for long life and firm contact force. Precision-molded insulators do not change dimensions even in tough environments, ensuring consistent spring torque and reliable performance.

Features

- Jacks used in all patch cords are WECCO-standard jacks that adhere to MIL-STD-202F specifications
- Absolutely reliable WECCO alloy #1 gold, self-cleaning crossbar contacts wipe away debris with every insertion
- Solder-free wire-wrap tails prevent intermittents from cold solder joints or flux migration. Far more reliable than solder
- Tested to withstand tough mobile applications, including vibration, temperature (-55°C to 85°C), moisture, and salt air



Longframe Audio Jack
(PJ339W)



Bantam Audio Jack
(PJ839W)



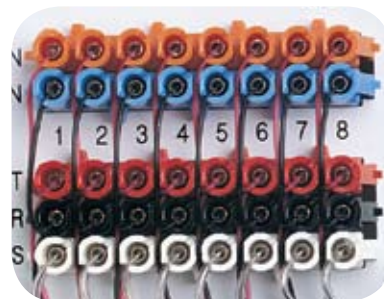
Audio Patching Systems

ProPatch® Professional (PPA and PPB) Series

Time-saving QCP II and QCP IV Termination Systems

Innovative QCP connectors can really speed up an installation. No need to spend time prepping wires and laboriously soldering and crimping connector pins. Just insert the wire and punch. In one motion you have a reliable gastight connection, even with multiple wires. The unique patented design holds wire far more securely than telco-type punchdowns, preventing intermittents.

MKII panels use QCP II individual terminal insulators, which allow greater density and can be replaced individually. MKIV panels use QCP IV 1x8 terminal blocks insulated on both the front and back of the panel to prevent shorts.



QCP IV Connections

Features

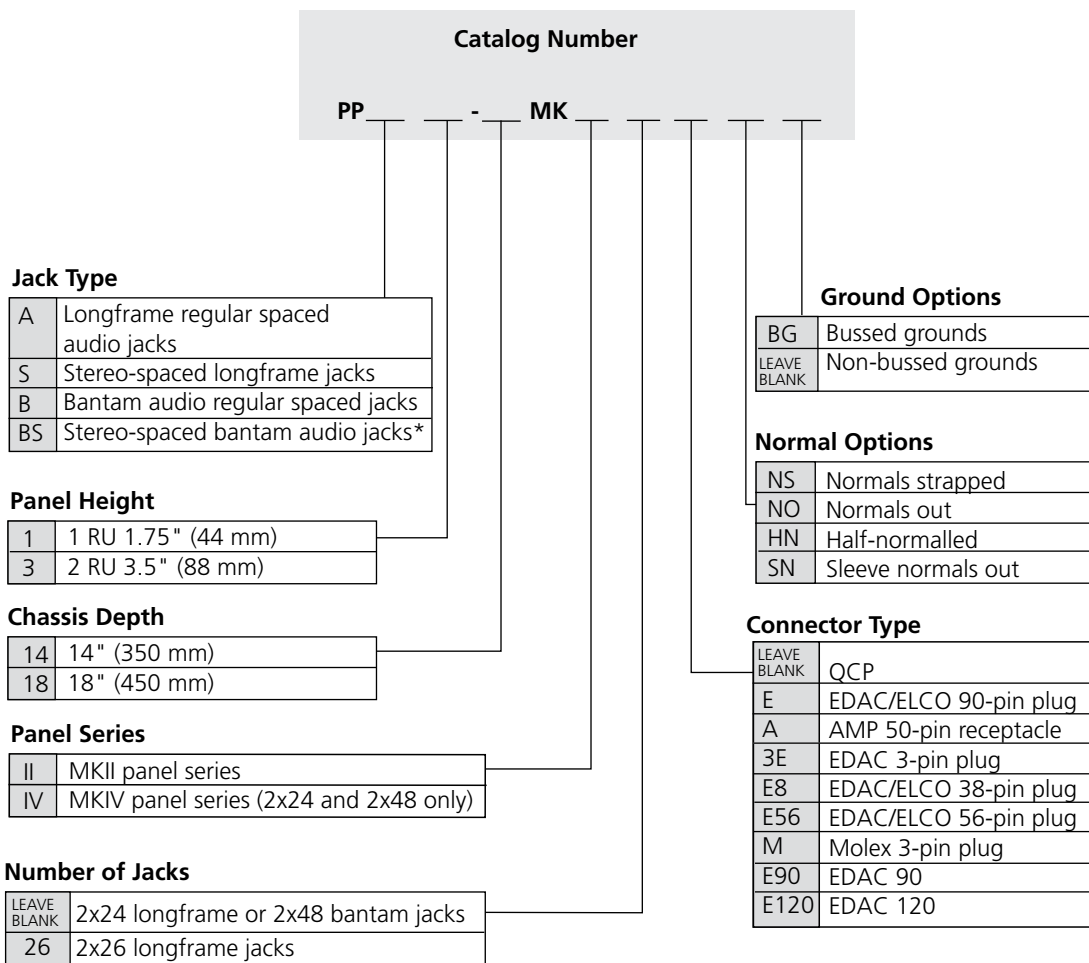
- ADC's exclusive, patented QCP II and QCP IV split-cylinder punchdown termination system is faster and easier to install and more reliable than any other termination system, including solder.
- Dependable, durable, split-cylinder design holds up to three stranded or solid wires, 22 to 26 gauge (0.32 mm to 0.128 mm)
- No intermittents with gastight connections. Uniform split channel width holds each wire firmly, unlike telco punchdowns with V-shaped channels or soldered connections that use flux and may have unreliable solder joints
- Easy prelacing makes installation faster. Color-coding prevents wiring mistakes
- Labor-saving punch terminates and cuts wire in one simple motion. QCP IV installs even faster because you don't have to orient the tool before punching
- Faster and easier changes in circuits or normals than soldered connector systems. Rated for up to 200 insertion/withdrawal cycles
- QCP II terminations are individually mounted and insulated for easy repair or replacement
- QCP IV terminations are mounted in 1x8 blocks insulated on both sides of the panel. This design, plus the recessed conductors, eliminates shorts



Audio Patching Systems

ProPatch® Professional (PPA and PPB) Series

Patchbays Ordering Information



Example: PPA3-14MKII26NOBG — ProPatch 2 RU panel, 14" deep with QCP II punchdowns, 2x26 array of longframe jacks, normals out audio normalling, and bussed grounds.

Note: For mobile applications rear chassis support is recommended. (Catalog number: SBK-1 and SBK-2)

Digital Audio

Precision 110 Ω digital audio patch cords are listed on page 71.
Use 110 Ω 1% resistors on normals of unstrapped jacks (normals out version only).

* For information on this and other custom configurations, please contact ADC.

Connectorized panels are not supplied with mating shell kits (see Accessories, page 76)



Audio Patching Systems

ProPatch® Professional (PPA and PPB) Series

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Audio

Ordering Information

Description	Catalog Number
Patchbays	
Normals Out	
1.75" 2x24 longframe, QCP II, 14" chassis *	PPA1-14MKIINO
3.50" 2x24 longframe, QCP IV, 14" chassis	PPA3-14MKIVNO
3.50" 2x26 longframe, QCP II, bussed grounds, 14" chassis**	PPA3-14MKII26NO
3.50" 2x26 longframe, QCP II, 18" chassis**	PPA3-18MKII26NO
3.50" 2x24 longframe, QCP IV, 18" chassis	PPA3-18MKIVNO
3.50" 2x48 bantam, QCP II, 14" chassis	PPB3-14MKIINO
3.50" 2x48 bantam, QCP II, 18" chassis	PPB3-18MKIINO
3.50" 2x48 bantam, QCP II, bussed grounds, 14" chassis	PPB3-14MKIINOBG
Normals Strapped (Fully Normalled)	
1.75" 2x24 longframe, QCP IV, 14" chassis	PPA1-14MKIVNS
1.75" 2x26 longframe, EDAC 90-pin plug, 14" chassis	PPA1-14MKII26ENS
3.50" 2x24 longframe, QCP IV, 14" chassis	PPA3-14MKIVNS
3.50" 2x24 longframe, QCP IV, 18" chassis	PPA3-18MKIVNS
3.50" 2x26 longframe, QCP II, 14" chassis**	PPA3-14MKII26NS
3.50" 2x26 longframe, EDAC 90-pin plug, 14" chassis	PPA3-14MKII26ENS
3.50" 2x48 bantam, QCP IV, 14" chassis	PPB3-14MKIVNS
1.75" 2x48 bantam, EDAC 90-pin plug, 14" chassis	PPB1-14MKIIENS
3.50" 2x48 bantam, EDAC 90-pin plug, 14" chassis	PPB3-14MKIIENS
Half-Normals (Monitor top row)	
1.75" 2x24 longframe, QCP IV, 14" chassis	PPA1-14MKIVHN
1.75" 2x26 longframe, QCP II, 14" chassis**	PPA1-14MKII26HN
1.75" 2x24 longframe, EDAC 90-pin plug, 14" chassis	PPA1-14MKII24EHN
3.50" 2x24 longframe, QCP IV, 14" chassis	PPA3-14MKIVHN
3.50" 2x24 longframe, QCP IV, 18" chassis	PPA3-18MKIVHN
3.50" 2x26 longframe, EDAC 90-pin plug, 14" MKII style chassis**	PPA3-14MKII26EHN
1.75" 2x48 bantam, EDAC 90-pin plug, 14" MKII style chassis	PPB1-14MKIIEHN
3.50" 2x48 bantam, QCP IV, 14" chassis	PPB3-14MKIVHN
3.50" 2x48 bantam, EDAC 90-pin plug, 14" chassis	PPB3-14MKIIEHN
No Normals (Requires looping plug or patch cord)	
1.75" 2x24 longframe, QCP IV, 14" chassis	PPA1-14MKIVNN
3.50" 2x48 bantam, QCP IV, 14" chassis	PPB3-14MKIVNN
Sleeve Normals Brought Out	
3.50" 2x24 longframe, QCP IV, 14" chassis	PPA3-14MKIVSN
3.50" 2x26 longframe, QCP II, 14" chassis**	PPA3-14MKII26SN

* 1 RU 2x24 normals out panel only available in QCP MKII version.

** 2x26 panels only available in QCP MKII versions.

Note: For mobile applications, rear chassis support is recommended. Order ProPatch support bar kit (Catalog Number: SBK-1 or SBK-2); mounts on rear rack rails to support rear of panel.

Note: Bussed ground option available on all panels; please contact ADC for details.



Audio Patching Systems

ProPatch® Umbilical (BJF) Series

Jackfields

ADC broadcast jackfields simplify the task of wiring rack-mounted panels by separating the jacks from the backplane. The jack panel mounts on the front of the rack, and the Ultra Patch termination panel mounts on the rear with an umbilical connecting the two. This arrangement makes the termination wiring more accessible so you don't have to reach into the rack to make connections. In addition, the totally solderless wiring of both panels provides more reliable connections than solder, ensuring dependable service.

Options available include panel sizes, longframe or bantam jacks, choice of normalling, standard or custom umbilical length, and QCP II, QCP IV, or EDAC rear panel connectors. All BJF series panels now feature AES digital/audio with precision 110 Ω low capacitance shielded twisted pair cable. MKII panels include fixed cable trays. MKIV panels have adjustable cable bars and white backplanes for better visibility.

Features

Choice of Panel and Umbilical Sizes

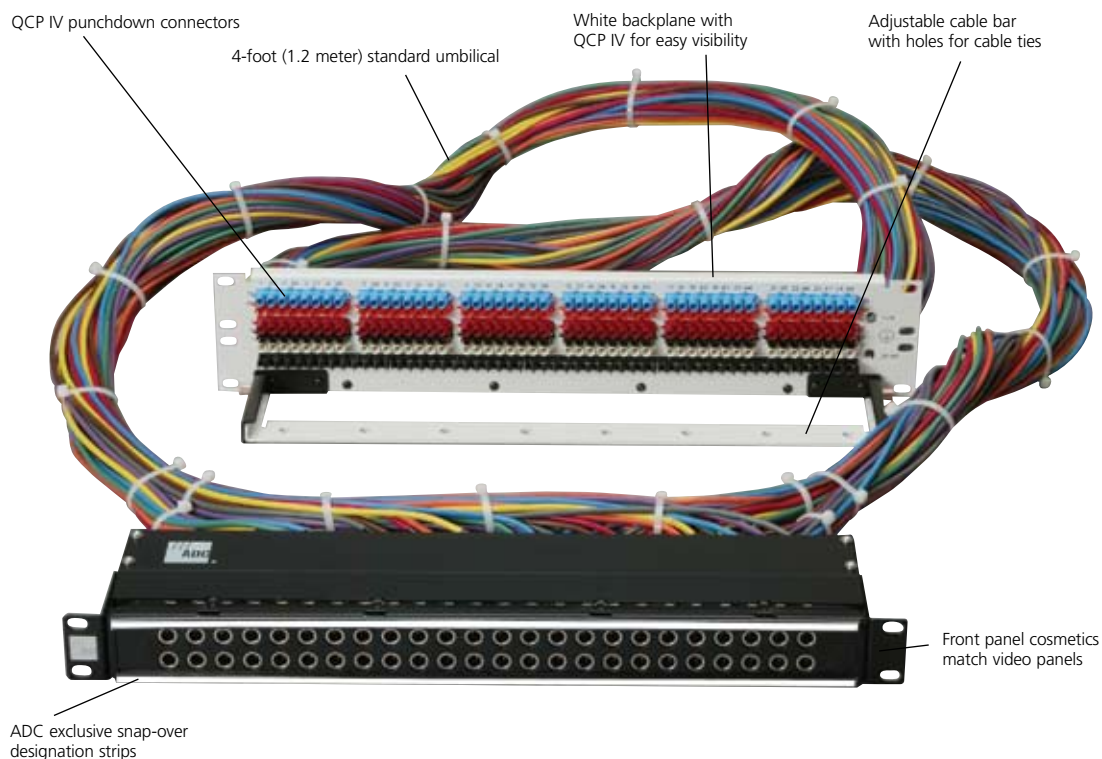
- 1 RU jack panel (1.75"/44 mm) with 2 RU (3.5"/88 mm) or 3 RU (5.25"/132 mm) Ultra Patch termination panel
- 2 RU jack panel (3.5"/88 mm) with 3 RU (5.25"/132 mm) Ultra Patch termination panel
- Standard 4-foot (1.2 meter) umbilical or custom lengths available

Longframe or Bantam Jacks

- Longframe jacks in 2x24 or 2x26 array evenly spaced
- Bantam jacks in 2x48 array evenly spaced

Digital Audio Cable

- Precision 110 Ω digital audio cable meets and exceeds stringent AES requirements

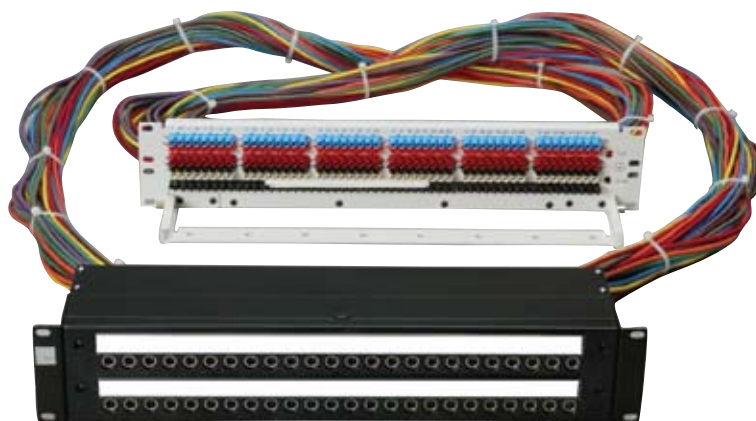


1 RU Longframe/QCP IV Jackfield
(BJF103-4MKIV)



Audio Patching Systems

ProPatch® Umbilical (BJF) Series



2 RU Longframe/QCPII Ultra Patch
(BJF203-4MKIV)

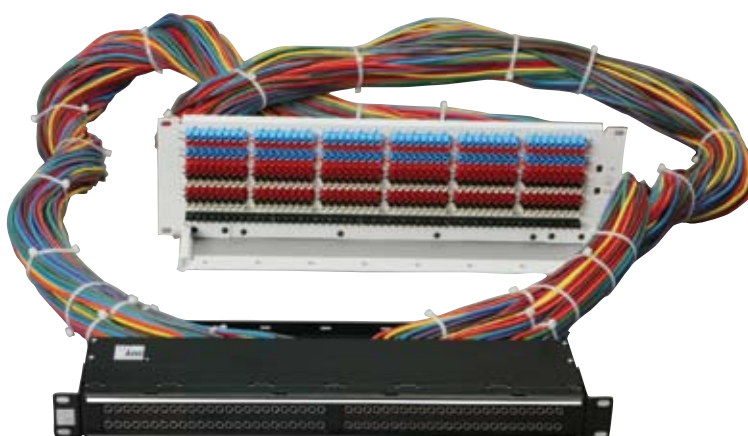
Options

Choice of Terminations

- QCP II or QCP IV punchdown connectors
- Stub end cut to length
- Adjustable strain relief cable bar included standard on Ultra Patch MKIV. Fixed tray on MKII

Full Range of Normalling Options

- No normals
- Normals strapped (fully normalised)
- Half-normalled (monitor top row)
- Normals brought out
- Sleeve normals brought out
- Sleeves strapped
- Bussed grounds



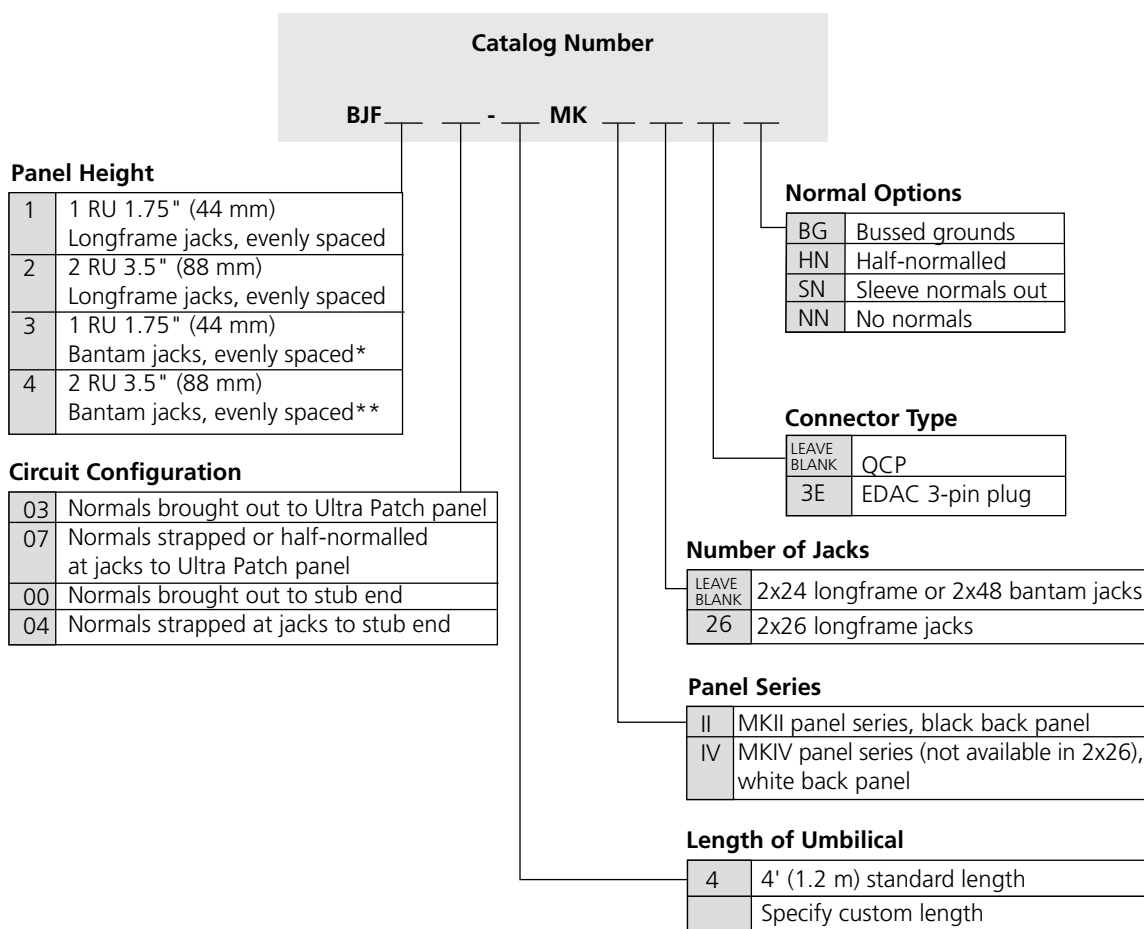
1 RU Bantam/QCPIV Ultra Patch
(BJF303-4MKIV)



Audio Patching Systems

ProPatch® Umbilical (BJF) Series

Jackfields Ordering Information



*For stereo-spaced, add "S" to the catalog number (For example, BJFSXXX-)

** For information on these and other custom configurations, please contact ADC.

Note: Use 110 Ω 1% resistors on normals of unstrapped jacks. (Normals out versions only)



Audio Patching Systems

ProPatch® Umbilical (BJF) Series

Ordering Information

Description	Catalog Number
Jackfields*	
Normals Out	
1.75" 2x24 longframe, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF103-4MKIV
1.75" 2x26 longframe, 4' umbilical, 3.5" QCP II Ultra Patch*	BJF103-4MKII26
3.50" 2x24 longframe, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF203-4MKIV
3.50" 2x26 longframe, 4' umbilical, 3.5" QCP II Ultra Patch*	BJF203-4MKII26
1.75" 2x48 bantam, 4' umbilical, 5.25" QCP IV Ultra Patch	BJF303-4MKIV
3.50" 2x48 bantam, 4' umbilical, 5.25" QCP IV Ultra Patch	BJF403-4MKIV
Normals Strapped (Fully normalled)	
1.75" 2x24 longframe, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF107-4MKIV
1.75" 2x26 longframe, 4' umbilical, 3.5" QCP II Ultra Patch*	BJF107-4MKII26
3.50" 2x24 longframe, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF207-4MKIV
3.50" 2x26 longframe, 4' umbilical, 3.5" QCP II Ultra Patch*	BJF207-4MKII26
1.75" 2x48 bantam, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF307-4MKIV
3.50" 2x48 bantam, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF407-4MKIV
Half-Normals (Monitor top row)	
3.50" 2x24 longframe, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF207-4MKIVHN
3.50" 2x26 longframe, 4' umbilical, 3.5" QCP II Ultra Patch*	BJF207-4MKII26HN
1.75" 2x24 longframe, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF107-4MKIVHN
1.75" 2x26 longframe, 4' umbilical, 3.5" QCP II Ultra Patch*	BJF107-4MKII26HN
1.75" 2x48 bantam, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF307-4MKIVHN
3.50" 2x48 bantam, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF407-4MKIVHN
No Normals (Requires looping plug or patch cord)	
3.50" 2x48 bantam, 4' umbilical, 3.5" QCP IV Ultra Patch	BJF407-4MKIVNN
Sleeve Normals Brought Out	
3.50" 2x24 longframe, 4' umbilical, 3.5" QCP IV Ultra Patch*	BJF203-4MKIVSN
3.50" 2x48 bantam, 4' umbilical, 5.25" QCP IV Ultra Patch	BJF403-4MKIVSN

* 2x26 panels only available in QCP MKII versions.

Custom panel configurations are available; please contact ADC.

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Audio Patching Systems

ProPatch® Lite (PPA and PPB) Series

Low-Cost Solder-Style Panels

ProPatch® Lite is ADC's line of low-cost, do-it-yourself audio patchbays. For ADC quality on a budget, this is the answer. Features include a steel frame with sturdy molded insert for holding jacks, a removable steel strain relief cable bar, ADC's outstanding quality WECO-standard bantam or longframe jacks with solder tails ready to wire, and choice of normalling configurations. Models are available in one and two rack unit heights with designation strips and standard jack spacing.

Features

Sturdy Construction

- Steel frame with durable molded insert for holding jacks
- Removable steel cable bar

Two Panel Sizes

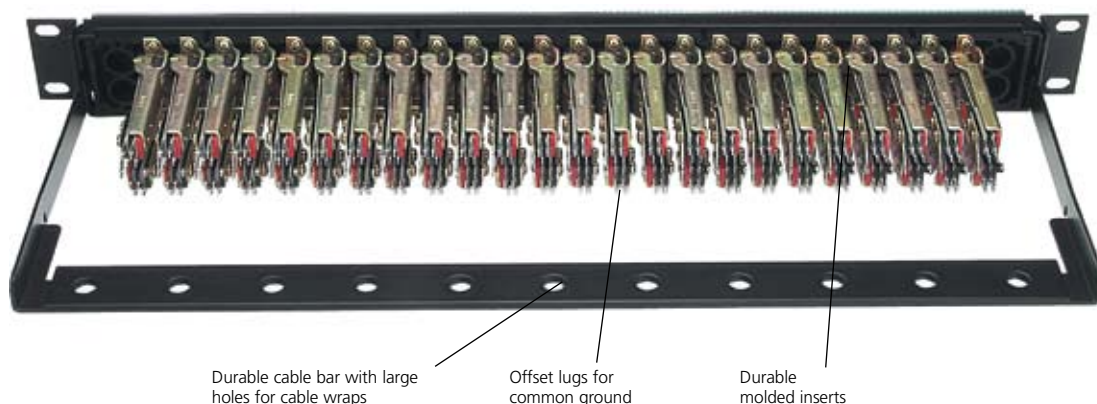
- 1 RU (1.75"/44 mm)
- 2 RU (3.5"/88 mm)

Longframe or Bantam Jacks

- Longframe jacks, 2x24 or 2x26 array, WECO-standard with solder tails ready for wiring
- Bantam jacks, 2x48 array, WECO-standard with solder tails ready for wiring
- Several ground lug styles

Choice of Normals

- Normals out
- Pre-half-normalled, common ground
- Pre-normals strapped, common ground
- Sleeve normal



1RU Stereo-Spaced Longframe 2x24 Panel
(rear view)
(PPA1)



Audio Patching Systems

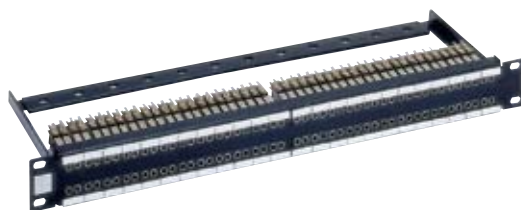
ProPatch® Lite (PPA and PPB) Series

Low-Cost Solder-Style Panels

Ordering Information

Description	Catalog Number
Longframe Panels	
1.75" 2x24 longframe jacks with solder lugs, loaded with 48 PJ339 jacks (see page 61)	PPA1
Half-normalled, common ground	PPA1-HN-CG
Normals strapped, common ground	PPA1-NS-CG
1.75" 2x26 longframe jacks with solder lugs, loaded with 52 PJ339 jacks (see page 61)	PPA1-26
Half-normalled, common ground	PPA1-26-HN-CG
Normals strapped, common ground	PPA1-26-NS-CG
1.75" 2x24 longframe solder jacks with offset ground lugs	PPA1-L204
3.5" 2x24 longframe jacks with solder lugs, loaded with 48 PJ339 jacks (see page 61)	PPA3
Half-normalled, common ground	PPA3-HN-CG
Normals strapped, common ground	PPA3-NS-CG
3.5" 2x26 longframe solder jacks sleeve normal, loaded with 52 PJ242 jacks	PPA3-26-SN
Bantam Panels	
1.75" 2x48 bantam jacks with solder lugs, loaded with 96 PJ839 jacks (see page 61)	PPB1
Half-normalled, common ground	PPB1-HN-CG
Normals strapped, common ground	PPB1-NS-CG
3.5" 2x48 bantam jacks with solder lugs, loaded with 96 PJ839 jacks (see page 61)	PPB3
Half-normalled, common ground	PPB3-HN-CG
Normals strapped, common ground	PPB3-NS-CG
3.5" 2x48 bantam jacks with solder lugs, sleeve normals, loaded with 96 PJ824 jacks	PPB3-SN

For information on this and other custom configurations, please contact ADC.



1 RU Stereo-Spaced Bantam 2x48 Panel
(PPB1)



1 RU Longframe 2x24 Panel
(PPA1-24-NS-CG)



Audio Patching Systems

Accessories

Whatever the accessory you need for your audio patchbay, the quality source is ADC. Products available include patch cords, connectors and jacks, designation strip kits, and more.

High-Performance Audio Patch Cords

ProPatch® audio patch cords are engineered for flawless performance and durability. Nickel plating protects plugs against corrosion and ensures smooth insertion, and the exclusive dielectric compound between conductors provides low capacitance for the best signal performance. The flexible cord drapes neatly without kinking, and the plug is molded directly onto the cord for outstanding strain relief.

All ADC patch cords are designed to meet MIL-P642 and are machined after molding for perfect concentricity, ensuring consistent, reliable jack operation.



Features

- Meets demanding MIL-J641 and MIL-P642 standards for plug compliance
- Precision WECO 310 (longframe) and bantam plugs assure proper jack performance
- Quad-star construction for low noise performance
- Models for analog or digital audio
- Standard lengths from .6 m (2 feet) to 1.8 m (6 feet). Other lengths available on request
- Colors include red, green, blue, or black. Some cords also available in yellow or gray
- Conversion patch cords for RS-422 to RJ45. (Conversion patch cords for longframe to bantam, single to dual, are also available. Please contact ADC.)

Catalog Number

Color

R	Red
G	Green
B	Blue
Y	Yellow*
BK	Black
GY	Gray*

DA	Digital audio (black only)
----	----------------------------

Cable Length

LEAVE BLANK	Longframe plug
B	Bantam plug

Cable Length

2	.6 m (2')
3	.9 m (3')
4	1.2 m (4')
6	1.8 m (6')

* Non-standard colors. Please contact ADC for these and other non-standard colors.

Dual patch cords are available. Add a "2" after length. For example, R22 = Red (2') dual longframe
R22B = Red (2') dual bantam



Audio Patching Systems

Accessories

Individual longframe and bantam plugs are available featuring low capacitance injection-molded insulators and precision-machined brass or nickel-plated conductors for smooth insertion and best signal performance. Wire connections are made via miniature screw terminals. These plugs provide the best fit and performance to match ADC patch panels.

Longframe Audio Plugs

Ordering Information

Description	Color	Catalog Number
Three-Conductor Longframe Plugs (field installable)		
Single	Red	PJ051R
Single	Black	PJ051B
Single, nickel-plated	Black	PJ051B-MN
Looping Plugs – internal connections tie together corresponding tip, ring and sleeve conductors to allow looping of jack circuits	Black	PJ4
Hole Plugs – for longframe panels to fill unused jack positions	Black	PJ29

Bantam Audio Plugs

Ordering Information

Description	Color	Catalog Number
Three-Conductor Bantam Plugs		
Single plug; attachable plug; two lugs, shell mounting screw and two lug attachment screws supplied	Red	PJ777R
	Black	PJ777B
Dual plug; attachable plug; four lugs, two shell mounting screws and four lug attachment screws supplied	Black	PJ778B
Looping Plugs – Used to “loop” or patch adjacent jack circuits; plug conductors strapped internally; wired tip to tip, ring to ring and sleeve to sleeve	Black	PJ746
Hole Plugs – For bantam panels to fill unused jack positions	Red	PJ729R
	Black	PJ729B
Single Bantam Circuit Guard Plugs – To identify or block entry to critical circuits; does not actuate circuit	Red	PJ925R
	White	PJ925W
	Black	PJ925B



Audio Patching Systems

Accessories

Longframe and Bantam Audio Jacks

If anything differentiates ADC patching products from the competition it is the outstanding quality of our jacks. Consistent quality and durability are built into every jack we make. Our jacks meet WECCO and MIL-STD-202F standards and include gold, self-cleaning contacts, extended spring beams to prevent metal fatigue and poor contact, and precision-molded insulators. For a closer look at the outstanding design of our audio jacks, see the overview on page 6.

PJ339 Single Longframe Jack (2 normally closed contacts)

The PJ339 is a three-conductor, single, longframe jack with two normally closed contacts and solder tails. PJ339L has offset solder tails, and PJ339W is the wire-wrap version.



Longframe Audio Jack
(PJ339W)

PJ242 Single Longframe Jack (3 normally closed contacts)

The PJ242 is a three-conductor, single, longframe jack with three normally closed contacts and solder tails. PJ242W is the wire-wrap version.

PJ839 Single Bantam Jack (2 normally closed contacts)

The PJ839 is a three-conductor, single, bantam jack with two normally closed contacts. The PJ839N-SDR comes with solder tails, and the PJ839WN is the wire-wrap version.



Bantam Audio Jack
Shown with Plug Inserted
(PJ839W)

PJ824 Single Bantam Jack (3 normally closed contacts)

The PJ824 is a three-conductor, single, bantam jack with three normally closed contacts. The PJ824N comes with solder tails, and the PJ824WN is the wire-wrap version. (Note that these jacks extend beyond the periphery of a 1.75" 1 RU panel.)



Audio Patching Systems

Accessories

Longframe and Bantam Audio Jacks

Ordering Information

Description	Catalog Number
Longframe Jacks	
3-conductor – 2 normally closed contacts, solder tails, frame style A, stack height .531" (13.49 mm), WECO 239A equivalent	PJ339
3-conductor – 2 normally closed contacts, solder offset lug, frame style A, stack height .531" (13.49 mm)	PJ339L
3-conductor – 2 normally closed contacts, wire-wrap, frame style A, stack height .578" (14.68 mm)	PJ339W
3-conductor – 3 normally closed contacts, solder tails, frame style C, stack height .687" (17.45 mm), WECO 242C equivalent	PJ242
3-conductor – 3 normally closed contacts, wire-wrap, frame style C, stack height .687" (17.45 mm), WECO 242C equivalent	PJ242W
Bantam Jacks	
3-conductor – Rear-mount bantam jack, 2 normally closed contacts, solder tails, stack height .602" (15.29 mm)	PJ839N-SDR
3-conductor – Rear-mount bantam jack, 3 normally closed contacts, solder tails, stack height .756" (19.20 mm)	PJ824N
3-conductor – Rear-mount bantam jack, 3 normally closed contacts, wire-wrap, stack height .750" (19.05 mm)	PJ824WN

For printed circuit board jacks, see page 76.



Audio Patching Systems

Accessories

Audio Baluns (also see page 76)

High-quality audio baluns are available for 110 Ω twisted pair to 75 Ω coaxial matching. Matches BNC to male or female XLR connectors.



Shown: **BAL-XLR-BNC-F**
BAL-XLR-BNC-M

Designation Strip Kits

ADC produces designation strip kits for all of our patch panels. For details about kits available for your particular model, please contact the Technical Assistance Center.

QCP and EDAC Tools and Accessories

(Genuine EDAC, manufactured in North America)

Individual punchdown tools and complete tool kits are available for both QCP II and QCP IV connections. The same punchdown tool works for both types, but the tips are different. EDAC connector kits are also available for E120, E90, E56, E38 and E3 connectors—genuine EDAC parts.



LSA PLUS® Punchdown Tool



**EDAC
90-shell Kit**



**EDAC
38-shell Kit**



**EDAC
Crimp Tool**



Q150



Q-115



SLVG-1



QRK-25

QB-2

ProPatch® Cord Holder

The ProPatch cord holder accepts up to 75 video or audio patch cords and mounts on the wall or in a rack. (Note: does not hold CVPC-type patch cords.)



**Patch Cord Holder
(PPH)**



Audio Patching Systems

Accessories

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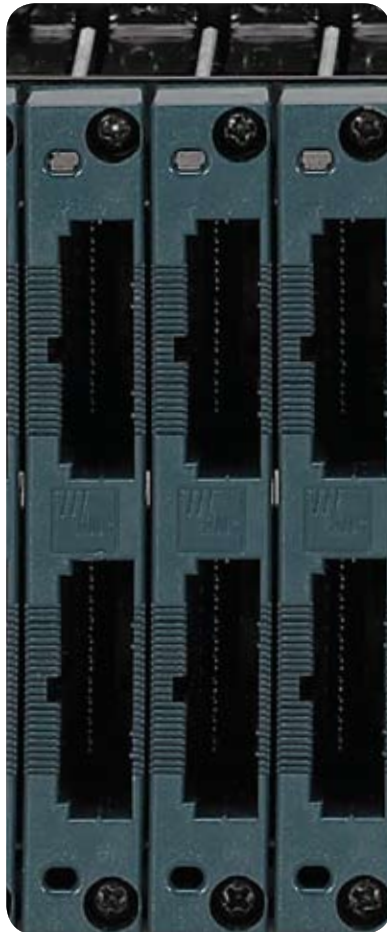
Audio

Ordering Information

Description	Catalog Number
Audio Baluns, 110 Ω to 75 Ω	
BNC to female XLR	BAL-XLR-BNC-F
BNC to male XLR	BAL-XLR-BNC-M
LSA Punchdown Tool	DM-GIGE-TOOL-KIT
QCP Tools	
Impact tool for MKII panels, with tip*	QB-2
Tool for MKIV panels, with tip*	QB-4
Replacement tip for QB-2	QB-2T
Longer replacement tip for QB-2	QB-2LT
Replacement tip for QB-4	QB-4T
Replacement tip for QB4, long	QB-4LT
Manual tool for MKII panels	Q115
QCP tool holder	Q150
QCP Mark II Replacement Kit; Kit includes instructions and the following: 99 QCP contacts, 25 red, black and white insulators, 12 blue and orange insulators	QRK-25
QCP Mark IV Replacement Kit; 2 red, white, black, blue and orange QCP IV (8x1) punchdown assemblies	QRK-25-MKIV
Sleeving Kit; Kit includes 100 pieces of 2.5" (6.35 cm) clear PVC	SLVG-1
EDAC Tools (Manufactured by Paladin)	
Tool for crimping EDAC connector pins	EDAC-CRIMP-TOOL
EDAC pin removal tool	EDAC-EXTRACTION-TOOL
Receptacle Connector Kits (Manufactured by EDAC)	
Kit for EDAC 90-pin, includes 1 shell, 90 crimp-type pins, and hood	EDAC-90P-SHELL
Kit for EDAC 56-pin, includes 1 shell, 56 crimp-type pins, and hood	EDAC-56P-SHELL
Kit for EDAC 38-pin, includes 1 shell, 38 crimp-type pins, and hood	EDAC-38P-SHELL
Kit for EDAC 3-pin, includes 1 shell and 3 crimp-type pins	EDAC-3P-SHELL
Kit for EDAC 3-pin, complete for 2x24 panel	EDAC-3PIN-2X24-KIT
Kit for EDAC 3-pin, complete for 2x26 panel	EDAC-3PIN-2X26-KIT
Kit for EDAC 3-pin, complete for 2x32 panel	EDAC-3PIN-2X32-KIT
Kit for EDAC 3-pin, complete for 2x48 panel	EDAC-3PIN-2X48-KIT
Molex Kits	
Molex kit, 3-pin receptacle	MOLEX-3F-SHELL
Molex kit, 3-pin plug	MOLEX-3P-SHELL
ProPatch® Cord Holder; Holds up to 75 video or audio patch cords (bantam or longframe); mounts on a wall or in a rack; 14"W x 3"D (35.56 x 7.62 cm). Note: does not hold CVPC-type patch cords	PPH
Printed Circuit Board Audio Jacks	
PCB longframe jack, 3-conductor standard	AJ238-1
PCB threaded longframe jack, 3-conductor with nut and washer	AJ238-1T
PCB longframe right angle jack, 3-conductor	AJ339-1
PCB threaded longframe right angle jack, 3-conductor with nut and washer	AJ339-1T

* QCP II and QCP IV tools are identical but the replaceable tips are different.

Data Connectivity Patching Systems



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Data Connectivity Patching Systems

UniPatch® GigE Series

Gigabit Ethernet Patch Panel

ADC has designed a professional broadcast-quality Gigabit (1000 baseT) patching system for demanding professional environments where frequent patching and higher density is required. The system features a high-density 32-port normal-through card frame system to ADC Direct-Edge LSA-PLUS® termination system. Now you can patch Ethernet data properly using reliable durable military-grade jacks rated for 30,000 insertion/withdrawal cycles. The Category 6 rated patch cords are keyed to ensure proper patching.

Compared to other systems employing light duty RJ45 connectors rated at fewer than 500 insertion/withdrawal cycles or bantam jacks that do not switch all signal lines, the UniPatch® GigE module is a significant advance in Ethernet and machine control patching.

The GigE system is a dense pack digital control interface patching system that provides test access, patch, cross-connect and monitor functions in 100 Ω balanced transmission systems. It has a common signal format, bit rate, and operation up to Gigabit Ethernet (1,000 Mbps). The UniPatch GigE system is the choice for carrier-class Ethernet patching where reliability is critical.

Features:

- Category 5e channel compliant
- High-density modular design, 32 circuits per panel
- Available with normal-through (patch by exception) or straight-through modules
- Modular LSA-PLUS® punch down backplane
- Keyed and highly reliable military-grade patch cords, rated to 30,000 cycles
- Available with an easily removable wire management bar
- Cable agnostic (works with any Cat 5e/Cat 6 cable)



VP2232-GIGE



Data Connectivity Patching Systems

UniPatch® GigE Series

Gigabit Ethernet Jack Module

Features:

- Dense pack patching
- Minimum of 30,000 patch cycles
- Normal-through patch by exception
- Modular design (can be removed without disturbing adjacent circuits)
- Gold plated contacts on switches and card edge connectors
- Keyed opening for proper patch cord orientation



DM-GIGE

LSA-PLUS® 8-Circuit Backplane Module

Features:

- Patented LSA-PLUS® termination system modules can be removed individually for easier wiring
- Number designation labels included
- Designation strip and window included for custom labeling
- Designed for solid or stranded wire
- Eliminates the need for additional connectors and connector labor



VPRM-GIGE-LSA
(rear view)

Data



Data Connectivity Patching Systems

UniPatch® GigE Series

Specifications

ELECTRICAL

Characteristic impedance:	100 Ω typical
Voltage rating:	500 Volts AC @ 60 Hz with a trip current of 1 mA for 1 minute
NEXT:	Category 5e channel compliant
FEXT:	Category 5e channel compliant
Contact resistance:	.02 Ω max change post environmental
Insulation resistance:	5000 M Ω min initial

MECHANICAL

Mechanical durability:	30,000 cycles min (front port: dense pack); 50 cycles min (LSA slot)
Insertion force:	7 lbs max
Withdrawal force:	2 lbs min
Patch cord cable bend and twist:	500 cycles min
Dimensions:	2 rack unit

ENVIRONMENTAL

Thermal shock:	-40°C to 65°C operating; -55°C to 85°C non-operating
Moisture resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (salt spray):	MIL-STD-202 Method 101, test condition B
Flammability:	UL 94-VO rated
Vibration:	MIL-STD-202 Method 201
Solvent resistance:	MIL-STD-202 Method 215

FINISH

Sheetmetal panel:	.075 CRS w/ protective black finish
Plastic housings:	ABS/PC, deep blue color
Contact springs:	50 microinch gold plating MIL-G-45204 Type 1
PC board:	FR-4 with gold-plated contacts
Card edge connector:	LSA-PLUS®: 17-position termination block



Data Connectivity Patching Systems

UniPatch® GigE Series

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Ordering Information

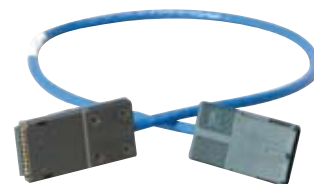
Description	Catalog Number
Gigabit Ethernet Panel	
32-port GigE normalling patch panel	VP2232-GIGE
32-port GigE non-normalling patch panel	VP2232-GIGE-NN
Gigabit Ethernet Jack Module	
2-port GigE normalling jack module: PCB with green masking	DM-GIGE
2-port GigE non-normalling jack module: PCB with black masking	DM-GIGE-NN
Gigabit Ethernet LSA-PLUS® Backplane Module	
Gigabit Ethernet LSA-PLUS® 8-circuit backplane module	VPRM-GIGE-LSA
Gigabit Ethernet and RS422 Cat 6 Patch Cords	
0.6 m (2 ft)	PC-GIGE-2
0.9 m (3 ft)	PC-GIGE-3
1.2 m (4 ft)	PC-GIGE-4
1.8 m (6 ft)	PC-GIGE-6
Chassis	
Empty UniPatch® chassis; color: black	VP2232-BK
Empty UniPatch® chassis; color: gray	VP2232-G
Accessories	
LSA insertion tool and handheld LSA block holder	DM-GIGE-TOOL-KIT
Handheld/rack mountable LSA block holder	DM-GIGE-TOOL
Cable bar	ADCCMR-A



ADCCMR-A



DM-GIGE-TOOL-KIT



PC-GIGE-X

Data



Data Connectivity Patching Systems

Category 5e and 6 RJ Panels

Category 5e and Category 6 solutions are a fully integrated family of precisely tuned components each designed to operate at optimum performance with the other. These solutions are unmatched in data throughput and are supported by the most comprehensive and thorough warranty in the industry: the TrueNet® Zero Bit-Error warranty. The warranty guarantees that the structured cabling system will remain error free for a full 5 years and includes a 20-year electrical performance and free of defect warranty. The result is a remarkable advanced and high performing end-to-end channel guaranteed beyond the typical industry requirements to maximize network throughput and minimize downtime. Numerous component options are available for versatility and flexible adaptation to meet any infrastructure requirement.

Features

Coupler Panels

- Provides feed-through data and voice connectivity on the front and rear
- Extra heavy-duty frames
- .480" designation strips

RJ to IDC Panels

- 1 RU 24-port design provides high-density and flexibility. Available in 2 RU 48-port
- Wire can be terminated with either a LSA-PLUS® or 110 tool
- Rear wire manager included
- Designed to support gigabit Ethernet transmission speeds

RJ to IDC Dynamic Right/Left Angle Panels

- Patented right/left angle eases stress on patch cords allowing for easy cable management
- 45-degree silver-plated IDCs provide secure reliable gas-tight connections
- Wire can be terminated with either a LSA-PLUS® or 110 tool
- Universal A/B wiring label

Shielded Coupler Panels

- High-density 24 ports in 1 rack space
- Standard RJ patch panel interface
- Screened twisted pair connector interfaces and metal shielded panel design
- Gigabit Ethernet (1000 Base-T), T1/E1

Patch Cords

- Impedance matched patch cord for maximum throughput
- Patented AirES® technology
- Up to 28% smaller outer diameter than other patch cords
- UL 1863 listed and Category 5e and Category 6 performance verified





Data Connectivity Patching Systems

Category 5e and 6 RJ Panels

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Ordering Information

Description	Catalog Number	Catalog Number
Coupler Panels	Category 5e	Category 6
1 RU 24-port patch panel; with designation strips	ADCPP24505-DES	ADCPP24606-DES
RJ to IDC Panels		
1 RU 24-port patch panel; silkscreen	6653 1 585-24	6653 1 677-24
2 RU 48-port patch panel; silkscreen	6653 1 585-48	6653 1 677-48
1 RU 24-port patch panel; fascia	6653 1 587-24	6653 1 679-24
2 RU 48-port patch panel; fascia	6653 1 587-48	6653 1 679-48
RJ to IDC Dynamic Right/Left Angle Panels		
1 RU 24-port right/left angle patch panel	PP24AC5ET	PP24AC6T
2 RU 48-port right/left angle patch panel	PP48AC5ET	PP48AC6T
Cable bar manager; black	ADCCMR-A	ADCCMR-A
Shielded Coupler Panels		
24-port ScTP (Screened Twisted Pair) RJ to RJ	ADCPP24RJ5E-S	ADCPP24RJ6-S
Patch Cords		
RJ45-RJ45 plug UTP T568B PVC patch cord	TP5ETA-XXYY	6645-2-78X-YY
RJ45-RJ45 plug UTP T568A PVC patch cord	TP5ETA0XXYY	6645-2-77X-YY
RJ45-RJ45 plug UTP crossover PVC patch cord	TP5ETACXXYY	6645-2-79X-YY

X = Color: 0 = White, 1 = Blue, 2 = Red, 3 = Yellow, 4 = Green, 7 = Gray

YY = Length: 04 = 4 ft, 07 = 7 ft, 10 = 10 ft, 15 = 15 ft, 25 = 25ft, 50 = 50ft

Contact ADC for custom lengths and colors.

Data



Data Connectivity Patching Systems

FireWire® Panels

ADC continues its leadership role in broadcast connectivity with the development of the 1394a FireWire® patch panel. The panel accommodates 24 ports in one rack unit and mounts in standard 19-inch racks. The panel offers customers a passive interconnection solution for their digital video editing needs. Industry-compatible six-pin IEEE 1394a connectors on both the front and rear of the panel allow customers to interconnect cameras, servers, workstations, and non-linear editing suites via FireWire at 400 Mbps bandwidth. The result is increased flexibility and productivity without sacrificing performance and reliability.

Features

IEEE 1394a FireWire Panels

- IEEE 1394a compatible six-pin connectors
- 400 Mbps bandwidth
- High-density, 24 ports in one rack unit
- Plated panel housing to facilitate superior shielding and grounding
- Designation and port numbering



VI-124-1394



VI-112-SB-1394

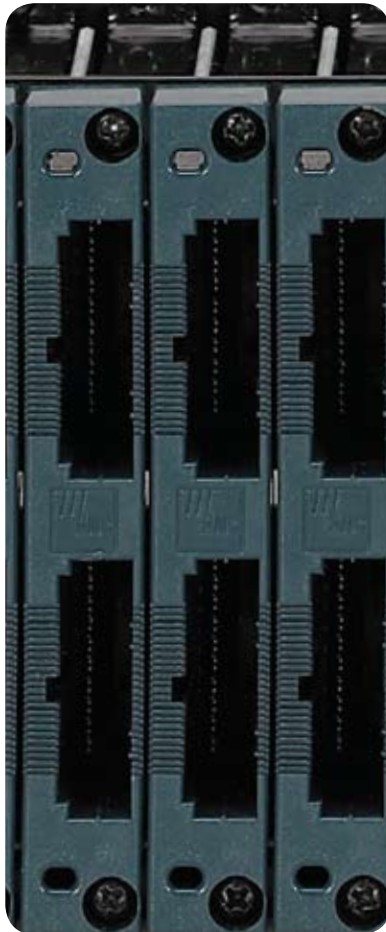
Ordering Information

Description	Catalog Number
IEEE 1394a FireWire Panels	
1 RU 24-port 1394a compatible FireWire patch panel	VI-124-1394
1 RU 12-port 1394a compatible Firewire patch panel	VI-112-SB-1394

Note: FireWire® is a registered trademark of the 1394 Trade Association



UniPatch® Modular System

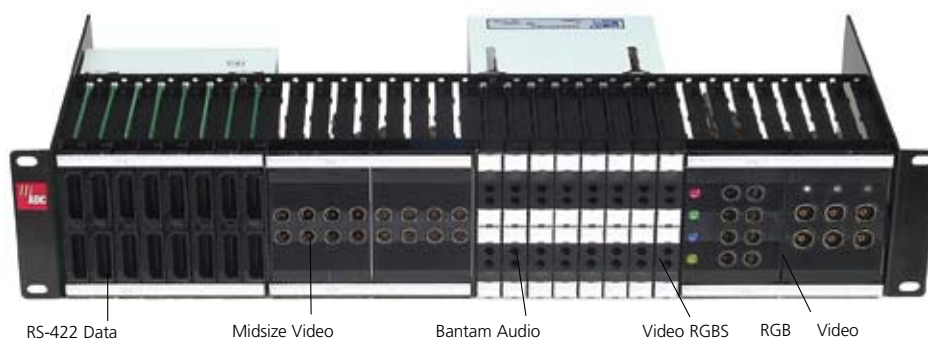


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UniPatch® Modular System

Overview



Loaded UniPatch Chassis

The UniPatch® modular patching system with universal chassis allows you to combine data, audio, and video patching modules in a single two-rack-unit modular panel. Order a mix of jack and backplane modules to create a totally custom patching system, or order a preconfigured panel RS-422 data jacks. You can start with only a few modules and add or change modules as needed. The universal chassis with mix-and-match jack and backplane modules provides the ultimate in flexibility.

Modular Chassis for Unprecedented Flexibility

Features

- Jacks and backplanes have a modular design and fit into the rugged high-density card cage chassis. Just plug in a module to add more jacks or backplane connectors
- Modularity lets you start small and add modules and cards as needed
- Individual circuits are easily replaced without disturbing other circuits
- Backplanes available in high-density 64-circuit bantam audio, high-density 32-port data, standard-density 24-port data, and video options
- Gold-plated card edge connectors tested to withstand heavy use and vibration
- Shallow 7" deep chassis is perfect for mobile applications

Mix-and-Match Plug-in Jack Modules

The following modules (details on following pages) may be assembled on site in mix and match combinations. Data and bantam modules may be ordered in a fully loaded preconfigured chassis.

Features

- Category 3 compliant RS-422 modules for demanding professional data patching applications
- Bantam audio modules in user-selectable normalised configurations
- Video modules for analog, SD, HD, and analog component
- AES 110 Ω to 75 Ω coaxial baluns
- BNC bulkhead feedthroughs
- Category 5, 5e and 6 data patching



UniPatch® Modular System

Backplane Options (mix-and-match)

Ten different backplane connector types are available, and because they come in modular units, they can be mixed and matched like the jack modules. Each backplane supports up to eight jack modules.

Features

- Available modules:
 - Dsub9 connectors
 - AMP Champ 50-pin receptacle
 - EDAC 3-pin plug
 - EDAC 90-pin plug
 - QCP MKII for data 20x8
 - QCP MKII for audio 12x8



**Dsub9, RS-422
Rear Module
(for data)**
(VPRM-D9-W)



**AMP 50-Pin Receptacle
Rear Module
(for data)**
(VPRM-A50-W)



**EDAC 3-pin
Rear Module
(for audio)**
(VPRM-BAN-E3)



**EDAC 90-Pin
Rear Module
(for data)**
(VPRM-E90-W EDAC)



**QCP MKII
Rear Module
(for data)**
(VPRM-MKII-W)



**QCP MKII
Rear Module
(for audio)**
(VPRM-BAN-MKII)



Unipatch Modular Systems

GigE Modules

Gigabit Ethernet Jack Module

Features:

- Dense pack patching
- Minimum of 30,000 patch cycles
- Normal-through patch by exception
- Modular design (can be removed without disturbing adjacent circuits)
- Gold-plated contacts on switches and card edge connectors
- Keyed opening for proper patch cord orientation



DM-GIGE

LSA-PLUS® 8-Circuit Backplane Module

Features:

- Patented LSA-PLUS® termination system modules can be removed individually for easier wiring
- Number designation labels included
- Designation strip and window included for custom labeling
- Designed for solid or stranded wire
- Eliminates the need for additional connectors and connector labor



VPRM-GIGE-LSA
(rear view)

Note: For complete configuration and ordering information, please refer to Data Section.



UniPatch® Modular System

RS-422 Modules

The UniPatch® Category 3 compliant RS-422 module raises the standard in machine control patching with its quality and robust design. Now you can patch machine control data properly using reliable, durable, military-grade jacks rated for 30,000 insertion/withdrawal cycles. Each circuit switches all ten pins, making the module fully SMPTE 207M compliant. Compared to other systems employing light-duty RJ45 connectors rated at fewer than 500 insertion/withdrawal cycles or bantam jacks that do not switch all signal lines, the UniPatch RS-422 module is a significant advance in machine control patching.



Features

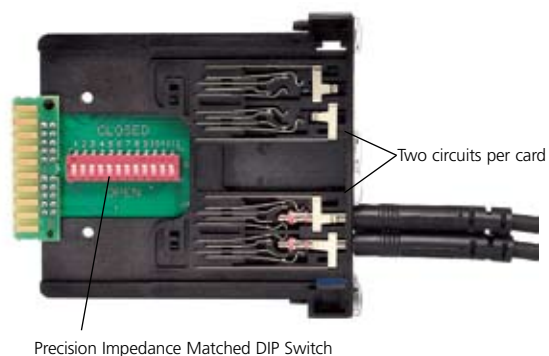
- The standard in professional data patching
- Durable military-grade switch system rated for 30,000 insertion/withdrawal cycles. Unlike RJ45 systems, suitable for heavy daily professional use.
- Fully SMPTE 207M compliant circuits switch all ten pins, unlike bantam systems, which do not switch all ground pins, potentially causing problems
- Tough military-grade, gold-plated switch with long cantilever beam springs and unique self-wiping contacts ensures against premature wear and provides positive contact force
- RS-422 cards offer the highest density available. Up to 32 modules in two rack units for 33 percent greater density
- Normalled or non-normalled cards available
- Modular termination options: Dsub9, DB-25, EDAC 90-pin plug, QCP II, Ultra Patch, standard-density, 24 per frame, or Dsub9 high-density, 32 per frame (requires thin shell strain relief)
- Keyed for proper patch cord orientation
- Category 3 compliant for 10 Base-T data



UniPatch® Modular System

Bantam Audio Modules

The bantam audio jack modules for the UniPatch® system are perfectly designed for professional digital and analog audio applications. Up to 32 modules plug into the UniPatch chassis to provide a 64-circuit (128 jacks) configuration when fully loaded, matching typical router configurations. Each module contains two circuits and four WECO-standard precision bantam jacks designed for long life. High-performance switches allow flexible normalling and grounds for each circuit. Large .440" x .325" designations provide enough room for three lines of text.



Features

- High-density, selectable normals, and excellent reliability
- 33 percent higher density than conventional frame-type bantam bays. Up to 32 cards in a frame with 2 circuits (4 jacks) per card for a total of 64 circuits (128 jacks)
- 32-across spacing exactly matches typical router configurations and provides larger designation area
- Switch-selectable normals and grounds for each circuit: normals strapped (NS), half-normal (HN), bussed ground (BG), or no normals (NN)
- WECO-standard jacks meet or exceed MIL-STD-202 for mechanical durability as well as corrosion, salt spray, thermal shock, moisture resistance, and vibration
- Precision-molded housing and sturdy, integrated all metal springs rated for 10,000 insertion/withdrawal cycles. Gold crossbar, self-cleaning contacts ensure a positive connection
- Modular termination options: QCP II, EDAC 3-pin plug, EDAC 90-pin plug, DB-25, AMP Champ 50-pin receptacle, or QCP IV with 4-foot umbilical Ultra Patch panel
- Snap-on designation holders accept individual labels without tools; conventional chassis-wide designation strips are also available. Large designations provide enough room for three lines of text
- Fully compliant 110 Ω circuit board meets demanding AES specifications



UniPatch® Modular System

Video Modules

ADC offers a full line of UniPatch® video patching modules, making it easy to assemble a custom video patch panel for any application. Modules are available for analog, SD, HD, or component video. Included in the selection of jacks are the standard size SVJ, midsize MVJ, and MUSA SMJ-series HD jacks for outstanding performance at high-definition data rates and beyond.



Standard Size Video Module
also available with CJ2020N75
terminated single jacks
(VM-2014-BK)



Standard Size HD Video Module
(VM-SVJ-BK)



Midsize HD Video Module
(VM-MVJ-BK)



RGBHV Video Module
(VM-RGBHV-MVJ-BK)



RGB, P, P, Y HD Video Module
(VM-RGB-MVJ-BK)

Features

- Standard jacks mount 24 across, midsize jacks mount 32 across
- Standard-size, HD video modules contain SVJ-2 normalled-through Super Video Jacks with or without termination
- Standard size straight-through modules contain CJ2014N jacks without termination or CJ2020N-75 jacks with termination
- Midsize HD video modules contain MVJ-3 normalled-through Super Video Jacks with or without termination
- Midsize straight-through modules contain CJ3014/4014 jacks without termination or CJ3014N-75/4014N-75 jacks with termination
- MUSA modules contain SMJ-2100 HD-rated MUSA standard jacks.
- Modules are available for analog component video in the following configurations: RGB, P, P, Y, RGBS, and RGBHV
- Large designations snap on without tools providing enough space for four rows of text

All modules provided with colored inserts to allow the user to customize for any use.



UniPatch® Modular System

AES Balun Modules

The patented AES 110 Ω to 75 Ω balun modules provide precision impedance matching for interfacing balanced twisted pair AES audio to unbalanced coaxial audio. Eliminate the nuisance of XLR soldering and the mess of baluns hanging from equipment. Replace them with this clean, simple solution.



AES 110 Ω to 75 Ω Converter
(AM-411075-E3-FF)

Features

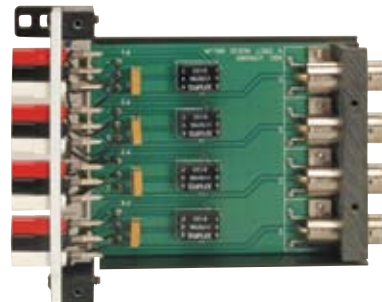
- Mounts on side of equipment rack with velcro or can be rack mounted
- Modules contain four circuits for up to 64 circuits per 2 RU chassis
- Works with quick-to-install QCP punchdown termination modules or EDAC 3-pin plug
- 1 Vp-p plug-in pad is available for equipment that cannot accept high-input voltages. Plug-in pad feature allows each circuit to be tailored for 1 Vp-p operation in 1dB increments to -20dB
- New splitter module provides 2-in/4-out passive split/110 Ω to 75 Ω converter



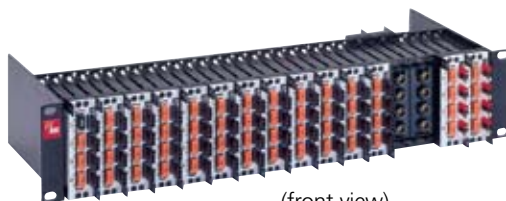
AES 110 Ω to 75 Ω Converter
(AM-411075-MKII)



AES 2:4 Splitter
(AM-2110-475-E3)



**Precision Transformers,
Glass Epoxy Circuit Board,
True 75 Ω BNC Connectors**



(front view)



(rear view)

UniPatch System fully loaded with 16 AES balun modules for 64 110-75 Ω circuits
(allows modules to be mounted either way)
For in-line baluns, see page 75



UniPatch® Modular System

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Ordering Information

Description	Catalog Number
Empty Chassis	
Empty UniPatch® chassis, black, supplied with VP-DES-343-32 kit	VP2232-BK
Empty UniPatch chassis, gray, supplied with VP-DES-343-32 kit	VP2232-G
Bantam Audio Fully Loaded Chassis	
64-circuit loaded system QCP II, black*	VP2232-BANQCP-BK
64-circuit loaded system EDAC 3-pin plug, black*	VP2232-BANE3-BK
RS-422 Data Fully Loaded Chassis - normalled**	
24-circuit Dsub9 normalled, gray, no backshell kits	VP2224-D9-G
24-circuit Dsub9 normalled, black, no backshell kits	VP2224-D9-BK
32-circuit Dsub9 normalled, gray, no backshell kits	VP2232-D9-G
32-circuit Dsub9 normalled, black, no backshell kits	VP2232-D9-BK
32-circuit Dsub9 normalled, black, with backshell kits	VP2232-D9-BK-S
32-circuit Dsub9 normalled, gray, with backshell kits	VP2232-D9-G-S
RS-422 Data Fully Loaded Systems - non-normalled**	
24-circuit Dsub9 non-normalled, black, no backshell kits	VP2224-NND9-BK
32-circuit Dsub9 non-normalled, black, no backshell kits	VP2232-NND9-BK
32-circuit Dsub9 non-normalled, gray, no backshell kits	VP2232-NND9-G

* Normal configurations on bantam audio cards to be set by user.
32-circuit Dsub9 systems require the use of a thin backshell kit.

**The thin backshell Dsub9 provides strain relief for standard Dsub9 connectors. This shell kit is highly recommended on 32-circuit UniPatch RS-422 systems and is included where indicated.

The backshell kits are found on page 95.



Dsub9 Thin Backshell Kit
(Does not include Dsub9 connector, included with -S only.)

Ordering Information

Description	Catalog Number
Traditional RS-422 Patch Panels	
RS-422 2x12 non-normalled RJ45, black	PEM-9NCDA1-BK-NN
RS-422 2x24 dual bantam to Dsub9 normalled	PPB3-5R422D9NS
RS-422 2x12 dual bantam to Dsub9 normalled	PPB3-5R422D9NS-12



UniPatch® Modular System

Ordering Information

Description	Required Chassis Space	Catalog Number
AES Balun Modules		
AES 110 Ω to 75 Ω , 4-circuit BNC to QCP II	2 spaces	AM-411075-MKII
AES 110 Ω to 75 Ω , 4-circuit BNC to EDAC 3-pin plug	2 spaces	AM-411075-E3
AES 110 Ω to 75 Ω , 4-circuit BNC to EDAC 3-pin plug, front facing	2 spaces	AM-411075-E3-FF
2:4 splitter balun module 110 Ω to 75 Ω	2 spaces	AM-2110-475-E3
Plug-in pad (replace "XX" with 01 to -20db) qty: 25 each	-	SCAP-XX
Audio Modules		
Bantam audio, adjustable normals, 2-circuit (4 jacks), black	1 space	AM-BAN-BK
Data Modules		
2-port GigE normalling jack module: PCB with green masking	1 space	DM-GIGE
2-port GigE non-normalling jack module: PCB with black masking	1 space	DM-GIGE-NN
RS-422 data, 10-pin, normals through, black	1 space	DM-422-BK
RS-422 data, 10-pin, normals through, gray	1 space	DM-422-G
RS-422 data, 10-pin, non-normalled, black	1 space	DM-422-NN-BK
RS-422 data, 10-pin, non-normalled, gray	1 space	DM-422-NN-G
Ethernet data, Cat 5 RJ-RJ non normalled coupler, black	1 space	DM-RJC5-BK
Ethernet data, blank adapter, black	1 space	DM-6S-BK
Universal Blank Modules		
Blank module, black	4 spaces	DM-BLANK-BK
Blank module, gray	4 spaces	DM-BLANK-G
Video Modules¹		
Standard, CJ2020N-75 terminated single, 3-circuit, black	4 spaces	VM-2020-BK
Standard, Super Video Jack SVJ-2, 3-circuit, black	4 spaces	VM-SVJ-BK
Standard, Super Video Jack SVJ-2T, terminated, 3-circuit, black	4 spaces	VM-SVJT-BK
Midsized, Super Video Jack MVJ-3, 4-circuit, black	4 spaces	VM-MVJ-BK
Midsized, Super Video Jack MVJ-3T, 4-circuit, terminated, black	4 spaces	VM-MVJT-BK
Midsized, Super Video Jack MVJ-3, 4-circuit, gray	4 spaces	VM-MVJ-G
Midsized, Super Video Jack MVJ-3T, 4-circuit, terminated, gray	4 spaces	VM-MVJT-G
Midsized, MVJ-3, RGB+HV, black	4 spaces	VM-RGBHV-MVJ-BK
Midsized, MVJ-3T, RGB+HV, terminated, black	4 spaces	VM-RGBHV-MVJT-BK
Midsized, MVJ-3, RGB, P _P Y HD module, black	4 spaces	VM-RGB-MVJ-BK
Midsized, MVJ-3T, RGB, P _P Y HD module, terminated, black	4 spaces	VM-RGB-MVJT-BK
Midsized, CJ3014/4014N, 4-circuit, black	4 spaces	VM-CJMID2-BK
Midsized, CJ3014/4014N-75, 4-circuit, terminated, black	4 spaces	VM-CJMIDT2-BK
Midsized, CJ3014/4014N-75, 4-circuit, terminated, gray	4 spaces	VM-CJMIDT2-G

Ordering information continues on next page.

Note: Conventional XLR baluns listed on page 76.

¹Video circuits are supplied with designations and circuit indications.



UniPatch® Modular System

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Ordering Information

Description	Catalog Number
Rear Modules for Audio and Data Applications	
Audio QCP II, 8-circuit for bantam audio applications	VPRM-BAN-MKII
Audio EDAC 3-pin plug, 8-circuit for audio applications	VPRM-BAN-E3
DB-9, 32-circuit Ultra Patch, 3-foot umbilical, white, for audio applications	VPRM-3DB9-W
Universal AMP 50-pin receptacle, 8-circuit, RS-422, white	VPRM-A50-W
Gigabit Ethernet LSA-PLUS® 8-circuit backplane module	VPRM-GIGE-LSA
Universal DB-9, 8-circuit, RS-422, white, for data applications	VPRM-D9-W
Universal EDAC 90-pin plug, 8-circuit, RS-422, white	VPRM-E90-W
Universal QCP II, 8x10 circuit, white, for data applications	VPRM-MKII-W

Ordering Information

Description	Catalog Number
Accessories	
Dsub9 thin backshell connector kit, 1 count	DB9-TSHELL1-KIT
Dsub9 thin backshell connector kit, 16 count	DB9-TSHELL16-KIT
Dsub9 thin backshell connector kit, 64 count	DB9-TSHELL64-KIT
Patch cord kit with two RS-422 ends, 10-pin black, no cable	PC-422-KIT
Bantam audio module extraction tool	VP-BAN-TOOL
Rear cable management kit (mounts in rear rack rails), black	PPI-EXT-BAR-BK
Rear cable management kit (mounts in rear rack rails), gray	PPI-EXT-BAR-G
Replacement Designation Strip Kits*	
Kit of 2 pieces, 17" x .640" full-length designation strips (includes window and mounting screws)	VP-DES-680-32
Kit of 128 windows, .440" x .343" designation windows for bantam modules	VP-DES-BAN
Kit of 16 windows, 2.01" x .343" designation windows for video modules	VP-DES-VIDEO
Kit of 4 pieces, 4.174" x .289" designation strips for bantam, video or data modules (includes windows and mounting screws)	VP-DES-343-4
Kit of 2 pieces, 17" x .289" designation strips for loaded bantam or data chassis (includes windows and mounting screws. Order two kits for loaded bantam systems)	VP-DES-343-32

* See UniPatch® Installation Guide ADCP-75-009 for additional information on selecting the correct designation kit for your UniPatch system. Designations are supplied with chassis and system configurations; kits are for replacement only

UniPatch



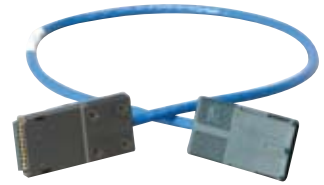
UniPatch® Modular System

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UniPatch

Ordering Information

Description	Catalog Number
Gigabit Ethernet and RS422 Cat 6 Patch Cords	
0.6 m (2 ft)	PC-GIGE-2
0.9 m (3 ft)	PC-GIGE-3
1.2 m (4 ft)	PC-GIGE-4
1.8 m (6 ft)	PC-GIGE-6
UniPatch® Data Patch Cords	
UniPatch RS-422 10-pin black 2'	PC-422-2BK
UniPatch RS-422 10-pin black 3'	PC-422-3BK
UniPatch RS-422 10-pin black 4'	PC-422-4BK
UniPatch RS-422 10-pin black 6'	PC-422-6BK
UniPatch RS-422 10-pin to RJ45, black 2'	PC-422-RJ45-2BK
UniPatch RS-422 10-pin to RJ45, black 3'	PC-422-RJ45-3BK
UniPatch RS-422 10-pin to RJ45, black 4'	PC-422-RJ45-4BK
UniPatch RS-422 10-pin to RJ45, black 6'	PC-422-RJ45-6BK
Traditional Data Patch Cords	
RJ45-RJ45 1', blue	TP5ETA-BL01
RJ45-RJ45 2', blue	TP5ETA-BL02
RJ45-RJ45 3', blue	TP5ETA-BL03
RJ45-RJ45 4', blue	TP5ETA-BL04
Dual bantam to single RJ45, 72"	PAT-100904
Dual bantam to dual RJ45, 72"	PAT-100900-006

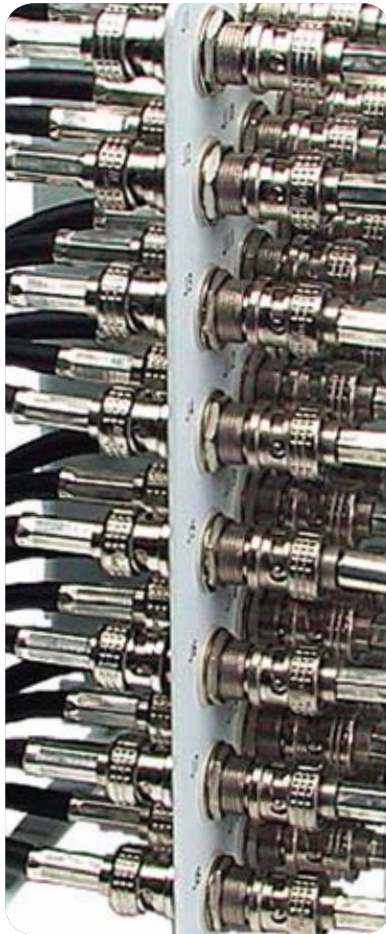


UniPatch Data Patch Cord





Integrated Cable Organization Network ICON[®]



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**ICON®**

Integrated Cable Organization Network

ICON® Models for Every Application

Whether your facility has abundant floor space to accommodate a rack-based ICON system or you need to fit the system into tight spaces by mounting it on the wall, ADC makes a cable management system to meet your requirements:

- I-96 series audio rack-mount system for 19-inch equipment racks
- I-W series audio wall-mount system
- I-WS space-saving super high-density audio wall-mount system
- VI Video ICON rack-mount system for 19- and 23-inch equipment racks
- VIW Video ICON wall-mount system
- Cable management hardware, such as fanning panels and cable bars and rings, are available for each ICON system to ensure all cabling is routed neatly and securely

Labor-saving QCP Audio Connections

ICON audio cable management systems feature ADC's proven punchdown cable termination system for fast, efficient, and secure interconnections. QCP offers these advantages:

- Reduced installation time with fast, easy punchdown terminals
- Reliable gastight connections because of patented QCP split-cylinder design
- Reusable contacts allow easy circuit changes without disturbing adjacent contacts
- Color-coded and numbered contacts prevent wiring mistakes

Flexible and Reliable Video Connections

ICON video cable and panel management systems feature ADC's premier true 75 Ω BNC feed through connectors for HD/SDT applications or F Bulkheads for RF applications:

- Closed entry contact/center pin
- Resists damage
- Identification numbering for easy circuit location



Fully Loaded I-96 Rack-Mount System with Fanning Panels and Express Troughs. Handles 768 balanced audio pairs

**ICON®**

Audio/Video/Data Modular Wall-Mount System

The ICON® I-W Wall-Mount System offers modularity in a convenient wall-mounted system. Subpanels are available for twisted pair, BNC, F, DB9 and Ethernet bulkhead panels. Subpanels purchased individually. The I-W frame holds up to 4 subpanels and has integrated cable rings for cable management.



Frame (I-W-MKIV-PNL)
with 24-position E3 (IW-24-AMP-E3)
and 24-position E3-AMP (IW-24-AMP-E3)



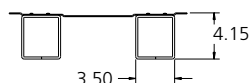
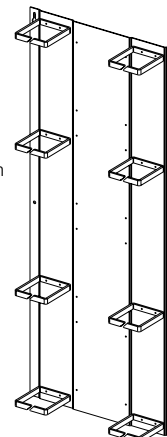
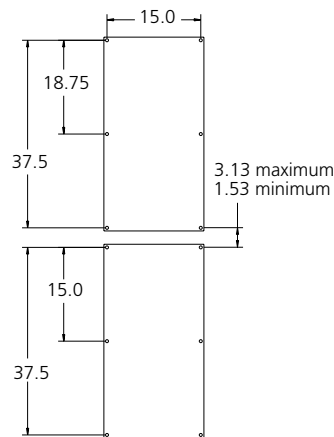
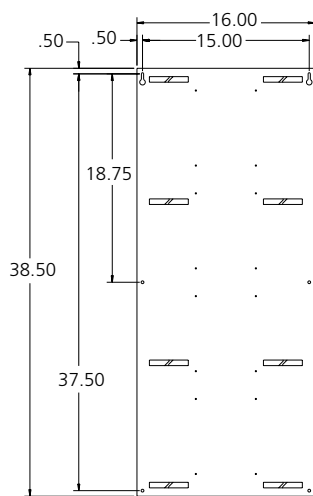
**24-position, BNC,
Bulkhead Panel**
(IW-VI-24-MNT)



**24-position, DB9,
Turnaround Panel**
(IW-24-D9)



**24-position, RJ45 OATSE/CAT6
Ethernet Bulkhead Panel**
(IW-5E-24)



Mounting hole pattern
for wall mount panels

ICON

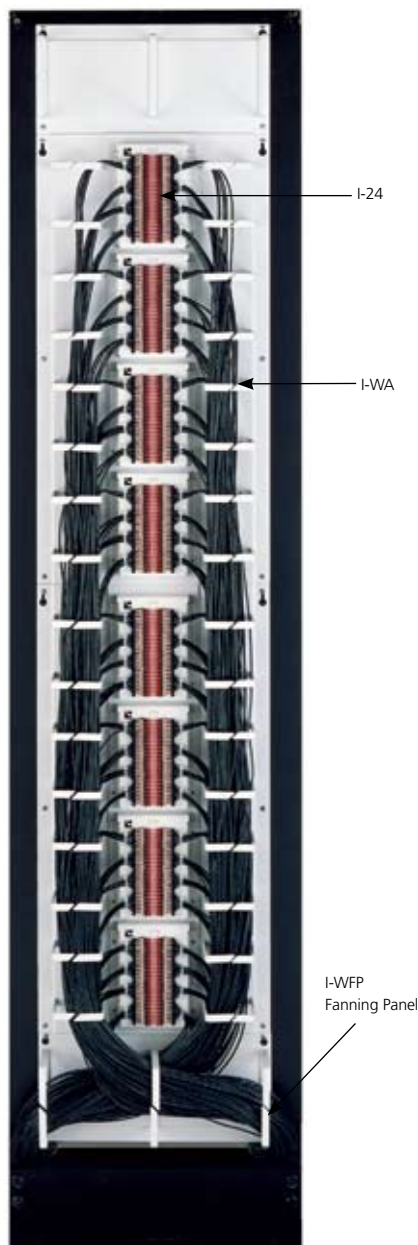


ICON® Audio Wall-Mount System

The ICON® I-W is a wall-mount audio cable management system ideally suited for use where floor space is at a premium but wall space is available. The convenient front-facing design mounts flat against the wall and provides two appearances of each circuit on the terminal blocks. Cabling to and from your equipment punches down on the right side array of contacts, and cross-connections to these circuits are made on the left side array of contacts. This makes it easy to change cross-connections without disturbing equipment wiring.

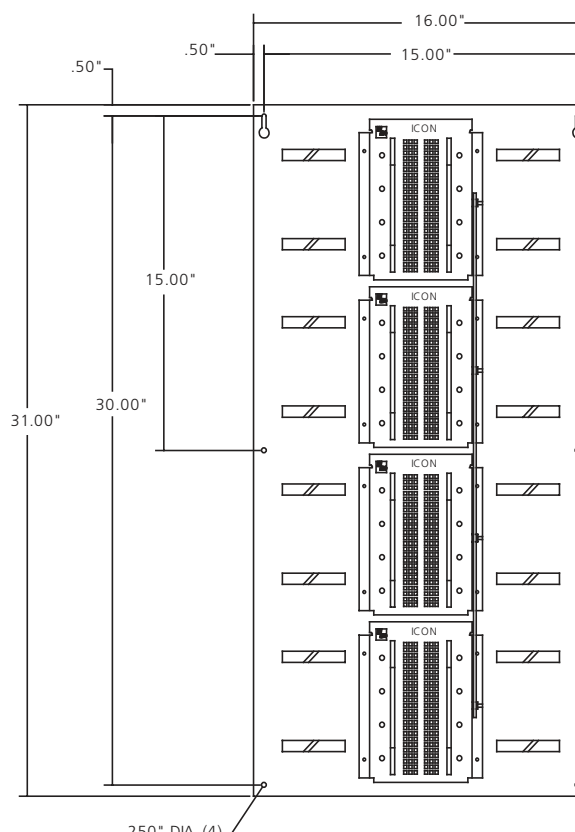
An I-W system is assembled from the following components:

- I-WA (jumpered side to side with a bussed shield system) or I-WB (jumpered side to side with isolated shields) wall-mount frame holds four I-24 QCP terminal blocks
- I-24 QCP termination block terminates or cross-connects 24 balanced audio circuits



I-W System

(handles 192 balanced audio pairs in 16-inches by 5-feet)



**Frame Dimensions
I-WA/I-WB**

Note: MKIV dimensions are different. Contact ADC for dimensions.

**ICON®**

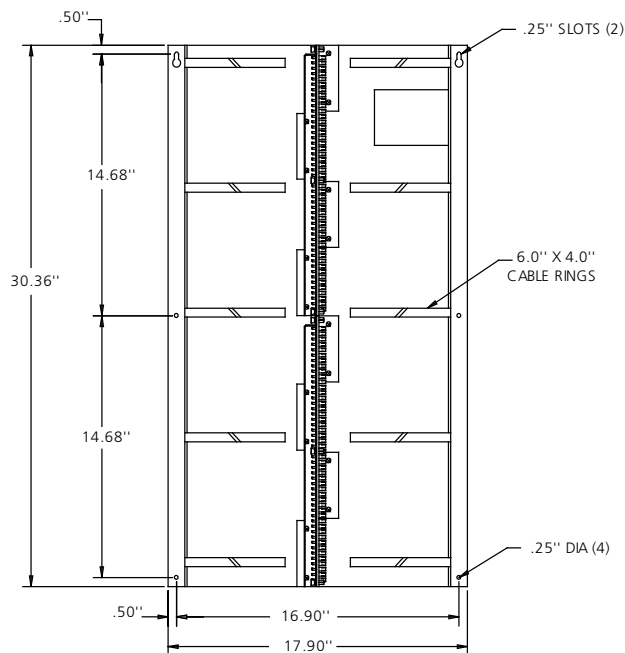
Audio Super High-Density Wall-Mount System

The ICON® I-WS is a super high-density wall-mount cable management system engineered for maximum space efficiency. The I-WS system terminates or cross-connects up to 192 balanced audio circuits in a 31.0 x 17.9-inch (79.0 x 45.5 cm) QCP II frame or in a 34.6 x 17.9-inch (87.9 x 45.5 cm) QCP IV frame. The I-WS frame holds two 96-circuit QCP II or QCP IV punchdown panels mounted on edge, 90 degrees relative to the wall to provide access to connections on both sides, an extremely space-efficient arrangement. Cabling from your equipment connects on the left side of the panel, and the feedthrough design allows cross-connect access to those circuits on the right side without affecting the equipment wiring. Two I-WS frames can be stacked to achieve 384 balanced audio pairs in only 62-inches of vertical wall space.

I-WS System Components

The I-WS system consists of the following main components. You can start with a single frame and panels and expand to additional frames as needed.

- I-WS wall-mount frame holds two I-WS-PANEL assemblies and includes vertical cable rings and fanning strips terminating a total of 192 circuits
- QCP II or QCP IV 96-circuit punchdown terminal block panel mounts in the I-WS-PANEL
- I-WSSET express trough mounts above or below I-WS frame and routes cables horizontally



I-WS Frame Dimensions

Note: MKIV dimensions are different. Contact ADC for dimensions.



Two stacked I-WS frames
(provides 384 balanced audio pairs in 62-inches of vertical wall space)



Express Trough
(I-WSSET)
(see accessories)

ICON



ICON[®]

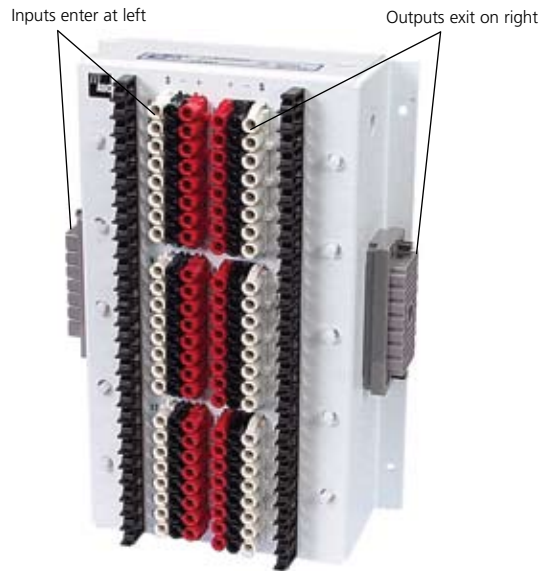
Audio Termination Blocks

Features

- Termination block sizes and connectors are available, including 12-, 24-, 32-, 48-, and 52-circuits as well as QCP II, QCP IV, AMP 50-pin receptacle, and EDAC 90-pin plug
- Rack-mounting kit holds two I-24 termination blocks as an alternative to wall-mounting

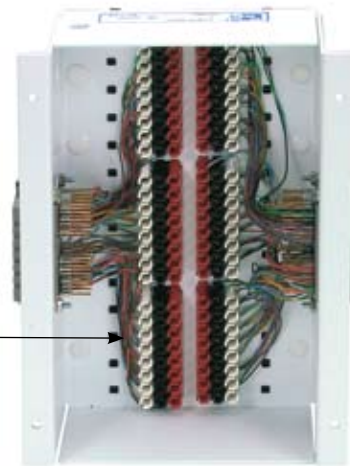


QCP II Termination Block
(I-24A)



QCP IV to EDAC 90-Pin Plug
Termination Block
(front view)
(I-24E90-MKIV)

Jumpers connect
inputs to outputs



QCP IV to EDAC 90-Pin Plug
Termination Block
(rear view)
(I-24E90-MKIV)

Contact ADC for additional connectorized versions.



ICON® Video Wall-Mount System

For facilities where rack space is at a premium but wall space is readily available, ADC offers the VIW Video ICON® wall-mount video bulkhead panel series. These tough powder-coated steel panels mount on the wall and provide from eight to 96 video bulkhead connectors for managing cables between racks or between studios. Top-quality 3 GHz bulkhead connectors ensure the best video performance from analog to HDTV transmission rates.

- VIW-8 (1x8) and VIW-408 (4x8) for small applications
- VIW-424 (4x24), VIW-64 (2x32), and VIW-72 for intermediate size applications. The VIW-64 is ideal for managing cables for a 64-input router matrix
- VIW-96 (3x32) for larger uses, such as organizing inputs and outputs for a large router matrix
- Cable support bars or rings included on most models



**8-Connector Bulkhead
Wall-Mount Panel**
(VIW-8)



**24-Connector Bulkhead
Wall-Mount Panel**
(VIW-24)



**64-Connector Bulkhead
Wall-Mount Panel**
(VIW-64)


Ordering Information

Description	Dimensions	Catalog Number
Audio/Video/Data Modular Wall-Mount System (may be mounted individually or attached to an I-W frame)		
Wall-mount empty frame with cable management. Allows up to 4-IW blocks		I-W-MKIV-PNL
Wall-mount block, 24 position, E3-AMP		IW-24-AMP-E3
Wall-mount block, 24 position, DB-9		IW-24-D9
Wall-mount block, 24 position, E3		IW-24-E3
Wall-mount block, 24 position, RJ		IW-5E-24
Wall-mount block, 24 position, BNC		IW-VI-24-MNT
Audio Wall-Mount Systems		
Wall-mount frame with four I-24A QCP II blocks for terminating or cross-connecting 96 balanced audio circuits	79 cm x 41 cm (31" x 16")	I-WA
I-WA with QCP IV connectors	97.8 x 40.70 cm (38.5" x 16")	I-WA-MKIV
I-WA with QCP IV to ELCO/EDAC 90-pin plugs	97.8 x 40.70 cm (38.5" x 16")	I-WA-E90-MKIV
I-WA with I-24B QCP II blocks that have floating shield terminations		I-WB
I-WB with QCP IV blocks	97.8 x 40.70 cm (38.5" x 16")	I-WB-MKIV
I-WB with QCP II to AMP 50-pin receptacles		I-WB-AMP
I-WS wall-mount frame includes I-WS-PANEL with QCP II or QCP IV connector blocks mounted 90° from the wall. Terminates or cross-connects 192 balanced audio circuits	31" x 17.9" (79 cm x 45.5 cm)	I-WS
	34.6" x 17.9" (87.9 x 45.5 cm)	I-WS-MKIV
Audio QCP Termination Blocks		
Terminates and cross-connects 24 balanced audio circuits; each circuit appears on two arrays (left and right) of QCP II on each block and are jumpered on the rear of the block; shield terminals are mulled together and brought out to an insulated terminal post on the side of the block to allow grounding of the system to a common point.	17.78 x 15.24 x 2.54 cm (7" x 6" x 1")	I-24A
I-24A with floating shield terminals, and no grounding terminal on side, strapped on jumpers		I-24B
I-24A with no rear jumpers and no grounding terminal on side		I-24C
Same as I-24A except 27 circuits	19 cm x 15 cm x 2.54 cm (7.5" x 5.9" x 1")	I-27A
Same as I-24A except uses improved MKIV QCP termination. Terminates and cross-connects 24 balanced audio circuits on two arrays (left and right) on each block and is jumpered on rear of block; shield terminals are mulled together and brought out to an insulated terminal post on side of block	22.2 cm x 15 cm x 2.54 cm (8.75" x 5.9" x 1")	I-24A-MKIV
Same as I-24A-MKIV except with floating shield terminals and no grounding terminal on side	22.2 cm x 15 cm x 2.54 cm (8.75" x 5.9" x 1")	I-24B-MKIV
Same as I-24A-MKIV except with no rear jumpers and no grounding terminal on side	22.2 cm x 15 cm x 2.54 cm (8.75" x 5.9" x 1")	I-24C-MKIV



Ordering Information

Description	Number of Circuits	Catalog Number
Video Wall-Mount Systems		
1x8 wall mount bulkhead panel, fits on I-W Frame	8	VIW-8
3x8 wall mount bulkhead panel, fits on I-W Frame	24	VIW-24
24-circuit bulkhead panel	24	VIW-408
64-circuit bulkhead panel	64	VIW-64
72-circuit bulkhead panel	72	VIW-72
96-circuit bulkhead panel	96	VIW-424
96-circuit bulkhead panel	96	VIW-96

**Ordering Information**

Description	Dimensions	Catalog Number
Audio Wall-Mount Accessories		
Fanning Panels; Mounts above, between or below I-WA or I-WB frames to route cabling between frames.	19 cm x 41 cm (7.5"x16")	I-WFP
Cable Ring; Cable ring for use with I-WFP mounts on the wall above, between, or below frames or fanning panels.	4.5"D x 5.5"W	I-WFP-RING
Rack-Mounting Kit; Holds two I-24s in a standard 48 cm (19") rack		I-24R
Icons empty panel mounts on the I-WS frame and holds the QCP blocks.		I-WS-PANEL
Cable Management express trough mounts above, between, or below I-WS and routes cabling horizontally between frames.	7.5" x 17.9" (19 cm x 45 cm)	I-WSET



ICON®

Audio Rack-Mount Systems

Modular Rack-Mountable Components

The system is built around rack-mountable modular components that you can assemble in different combinations to create the system you require:

- The I-96 QCP II or QCP IV punchdown connection panel terminates and cross-connects 96 balanced audio circuits in 2 RU
- The I-FPB or I-FPD fanning panel dresses and provides strain relief for cables above or below the I-96 panel. Models are available in 1 RU and 2 RU
- Rack-mounted cable troughs and rings are available in various configurations to guide cables in the rack or along rack rails
- I-96 connectors available include QCP II, QCP IV, AMP 50-pin receptacle, and EDAC 90-pin plug



I-96 System
(rear view)



2 RU QCP IV Panel
(I-96B-MKIV)



(rear view showing jumpers)



3 RU QCP II Hinged Termination Panel
(I-96S)



ICON® Audio Rack-Mount Systems

The ICON® I-96 high-density rack-mount audio cable management system installs in a standard 19-inch (48 cm) EIA equipment rack and is engineered for easy access to front and rear connections. The rack-mounted QCP II or QCP IV punchdown panels are quick to connect, and the feedthrough design allows changing of cross-connection jumpers on the front without disturbing connections on the rear. Multiple I-96 panels can be installed for up to 768 circuits in a fully loaded 7-foot rack.



1 RU Dsub9 Feedthrough Rack-Mount Control Panel Breakout Panel
(I-116-D9F)



2 RU QCP IV/DB-25 Rack-Mount Panel
(I-DB25)



2 RU QCP II/EDAC 90-Pin Plug Rack-Mount Panel
(I-96-E)



2 RU AMP 50-Pin Receptacle Panel (Rear View)
(I-96-AMP)



ICON® Video Rack-Mount Systems

Durable Rack-Mounted Video Bulkhead Panels

The ICON VI series is a complete line of 19-inch (48 cm) rack-mounted bulkhead video cable management panels starting from the small 12-circuit VI-12 panel to the full-sized VI-48 with 48 bulkhead coax circuits. Each panel is made of the same strong powder-coated steel and uses high-quality 3 GHz coax bulkhead connectors suitable for HDTV.

- VI-12 and VI-16 2 RU panels handle 12 or 16 circuits for small applications, such as organizing monitor outputs or the inputs and outputs of a small router
- VI-24 and VI-32 2 RU panels provide 24 and 32 circuits for moderately-sized applications, such as feeding cables to a 32-input router
- The VI-132 (2x32) 1 RU panel provides the largest number of inputs and outputs in the smallest space
- VI-48 2 RU panel handles 48 circuits for larger applications
- Colors available include white, putty white, and black
- Some models include designation strip holders for circuit identification
- Insulated and non-insulated available
- 23" panels are also available



**Exclusive ADC
Closed-entry Center Pin
Resists Damage**



**Conventional Center Pins
Prone to Damage**



**75 Ω 12-circuit BNC Panel
(VI-12-PTY)**

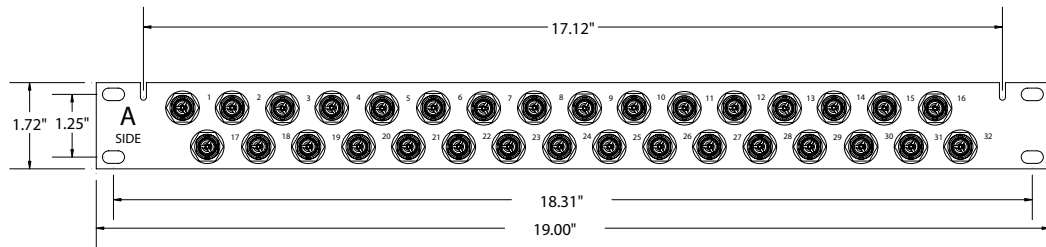


**75 Ω 48-circuit BNC Panel
(BNC-BLK-48)**

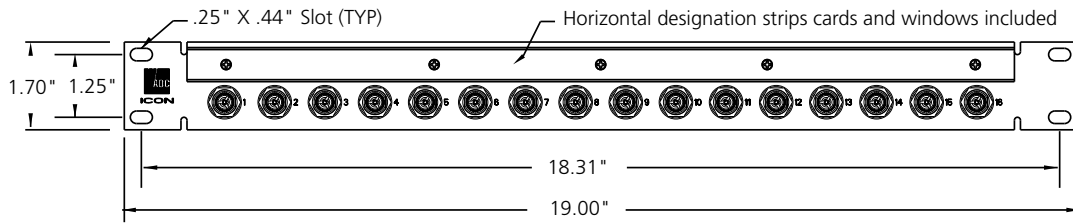


ICON[®] Video Rack-Mount Systems

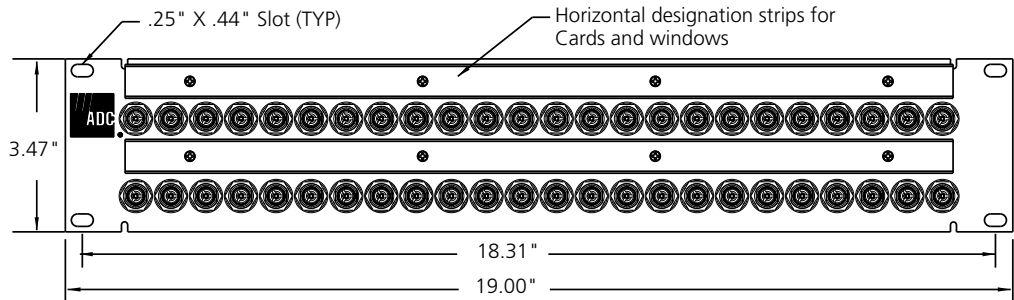
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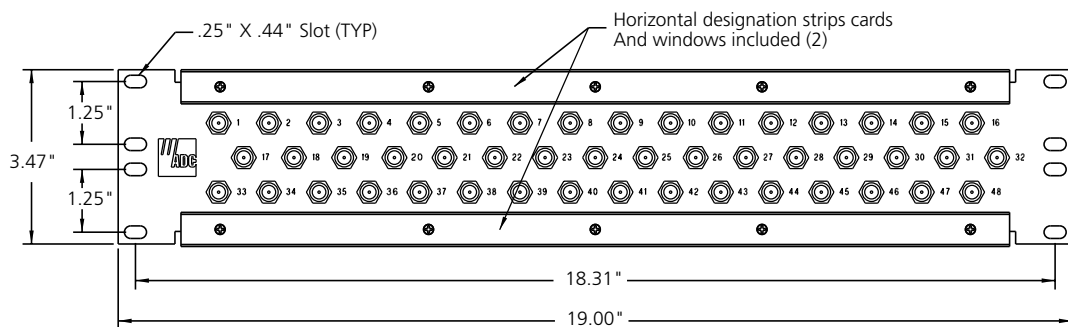
32-Circuit 1 RU BNC Bulkhead Panel
(VI-132-SS-BK)



16-Circuit 1 RU BNC Bulkhead Panel
(VI-116-DES-W)



48-Circuit 2 RU BNC Bulkhead Panel
(VI-48-19-TTDES-BK)



48-Circuit 2 RU F81 Connector Bulkhead Panel
(VI-48F-19-PTY)



ICON®

Ordering Information

Description	Catalog Number
Audio Rack-Mount Systems	
Audio QCP Panels - EIA Rack-Mount 19"	
2 RU panel QCP II cross-connects, 96 balanced audio circuits	I-96
2 RU panel QCP IV cross-connects, 96 balanced audio circuits	I-96-MKIV
2 RU QCP II to ELCO/EDAC 3-pin plug, cross-connects, 96 audio circuits	I-96-3E
2 RU QCP II to AMP 50-pin receptacle, cross-connects, 96 audio circuits	I-96-AMP
2 RU QCP II to EDAC 90-pin plug, cross-connects, 96 audio circuits	I-96-E
2 RU QCP II with rear jumpers, cross-connects, 96 audio circuits	I-96B
2 RU QCP IV with rear jumpers, cross-connects, 96 audio circuits	I-96B-MKIV
2 RU QCP IV hinged left, cross-connects, 96 audio circuits, black	I-96S-MKIV-BK
3 RU QCP II for 23" rack, cross-connects, 96 audio circuits	I-96S
1 RU panel Dsub9 receptacles, 1x16	I-116-D9F
2 RU hinged panel QCP II cross-connects, 96 balanced audio circuits	I-96S-19B
1 RU panel QCP IV cross-connects, 32 balanced audio circuits	I-32-DES-W
2 RU panel QCP II cross-connects, 48 balanced audio circuits	I-48
2 RU panel QCP II to AMP 50-pin receptacle, 52 circuits	I-52-AMP
1 RU panel QCP II to EDAC 90-pin plug, 52 circuits	I-52-E
1 RU panel QCP IV cross-connects, 16 balanced audio circuit and 1 video bulkhead feedthrough	I-CS-V8
2 RU panel QCP II to (4) DB25 connectors	I-DB25

All products listed above are white unless otherwise noted.



Ordering Information

Description	Catalog Number
Audio Accessories	
Fanning Panels - EIA Rack-Mount 19"	
2 RU panel with cable rings for routing cables horizontally. Used with multiple racks with I-FL (listed below) mounted between racks to route cables vertically and provide additional strain relief	I-FPD
1 RU panel with cable rings for routing cables horizontally. Used with multiple racks with I-FL (listed below) mounted between racks to route cables vertically and provide additional strain relief	I-FPD-1RU
2 RU panel with rings for horizontal or vertical cable routing Includes 2 rings to vertically route cables in the rear; to be used with a standalone channel rack	I-FPB
Vertical Cable Ring/Spacers	
Functions as a spacer mounted between channel racks and routes cabling from both the front and the rear of I-FPBs	I-FL
Ring for vertical cable routing; mounts on front or rear rack rails	I-VR
Express Troughs - EIA Rack-Mount 19"	
2 RU express trough for horizontal cable routing between racks	I-ET-3
3 RU express trough for horizontal cable routing between racks	I-ET-5
4 RU express trough for horizontal cable routing between racks	I-ET-7

All products listed above are white unless otherwise noted.



Express Trough
(I-ET)



Fanning Panel
(I-FPB)



Fanning Panel
(I-FPD)



Vertical Ring
(I-VR)



Fanning Panel
(I-FL)


Ordering Information

Description	Number of Circuits	Catalog Number
Video Rack-Mount Systems		
19" Rack Mount BNC Bulkhead Panels, 75Ω		
2 RU 2x6, putty	12	VI-12-PTY
2 RU 2x6, white	12	VI-12-W
1 RU 1x16 with designation strips, white	16	VI-116-DES-W
2 RU 2x8 with designation strips, putty	16	VI-16-PTY
2 RU 2x10 with designation strips, putty	20	VI-20-PTY
2 RU 2x12, putty	24	VI-24-PTY
2 RU 2x12 with vertical and horizontal rings, black	24	VI-24VHR-BK
1 RU 2x16, black	32	VI-132-SS-BK
2 RU 2x16 with designation strips, black	32	VI-32-BK
2 RU 2x16 with designation strips, putty	32	VI-32-PTY
2 RU 2x16 with upper and lower designation strips, white	32	VI-32-W
2 RU 2x16 with lower and middle designation strips, white	32	VI-32-DES-W
2 RU 3x16 with designation strips, black	48	VI-48-BK
2 RU 3x16 with designation strips, putty	48	VI-48-PTY
2 RU 3x16 with designation strips, white	48	VI-48-W
2 RU 2x24 with designation strips, black	48	VI-48-TTDES-BK
2 RU 2x24 with designation strips, gray	48	VI-48-TTDES-G
1 RU 2x16 empty BNC panel for ADC bulkhead BNCs	32	VI-132-PNL-BK
23" Rack Mount BNC Bulkhead Panels, 75Ω		
2 RU 2x18 with top and bottom designation strips, putty	36	VI-36-23-DES-PTY
2 RU 2x24 with upper and lower designation strips, black	48	VI-48-23-DES-BK
2 RU 2x24 with upper and middle designation strips, black	48	VI-48-23-TT-DES-BK
75 W 19" Rack Mount BNC Bulkhead Panels with Cable Tray		
2 RU 2x6 with cable tray, white	12	VI-12-TR-W
2 RU 2x12 with cable tray, white	24	VI-24-TR-W
1 RU 2x16 with cable tray, black	32	VI-132-TR-BK
2 RU 2x16 with cable tray, putty	32	BNC-BLK-32-TR75
23" Rack Mount BNC Bulkhead Panels with Cable Tray, 75Ω		
2 RU 2x14 with cable tray, putty	28	VI-28-BBG
2 RU 2x18 with cable tray, black	36	BNC-BLK-36-TR-1U-B
2 RU 2x24 with cable tray, black	48	BNC-BLK-48-TR-2U-B
2 RU 2x24 with cable tray, putty	48	BNC-BLK-48-TR-2U-P
F Connector Rack Mount Bulkhead Panels, 75Ω		
2 RU 1x6 BNC, 1x6 F connector with tray, white	12	VI-12-BNC-F-W
1 RU 19" 1x16 F connector panel with designation strip, putty	16	VI-16F-19-PTY
2 RU 19" 3x16 F connector panel with designation strip, putty	48	VI-48F-19-PTY
2 RU 23" 2x24 F connector panel with designation strip, putty	48	VI-48F-23-PTY



Broadcast and Entertainment Products

Coax Connectors



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Coax Connectors

BNC Connectors



ADC's true 75 Ω BNC connectors are the most reliable and universally accepted method of terminating coaxial cable in the market today. Outstanding electrical performance (up to 3 GHz) is achieved by unique design elements in the industry's truest 75 Ω connector. Precision-molded insulators with locking gold-plated center conductors ensure true 75 Ω characteristic impedance. Innovative features result in significant reduction of impedance mismatch throughout the network and improved transmission reliability in digital applications.

An idea whose time has come, the new notched BNC series from ADC makes it easy to spot BNC connectors that are not properly latched to BNC jacks. This is especially helpful with high-density coax panels such as ADC's midsize video product offering where terminations are very tight, and in the back of dark racks.

Features

- Designed to exceed the rigorous demands of today's telecom, CATV and broadcast environments including SMPTE 424M 1080p, 259, 274, and 292M standards
- Outstanding electrical performance beyond 3 GHz
- Gold-plated, locking center conductor
- True 75 Ω characteristic impedance end-to-end
- .625" crimp sleeve for greater pull-off force
- Compatible with hex, square, and 12-point crimp tools and select competitive crimp tools and die sets
- 100 percent guided mating
- Tarnish-resistant, nickel-plated body and machine bayonet
- Sizes for multiple cable types
- Meets or exceeds MIL-C-39012 requirements
- 100% North American/European precision components
- Strip lengths common between sizes and types (except for Belden 7731/CommScope 7530, RG11 Cable)



Coax Connectors

Straight BNC Plug Connectors

Ordering Information

Description					Catalog Number	
Cable Numbers	Cable OD		Center Conductor	Crimp Die	Single	Bulk (100)
	in	mm	AWG			
734A/D, 734AP, 9259, 1505A, 1505F, 9100, 9165, VPM2000, FM59, RCCH, 9167, M8023, LV61, 8241F, Image720	0.240	6.10	20	WD-1, WD-2, WD-3, WD-5	BNC-1-N	BNC-1B-N
RG59, RG59B/U, 9209, 8279, 8241, 9244	0.237	6.01	23	WD-1, WD-2, WD-3, WD-5	BNC-2-N	BNC-2B-N
735A, NT735	0.127	3.23	26	WD-2, WD-7	BNC-3-N	BNC-3B-N
CECBV-75-2	0.173	4.39	26	WD-3	BNC-3TMX	-
728, 8281, 8281B, 8281F, VP618PE, VP618PE, VP618M, CV752, CAMPLEX 1	0.305	7.75	20	WD-1	BNC-4-N	BNC-4B-N
1187A, HEC-2, F-HEC59, F59SSEF	0.278	7.07	20	WD-1	BNC-5-N	BNC-5B-N
1506A, 1824A, VPM2000TS, VPM2000TK, CV7559-PLEN	0.209	5.30	20	WD-1, WD-2, WD-3, WD-5	BNC-6-N	BNC-6B-N
8218, 7538, 0222, CV75SM, RCC	0.172	4.38	24	WD-2, WD-7	BNC-7	-
1694A, 9248, 9058, VSD2001, VSD2001TS, RG6SD, 1.0/4.8, M8024, Image1000, 1189AP, 9116P	0.285	7.23	18	WD-4, WD-5, WD-7	BNC-8-N	BNC-8B-N
1189A	0.298	7.56	18	WD-1	BNC-9-N	-
1695A, RG6SD-PLEN	0.251	6.38	18	WD-1, WD-2, WD-3, WD-5	BNC-10-N	BNC-10B-N
9268, S-HEC 89, 6605, PSF1/3	0.314	7.97	23	WD-1	BNC-11	-
1865, 8218, 7537, RGB250	0.171	4.34	25	WD-2, WD-7	BNC-12-N	-
1855A, RGBSC250, VDM250, VDM230, DSM1 (3,4,5) M8025	0.170	4.32	24	WD-2, WD-7	BNC-13-N	BNC-13B-N
BT3002, T2C75024	0.176	4.46	28	WD-2, WD-7	BNC-14	-
8216, 9239, 83269, RGBSC260TS, VPM260, 1282P, 1277	0.108	2.75	26	WD-2, WD-7	BNC-16-N	BNC-16B-N
88281, VP618TK, CV752-PLEN	0.271	6.88	20	WD-1	BNC-17-N	BNC-17B-N
V45466-D1-B	0.217	5.51	27	WD-2	BNC-18	-
LL79301	0.160	4.05	24	WD-2, WD-7	BNC-19-N	-
8228, 82120, H126D02	0.278	7.07	18	WD-4, WD-7	BNC-20-N	BNC-20B
8219, RG58	0.222	5.65	20	WD-1, WD-2, WD-3, WD-5	BNC-21-N	-
1167A, 1418B RGB	0.171	4.34	25	WD-2, WD-7	BNC-22	-
7732A				WD-6	BNC-24	-
7731A, 5906, VHD1100, 89292, Image2000, PR611C4, L7CFB, RG1HO, CAMPLEX2	0.409	10.39	14	WD-6	BNC-25-N	BNC-25B-N
0.6/2.8, SDV-25, 3CFB, Image360	0.185	4.69	23	WD-2	BNC-26-N	BNC-26B-N
7530, VHD7000, 7855A	0.322	8.18	16	WD-1, WD-7	BNC-27	-
LL92833	0.118	1.96	26	WD-2, WD-7	BNC-28	-
5740, 5741, L-5CFB	0.304	7.41	18	WD-1	BNC-29	-
SFYZ-75-2-1, PD-847	0.039	1.00	27.5	WD-2	BNC-30	-
DT179, 1522A; 1808A	0.126	3.19	28.5	WD-2, WD-7	BNC-31-N	BNC-31B-N
Conduumex Mini 75 Cable	0.126	3.20	30	WD-2, WD-7	BNC-32	-



Coax Connectors

Right Angle BNC Plug Connectors

Features

- Right angle design alleviates stress associated with bending cable
- Provides increased density
- Improves overall cable management
- Bulk packaging available
- Center conductor pins and crimp sleeves are fully interchangeable with ADC's straight plugs for same cable type



Ordering Information

Description					Catalog Number	
Cable Numbers	Cable OD		Center Conductor	Crimp Die	Single	Bulk (100)
	in	mm	AWG			
Right Angle BNC Plug Connectors						
734A/D, 734AP,9259, 1505A, 1505F, 9100, 9165, VPM2000, CV752, FM59, RCCH, 9167, M8023, LV61, 8241F, Image720	0.240	6.10	20	WD-1, WD-2, WD-3, WD-5	BNC-RA-1	BNC-RA-1-B
RG59, RG59B/U, 9209, 8279, 8241, 9244	0.237	6.01	23	WD-1, WD-2, WD-3, WD-5	BNC-RA-2	BNC-RA-2-B
735, NT735	0.127	3.23	26	WD-2, WD-7	BNC-RA-3	BNC-RA-3-B
8281B, 8281F, VP618PE, VP618M	0.305	7.75	20	WD-1	BNC-RA-4	BNC-RA-4-B
8218, 1855A, 7538	0.172	4.38	24	WD-2, WD-7	BNC-RA-7	BNC-RA-7-B
1694A, 9248, 9058, VSD2001, VSD2001TS, RG6SD, 1.0/4.8, M8024, Image1000, 1189AP, 9116P	0.285	7.23	18	WD-4, WD-5, WD-7	BNC-RA-8	BNC-RA-8-B



Coax Connectors

Bulkhead Jack Connectors

Features

- Easier, more reliable termination; gold-plated locking center conductor ensures proper alignment during termination
- 100 percent guided mating
- Exclusive closed-entry contact prevents center conductor damage from non-standard BNCs or test probes
- Eliminates one termination point when used as a bulkhead connector



Ordering Information

Description					Catalog Number
Cable Numbers	Cable OD		Center Conductor	Crimp Die	
	in	mm	AWG		
Bulkhead Jack Connectors					
734A/D, 734AP,9259, 1505A, 1505F, 9100, 9165, VPM2000, CV752, FM59, RCCH, 9167, M8023, LV61, 8241F, Image720	0.240	6.10	20	WD-1, WD-2, WD-3, WD-5	BNC-BHJ-1
CECBV-75-2	0.173	4.39	26	WD-3	BNC-BHJ-3TMX
1694A, 9248, 9058, VSD2001, VSD2001TS, RG6SD, 1.0/4.8, M8024, Image1000, 1189AP, 9116P	0.285	7.23	18	WD-4, WD-5, WD-7	BNC-BHJ-8
1865, 1855A, RGBSC250	0.170	4.32	24	WD-2, WD-7	BNC-BHJ-13
8216, 9239, 83269, RGBSC260TS, VPM260, 1282P, 1277	0.108	2.75	26	WD-2	BNC-BHJ-16



Coax Connectors

F Connectors

ADC's high-performance F connectors are designed for demanding digital applications where a high-quality, high-performance F connector is required. These connectors provide superior return loss (-30 dB to 3 GHz) and are the perfect choice for use in digital headends, satellite down links, and high-performance customer premises applications.



Features

- All-crimp two-piece design goes together like a BNC
- Combines the superior electrical performance of a BNC with the superior RF performance of an F connector
- True 75 Ω design for performance up to 3 GHz
- Crimp-on center pin provides outstanding connection rather than relying on the copper center conductor of the cable
- Gold-plated locking center pin just like a BNC connector
- Diamond-knurled crimp hub and long .500" crimp sleeve provides higher pull-off force than typical F connector types
- Long 3/8" wrench flats make for a more comfortable and easier connector to thread
- Precision machined parts for greater unit to unit consistency
- Exclusive molded center conductor insulator provides a truer impedance match over PVC and Teflon types
- Same strip and crimp dimensions as our standard BNC plugs, common tooling
- Cable sizes for RG59, RG187, and RG6 available
- Termination plugs in 1% and precision 0.1% available

Ordering Information

Description					Catalog Number	
Cable Numbers	Cable OD		Center Conductor	Crimp Die	Single	Bulk (100)
	in	mm	AWG			
F Connectors						
734A/D, 734AP,9259, 1505A, 1505F, 9100, 9165, VPM2000, CV7559, FM59, RCCH, 9167, M8023, LV61, 8241F, Image720	0.240	6.10	20	WD-1, WD-2, WD-3, WD-5	CF-1	CF-1B
1187A, HEC-2, F-HEC59	0.278	7.07	20	WD-1	CF-5	-
1694A, 9248, 9058, VSD2001, VSD2001TS, RG6SD, 1.0/4.8, M8024, Image1000, 1189AP, 9116P	0.285	7.23	18	WD-1	CF-8	CF-8B
1189A	0.298	7.56	18	WD-1	CF-9	-
1855A, RGBS250, VDM250, VDM230, DSM1 (3,4,5) M8025	0.170	4.32	24	WD-2, WD-7	CF-13	CF-13B
5740, 5741, L-5CFB	0.304	7.41	18	WD-1	CF-29	-
DT179, 1522A; 1808A	0.126	3.19	28.5	WD-2	CF-31	-



Coax Connectors

RCA Connectors

The venerable RCA connector is still the universally accepted method of terminating coaxial cable for audio and video signals in prosumer-type products such as video decks, DVDs, video projectors and HD monitors. ADC's new precision RCA connectors are designed for demanding professional environments, offering a performance-driven product with outstanding mechanical and electrical characteristics, as well as easy BNC-type assembly. Precision-molded insulators with locking gold-plated center conductors ensure nominal 75 Ω characteristic impedance. Innovative features such as ADC's proprietary geometrically molded insulator design result in a significant reduction of impedance mismatch and improved transmission reliability for digital applications. ADC's RCA connectors use the same strip and crimp tools as ADC BNC and F connector products, making installation easy and fast.

Features

- Outstanding electrical performance up to 2 GHz
- 50 microinch gold-plated, locking internal center conductor crimps to cable
- Exclusive closed-entry center pin contact RCA pin/receptacle
- Nominal 75 Ω characteristic impedance end-to-end
- Easy preparation and installation; installs just like a standard BNC with BNC tooling
- Compatible with hex, square, and 12-point crimp tools and select competitive crimp tool and die sets
- Tarnish-resistant, nickel-plated body; 50 microinch gold-plated center pin, or all gold-plated version (shown)
- Sizes for multiple cable types
- Cable sizes for RG59, RG187 and RG6 available; uses same tooling
- Meets or exceeds MIL-STD-202F requirements





Coax Connectors

RCA Connectors

Ordering Information

Description					Catalog Number		
Cable Numbers	Cable OD		Center Conductor	Crimp Die	Single	Bulk (100)	
	in	mm	AWG				
RCA Connectors							
734A/D, 734AP,9259, 1505A, 1505F, 9100, 9165, VPM2000, CV7559, FM59, RCCH, 9167, M8023, LV61, 8241F, Image720	0.240	6.10	20	WD-1, WD-2, WD-3, WD-5	CRCA-1	CRCA-1B	
RG59, RG59B/U, 9209, 8279, 8241, 9244	0.237	6.01	23	WD-1, WD-2, WD-3, WD-5	CRCA-2	-	
728, 8281, 8281B, 8281F, VP618PE, VP618PE, VP618M, CV752, CAMPLEX 1	0.305	7.75	20	WD-1	CRCA-4	-	
1187A, HEC-2, F-HEC59	0.278	7.07	20	WD-1	CRCA-5	-	
1694A, 9248, 9058, VSD2001, VSD2001TS, RG6SD, 1.0/4.8, M8024, Image1000, 1189AP, 9116P	0.285	7.23	18	WD-1, WD-7	CRCA-8	CRCA-8B	
1855A, RGBS250, VDM250, VDM230, DSM1 (3,4,5) M8025	0.170	4.32	24	WD-2, WD-7	CRCA-13	CRCA-13B	
8216, 9239, 83269, RGBSC260TS	0.108	2.75	26	WD-2, WD-7	CRCA-16	-	
Gold RCA Connectors							
1694A, 9248, 9058, VSD2001, VSD2001TS, RG6SD, 1.0/4.8, M8024, Image1000, 1189AP, 9116P	0.285	7.23	18	WD-4	CRCAG-8	-	
1855A, RGBSC250, VDM250, VDM230, DSM1 (3,4,5) M8025	0.170	4.32	24	WD-2	CRCAG-13	-	



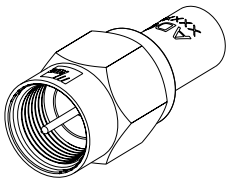
Gold RCA Connector



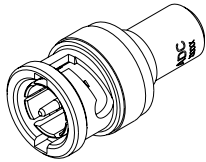
Coax Connectors

Terminating Plugs

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Precision 0.1%
F Terminating Plug
(CF-TP2)



Precision 0.1%
BNC Terminating Plug
(BNC-TP2)

Ordering Information

Description	Catalog Number
BNC Terminating Plug	
1% 75 Ω resistor	BNC-TP1
Precision 0.1% 75 Ω resistor	BNC-TP2
F Terminating Plug	
1% 75 Ω resistor	CF-TP1
Precision 0.1% 75 Ω resistor	CF-TP2
Accessories	
Hex nut for .505" bulkhead connectors	TPC-1B
Locking washer for .505" bulkhead connectors	TPC-1C
Insulating shoulder washer for .505" bulkhead connectors	HDW-101611
Hex nut for .440" bulkhead connectors	BNC-HN440
Locking washer for .440" bulkhead connectors	BNC-LW440
Insulating shoulder washer for .440" bulkhead connectors	BNC-IW440
2.5 mm x 5 mm Phillips pan head screw for BNC-PC-RRA	SA1089-00

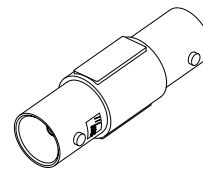


Coax Connectors

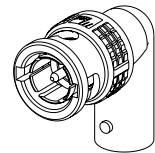
Adapters and Bulkheads

Features

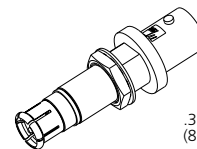
- Improved performance – true 75 Ω characteristic impedance
- Outstanding electrical performance to 3 GHz
- Bulkhead feedthrough available with or without panel isolation
- Meets the performance requirements of MIL-A-55339 for radio frequency coaxial adapters
- Gold-plated, closed-entry contact center conductor to prevent damage during test or mating plug termination



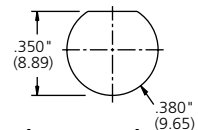
Straight Adapter
(BNC-STRT-ADPT)



Right Angle Adapter
(BNC-RA-ADP)

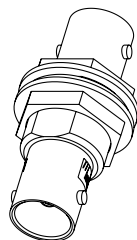


Bulkhead Male to Female
(BHFT-MF)

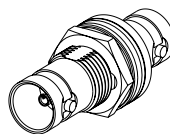


Ordering Information

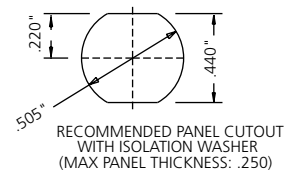
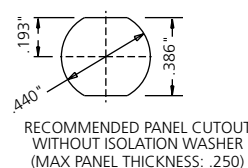
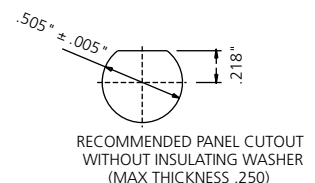
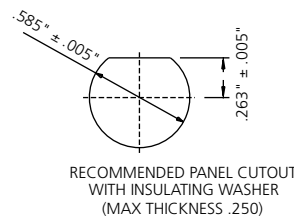
Description		Catalog Number
BNC Adapters		
BNC straight adapter		BNC-STRT-ADPT
BNC right angle adapter		BNC-RA-ADP
BNC to BNC Bulkhead Feedthrough		
for .505"/.585" cutout		BHFT1
for .440"/.505" cutout		BHFT-I2
with panel isolation washers		BHFT-I1
Bulk 100 pack version of above		BHFT-I1B
Bulkhead Male to Female		BHFT-MF
Bulkhead Feedthrough Adapters		
F to BNC	No hardware	BHFT0-FB
	With hardware	BHFT1-FB
	Insulated with hardware	BHFT-FB-I1
	Insulated with hardware, bulk 100 count	BHFT-FB-I1-B
F to F	No hardware	BHFT0-FF
	With hardware	BHFT1-FF
	Insulated with hardware	BHFT-FF-I1
	Insulated with hardware, bulk 100 count	BHFT-FF-I1-B



BNC to BNC Bulkhead Feedthrough
(BHFT-I1)



(BHFT-I2)



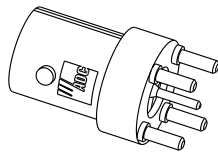


Coax Connectors

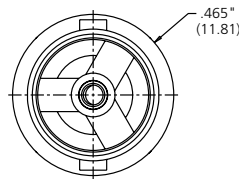
PCB Mount BNC Connectors

Ordering Information

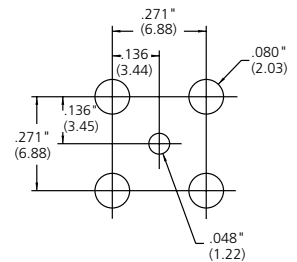
Description	Catalog Number
BNC PCB mount straight staked	BNC-PC-V1
BNC PCB mount threaded right angle	BNC-PC-RTRA
BNC PCB mount threaded straight	BNC-PC-STRT
BNC PCB mount right angle screw mount	BNC-PC-RRA
BNC PCB mount right angle screw mount with screw	BNC-PC-RRA-1
BNC square panel mount	BNC-BHJ-PNL-3TMX



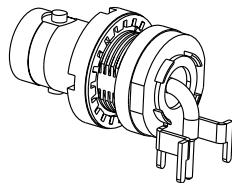
BNC-PC-V1



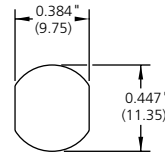
Hole Cutout



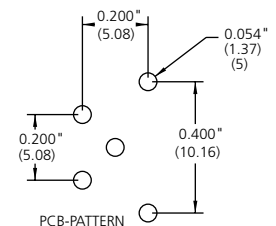
Mounting Template



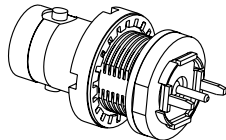
BNC-PC-RTRA



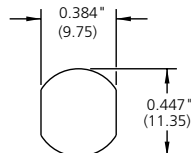
Hole Cutout



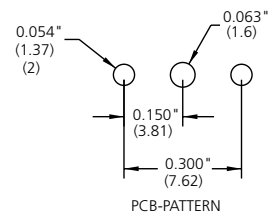
Mounting Template



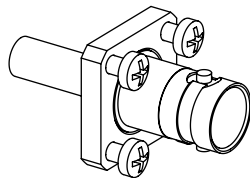
BNC-PC-STRT



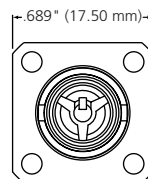
Hole Cutout



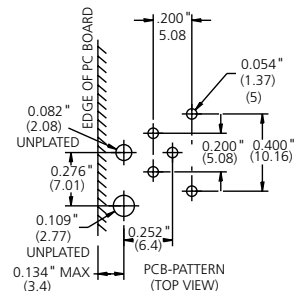
Mounting Template



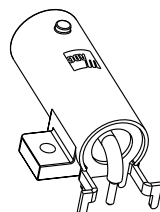
BNC-BHJ-PNL-3TMX



Hole Cutout



Mounting Template



BNC-PC-RRA



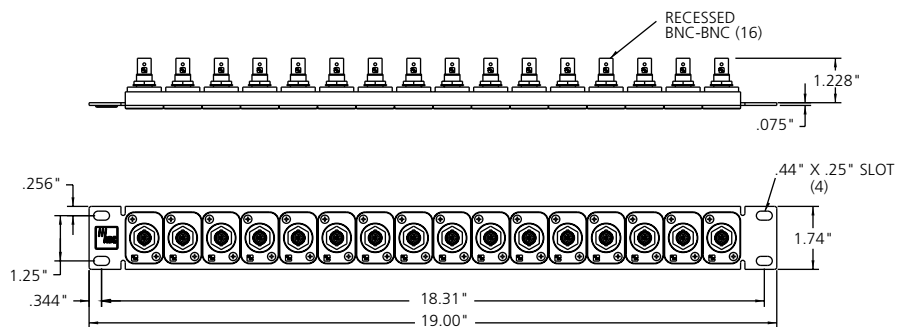
Coax Connectors

Recessed Panels and Connectors

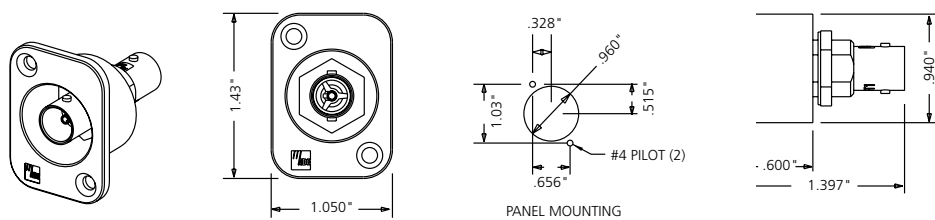
Ordering Information

Description	Catalog Number
Recessed Panels; 16-position empty 1 RU – for BHFT-R-X	
Black	BHFT-PNL-16-BK
Gray	BHFT-PNL-16-G
Recessed Connectors	
BNC, 75 Ω feedthrough	BHFT-R-X*
RCA	RCA-R-X*
S-Video	SV-R-X*
RJ45 Category 5e	BHFT-CAT5E-X*
RJ45 Category 6	BHFT-CAT6-X*

* Replace X in Catalog Number with desired color. (G=green, R=red, B=black, BL=blue, W=white, Y=yellow)



Recessed BNC Panel
(BHFT-PNL-16-BK)

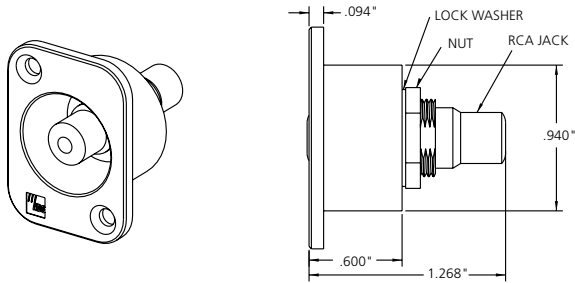


Recessed BNC Connector
(BHFT-R-X)

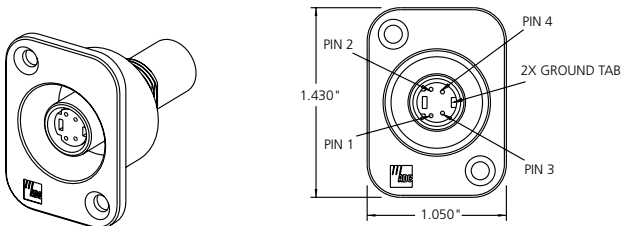


Coax Connectors

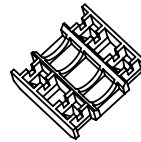
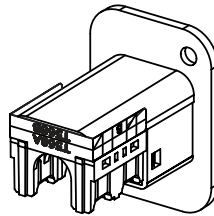
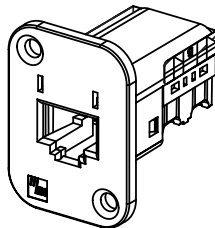
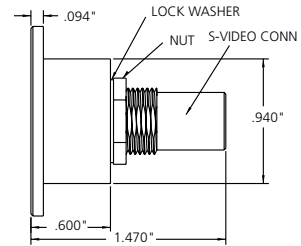
Recessed Panels and Connectors



Recessed RCA Connector
(RCA-R-X)



Recessed S-Video Connector
(SV-R-X)



Recessed RJ45 Jack
(BHFT-CAT5E-X, BHFT-CAT6-X)



Coax Connectors

Tools

Features

- Durable ergonomic handle provides greater comfort
- Fully adjustable for preloading to maintain die set alignment
- Exceptional life, rated for 100,000 crimp cycles
- Available in two handle sizes
- Highest mechanical advantage in the industry, reduces fatigue during crimping
- Precision-manufactured by Pressmaster in Sweden



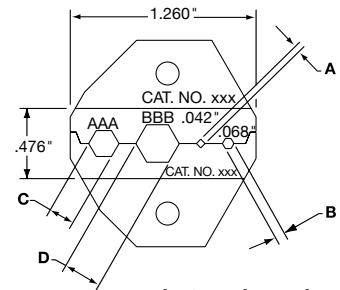
BNC Crimping Tool
(WT-2)



BNC Insertion Tool
(BT2000-12)



**12 Point
Crimp Tool**
(WT-C 12)



Die Set Dimensions

Ordering Information

Description	Catalog Number
Crimp Tools for ADC die sets	
Ergonomic handle	WT-2
Long ergonomic handle	WT-3
BNC Insertion Tool	
6" handle	BT2000-06
12" handle	BT2000-12
24" handle	BT2000-24
F Connector Insertion Tool with 6" handle	SC-FG
Crimp Tool , 12 point For BNC, F, RCA and LCC	WT-C 12

BNC, F and RCA and LCC Die Sets

Ordering Information

Description	Catalog Number			
"A" Center Wire	"B" Center Wire	"C" Crimp Sleeve	"D" Crimp Sleeve	Die Set
.042"/1.07 mm	.068"/1.73 mm	0.255"/6.48 mm	0.324"/8.23 mm	WD-1
.042"/1.07 mm	.068"/1.73 mm	0.178"/4.52 mm	0.255"/6.48 mm	WD-2
.042"/1.07 mm	.068"/1.73 mm	0.197"/5.00 mm	0.255"/6.48 mm	WD-3
.042"/1.07 mm	.068"/1.73 mm	0.197"/5.00 mm	0.278"/7.06 mm	WD-4
.042"/1.07 mm	.068"/1.73 mm	0.255"/6.48 mm	0.278"/7.06 mm	WD-5
.068"/1.73 mm	-	0.384"/9.76mm	-	WD-6
.042"/1.07 mm	.068"/1.73 mm	0.178"/4.52 mm	0.278"/7.06 mm	WD-7
.042"/1.07 mm	.068"/1.73 mm	0.255"/6.48 mm	0.324"/8.23 mm	WD-1-SER*
.042"/1.07 mm	.068"/1.73 mm	0.178"/4.52 mm	0.255"/6.48 mm	WD-2-SER*

* SER units feature a unique serial number that imprints on the crimp sleeve.
This is useful for tracking tooling or installation quality.



Coax Connectors

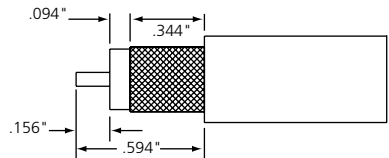
Tools

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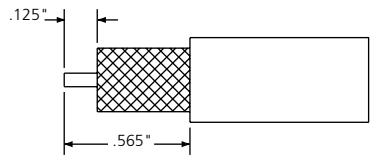
Ordering Information			
Description	RG	Connector Type	Catalog Number
Cable Stripper Tool Kit			
Complete Manual Stripper Tool Kit; Includes stripper cassette, memory and tool	187	BNC-3, BNC-7, BNC-12, BNC-13, BNC-16, BNC-2	STC-13B
	59	BNC-1, BNC-2, BNC-6, BNC-10	STC-12B
	6	BNC-4, BNC-5, BNC-8, BNC-9, BNC-11, BNC-17	STC-11B
	11	BNC-25	STC-25B
Individual Tools			
Stripper Cassette Replacement cutting blades for the manual stripper tool		All except BNC-25	CCS-BLK
Memory for Manual Stripper Tool Determines how deep each blade on the stripper cassette will cut into cable. Can be adjusted for most cable types.		BNC-4, BNC-5, BNC-8, BNC-9, BNC-11	CCS-1
		BNC-1, BNC-2, BNC-6, BNC-10	CCS-2
		BNC-3, BNC-7, BNC-12, BNC-1	CCS-3
		BNC-25	CCS-25-2B
Empty Tool Handle Requires memory and stripper cassette		All except BNC-25	STC-1



Complete Manual Stripper Tool Kit
(STC-12B)



BNC,F, and RCA Plug Strip Length
(All BNC Plug Connectors except BNC-25 and BNC-24)



BNC Plug Strip Length
(For BNC-25 and BNC-24)

Coax Connectors



Coax Connectors

Tools

Ordering Information

Description	Connector Type	Catalog Number
Connection Tool Kit for BNC Connectors Includes: • Crimp tool (WT-2) • BNC crimp die set for 735, RG59 and 734 cables (WD-2) • Stripping tool with cassette for 735/0222 cables (STC-13B) • Stripping tool with cassette for RG59/734 cables (STC-12B) • Cable termination tray (LCA-000009) • Insertion/withdrawal tool for BNC connector (BT2000) • Carrying case		BNC-TOOL-1
Motorized Cable Stripper Kit Includes Nicad battery pack, stripper body, AC/DC charger, ABS plastic carrying case, instruction manual	All except BNC-25	BNC-S1-KIT
Cutter Heads for motorized cable stripper	BNC-1, BNC-2 BNC-6, BNC-8, BNC-9, BNC-10, BNC-H5, BNC-11	BNC-H2
	BNC-3, BNC-7, BNC-12, BNC-13	BNC-H5
Battery Pack for motorized cable stripper		BNC-S1-BAT
Motorized Cable Stripper		BNC-S1



Connection Tool Kit
(CBNC-TOOL-1)



Motorized Cable Stripper
(BNC-S1 with Cutter Head)



Motorized Cable Stripper Kit
(BNC-S1-KIT)



Coax Connectors

Boots

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Catalog Number		
COAX-BOOT - - -		
Cable Group		
1	(BNC-1* & Other)	
3	(BNC-3* & Other)	
4	(BNC-4* & Other)	
5	(BNC-5* & Other)	
8	(BNC-8* & Other)	
13	(BNC-13* & Other)	
26	(BNC-26* & Other)	
31	(BNC-31* & Other)	
Quantity		
A	25	
B	100	
C	500	
Color		
BK	Black	
B	Blue	
G	Green	
R	Red	
V	Violet	
W	White	
Y	Yellow	

can be used for any variety of connector Example: BNC-1; CF-1; CRCSAG 1; LGS 1; LGS 1



Coax Boots

*Boots can be used for any variety of ADC connector Example: BNC-1; CF-1; CRCA-1; CRCAG-1; LCC-1; LCP-1

Ordering Information

Current LCP	Current LCC	Current RCA	Current F	Current BNC	ADC Groups	Catalog Number***
-	LCC-1 LCC-2	CRCA-1 CRCA-2	CF-1	BNC-1 BNC-2 BNC-6 BNC-15 BNC-20	1 2 6 15 20	COAX-BOOT-1-XX-Y
LCP-3	LCC-3	-	-	BNC-3 BNC-19 BNC-28	3 19 28	COAX-BOOT-3-XX-Y
-	-	CRCA-4	CF-9* CF-29	BNC-4 BNC-9* BNC-29	4 9 29	COAX-BOOT-4-XX-Y
-	-	CRCA-5 CRCA-8 ⁽¹⁾ CRCAG-8	CF-5 CF-8 ⁽¹⁾ CF-9**	BNC-5 BNC-9** BNC-11 BNC-17	5 9 11 17	COAX-BOOT-5-XX-Y
-	-	-	-	BNC-8 BNC-10	8 10	COAX-BOOT-8-XX-Y
LCP-13	LCC-13	CRCA-13 CRCAG-13	CF-13	BNC-7 BNC-12 BNC-13 BNC-14 BNC-22	7 12 13 14 22	COAX-BOOT-13-XX-Y
-	-	-	-	BNC-3TMX BNC-18 BNC-26	18 26	COAX-BOOT-26-XX-Y
LCP-31	LCC-31	CRCA-16	CF-31	BNC-16 BNC-21 BNC-31 BNC-32	16 21 31 32	COAX-BOOT-31-XX-Y

* For cable outer diameter greater than .285

** For cable outer diameter smaller than .285

*** Replace XX with color; Replace Y with quantity

⁽¹⁾ CF-8 and CRCA-8 use an exception to Group 8



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ProAx® Triax Camera Connectors

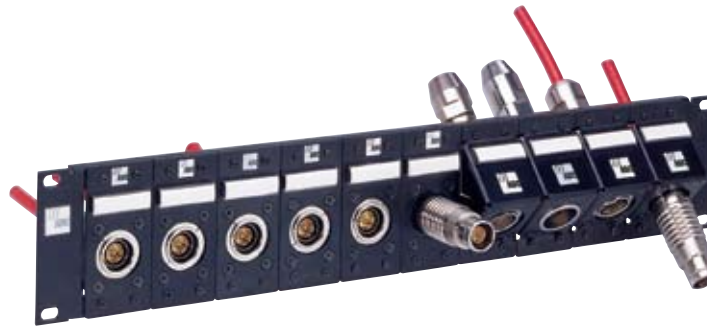


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ProAx® Triaxial Camera Connectors

Introduction



For years, the industry has been locked into connector designs that are difficult to terminate, and even more difficult to field repair. ADC's line of ProAx® Triaxial Camera Connectors will change the way you think about this component forever. These connectors have innovative features such as gender/type changability field repairable center conductors that eliminate the need to restrip, o-rings that protect the signal path against moisture, fewer parts to assemble, and compatibility with the tooling you already own.

Field Repairable

Triax connectors can really take a beating—especially in field applications where dirt, sand and moisture are everywhere. When the female center conductor breaks, or the male latches are worn, the entire assembly must be cut off and reterminated.

Using a two-piece center conductor and a housing assembly that can easily be replaced in the field without having to restrip and reterminate the entire connector, the patented ADC ProAx triax connector allows you to simply replace a damaged portion of the connector with common tools. When a repair is needed, the outer shell

and insulator can be removed; next you simply unscrew the center conductor housing and replace the center conductor assembly, reversing the process to assemble. Absolutely no stripping or crimp tools are required.

Gender Reversible

With ADC's ProAx triax connectors, gender parts can be swapped back and forth between males and females in only a few seconds. This process eliminates common problems such as when you've just run a thousand feet of triax only to discover the male is where the female should be. Simply trade the male for the female and continue with your project.

Format Reversible

With ADC's U.S. and six international standard (Global, BBC, Reverse BBC, French, German and Japanese) versions, O.B. vans and internationally televised events no longer mean headaches for camera technicians. ADC's patented ProAx triax connectors can be format reversed between U.S. and global formats in only seconds. Plus, ADC's ProAx triax connectors are designed to fit standard U.S. triax cables as well as global metric cables.



ProAx® Triaxial Camera Connectors

Cable Mount

Applications

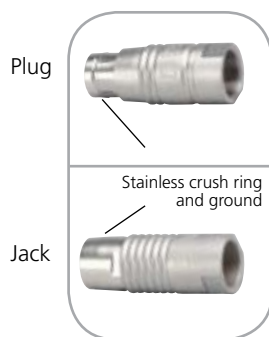
High-Definition Ready True 75 Ω Impedance

The ADC ProAx® triax connector line is designed for maximum bandwidth for serial digital and high-definition digital applications while maintaining a true 75 Ω impedance. All critical path components are gold-plated for outstanding durability and connectivity.

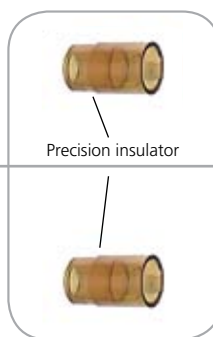
ProAx® Triaxial Camera Connectors

Gender/Type Changer Connector Assembly

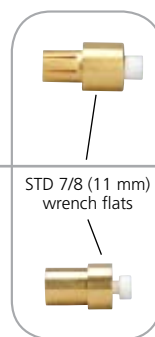
(global standard shown)



Outer Shell Assembly

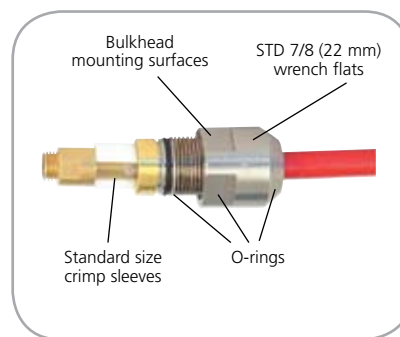


Insulator



Center Conductor
Assembly

Universal Backshell Cable Dependent



Solid Outer Shield Ground

The solid outer braid ground in the ProAx triax connector maintains the ground no matter what the conditions. This eliminates camera shutdown from intermittent grounds, as well as the need for special conductive gaskets between the male and female connectors.

Sturdy Construction

Each female ProAx triax connector is made of machined brass with stainless steel crush rings to assure maximum crush strength. The assembly will not go out of round under typical mobile application wear and tear.

Patented Panel-Mount System

Each ProAx triax connector can be either cable-mounted or panel-mounted with our patented mounting kit. The mounting kit securely fastens the male or female connector to a steel plate that is attached to standard panels. Two different mounting options are available: a unique 45° and the standard 90° straight. ADC's angled 45° mounting option reduces the weight of the cables on the connectors providing less strain on the connectors than the traditional 90° mounting. Mounting yokes are available separately for custom metalwork applications.

Compatibility

ProAx triax connectors are engineered to be compatible with other industry triaxial connectors from Kings Electronics Co. Inc., Fischer Connectors Holding S.A., LEMO SA, Tajimi, and Damar & Hagen, as well as standard industry tools and dies.



ProAx® Triaxial Camera Connectors

Cable Mount



**American Standard
A-Series**

Equivalent: Kings



**Global Standard
G-Series**

Equivalent: Fischer Connectors® Series 1051 A004*



**BBC Standard
B-Series**

Equivalent: Lemo 4M



**Reverse BBC Standard
N-Series**

Equivalent: Lemo 4E



**French Standard
L-Series**

Equivalent: Lemo 3T



**Japanese Standard
J-Series**

Equivalent: Tajimi



**German Standard
D-Series**

Equivalent: Damar & Hagen

Standard	Equivalent	Series
American	Kings	A
Global	Fischer	G
BBC	Lemo 4M	B
Reverse BBC	Lemo 4E	N
French	Lemo 3T	L
Japanese	Tajimi	J
German	Damar & Hagen	D

* Fischer connector series 1051 A004 is a registered trademark of Fischer Connectors Holding S.A.



ProAx® Triaxial Camera Connectors

Cable Mount

This system offers the flexibility of choosing/changing gender and type after terminating the cable. Ordering the gender changer kit and cable mount backshell separately results in reduced mistakes and repairs in the field. When a complete connector is ordered it is comprised of a gender changer kit (series and gender specific) and cable mount backshell (cable size specific).

Gender Changer Kits

Kits include all parts needed for changing gender and series.



Gender Changer Kit
(global standard shown)

Ordering Information

Description (Series)	Gender	Catalog Number
Gender Changer Kits		
American	Female jack	ATRK-GCF
	Male plug	ATRK-GCM
Global	Female jack	GTRK-GCF
	Male plug	GTRK-GCM
BBC	Female jack	BTRK-GCF-50*
	Male plug	BTRK-GCM-50*
Reverse BBC	Female jack	NTRK-GCF-75*
	Male plug	NTRK-GCM-75*
French	Female jack	LTRK-GCF
	Male plug	LTRK-GCM
Japanese	Female jack	JTRK-GCF
	Male plug	JTRK-GCM
German	Female jack	DTRK-GCF
	Male plug	DTRK-GCM

*Available with 75 Ω or 50 Ω options.

Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar&Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Cable Mount

Cable Mount Backshells

Includes all parts needed for cable termination.

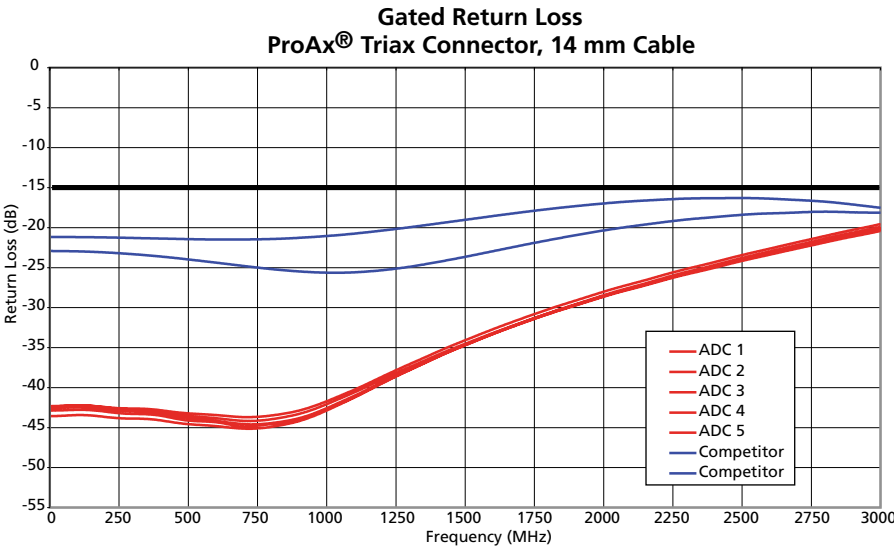


Universal RoHS Compliant Backshell
Cable Size Dependent

Ordering Information

Description	Catalog Number
Universal RoHS Compliant Backshells*	
A12 (1/2"), .475" cables, 75 Ω	GTRK-BS-A12
B38 (3/8"), .360" cables, 75 Ω	GTRK-BS-B38
C12 (1/2"), .520" cables, 75 Ω	GTRK-BS-C12
D38 (3/8"), .410" cables, 75 Ω	GTRK-BS-D38
E38 (3/8"), .315" cables, 75 Ω	GTRK-BS-E38
F14 (1/4"), .246" cables, 75 Ω	GTRK-BS-F14
G8 (8 mm) cables, 75 Ω	GTRK-BS-G8
H11 (11 mm) cables, 75 Ω	GTRK-BS-H11
K14 (14 mm) cables, 75 Ω	GTRK-BS-K14
M9 (9 mm) cables, 75 Ω	GTRK-BS-M9
N12 (12 mm) cables, 75 Ω	GTRK-BS-N12
P13 (13 mm) cables, 75 Ω	GTRK-BS-P13

*See page 151 and 152 to cross reference your cable type with ADC's cable code and for additional cable sizes.



Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar&Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.

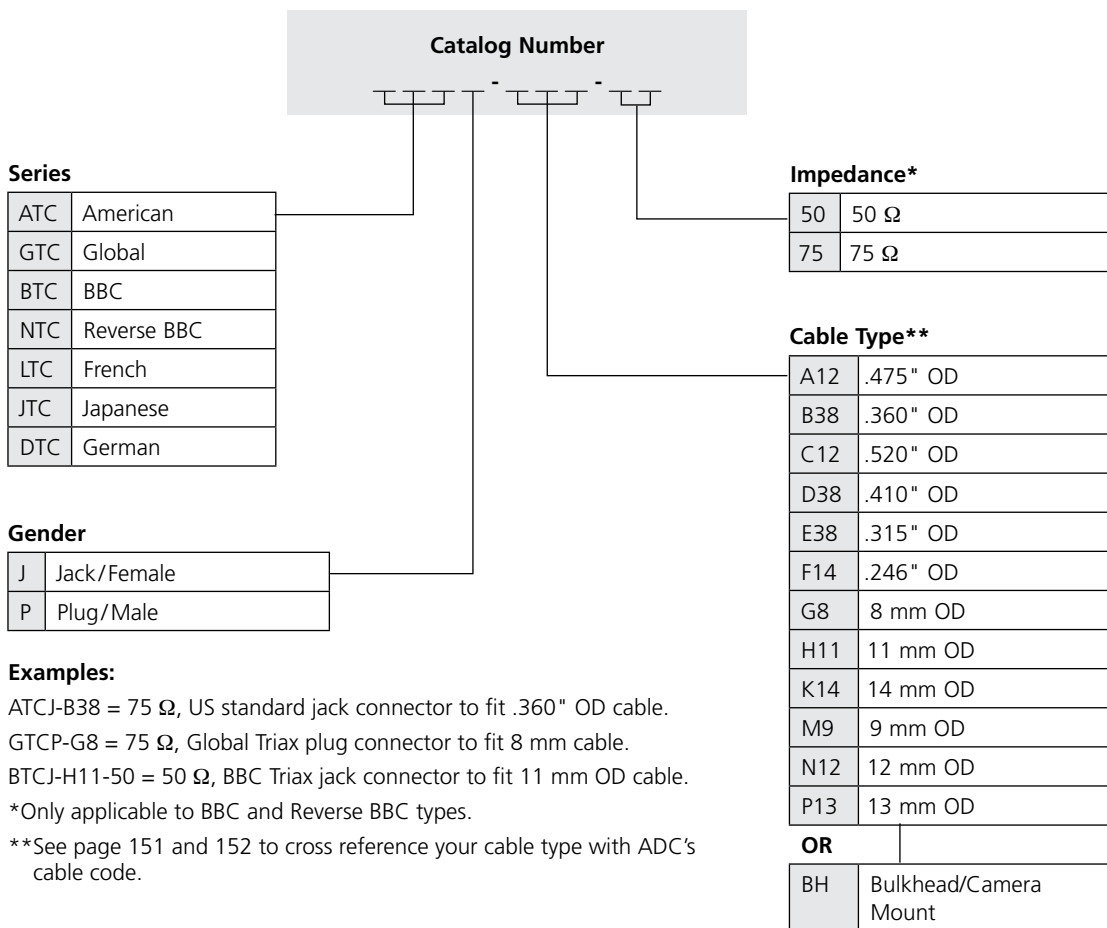


ProAx® Triaxial Camera Connectors

Cable Mount

Complete Connectors

ADC ProAx® triax connectors are available in US and six international formats. Use the following model to determine the catalog ordering number for your specific product needs.



Examples:

ATCJ-B38 = 75 Ω, US standard jack connector to fit .360" OD cable.

GTCJ-G8 = 75 Ω, Global Triax plug connector to fit 8 mm cable.

BTCJ-H11-50 = 50 Ω, BBC Triax jack connector to fit 11 mm OD cable.

*Only applicable to BBC and Reverse BBC types.

**See page 151 and 152 to cross reference your cable type with ADC's cable code.

Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar&Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Cable Mount



American Triax Camera Connectors

Ordering Information

Description	Catalog Number	
	Jack	Plug
American Triax Complete Camera Connectors**		
A12 (1/2"), .475" cables, 75 Ω	ATCJ-A12	ATCP-A12
B38 (3/8"), .360" cables, 75 Ω	ATCJ-B38	ATCP-B38
C12 (1/2"), .520" cables, 75 Ω	ATCJ-C12	ATCP-C12
D38 (3/8"), .410" cables, 75 Ω	ATCJ-D38	ATCP-D38
E38 (3/8"), .315" cables, 75 Ω	ATCJ-E38	ATCP-E38
F14 (1/4"), .246" cables, 75 Ω	ATCJ-F14	ATCP-F14

**See page 151 to cross reference your cable type with ADC's cable code.

Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar & Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Cable Mount

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Ordering Information

Description (Series)	Gender	Cable Type**	Catalog Number
International Triax Complete Camera Connectors			
Global 	Female jack	G8 (8 mm) cables	GTCJ-G8
		H11 (11 mm) cables	GTCJ-H11
		K14 (14 mm) cables	GTCJ-K14
	Male plug	G8 (8 mm) cables	GTCP-G8
		H11 (11 mm) cables	GTCP-H11
		K14 (14 mm) cables	GTCP-K14
BBC 	Female jack	G8 (8 mm) cables	BTCJ-G8-50*
		H11 (11 mm) cables	BTCJ-H11-50*
		K14 (14 mm) cables	BTCJ-K14-50*
	Male plug	G8 (8 mm) cables	BTCP-G8-50*
		H11 (11 mm) cables	BTCP-H11-50*
		K14 (14 mm) cables	BTCP-K14-50*
Reverse BBC 	Female jack	G8 (8 mm) cables	NTCJ-G8-75*
		H11 (11 mm) cables	NTCJ-H11-75*
		K14 (14 mm) cables	NTCJ-K14-75*
	Male plug	G8 (8 mm) cables	NTCP-G8-75*
		H11 (11 mm) cables	NTCP-H11-75*
		K14 (14 mm) cables	NTCP-K14-75*
French 	Female jack	G8 (8 mm) cables	LTCJ-G8
		H11 (11 mm) cables	LTCJ-H11
		K14 (14 mm) cables	LTCJ-K14
	Male plug	G8 (8 mm) cables	LTCP-G8
		H11 (11 mm) cables	LTCP-H11
		K14 (14 mm) cables	LTCP-K14
Japanese 	Female jack	G8 (8 mm) cables	JTCJ-G8
		H11 (11 mm) cables	JTCJ-H11
		K14 (14 mm) cables	JTCJ-K14
	Male plug	G8 (8 mm) cables	JTCP-G8
		H11 (11 mm) cables	JTCP-H11
		K14 (14 mm) cables	JTCP-K14
German 	Female jack	G8 (8 mm) cables	DTCJ-G8
		H11 (11 mm) cables	DTCJ-H11
		K14 (14 mm) cables	DTCJ-K14
	Male plug	G8 (8 mm) cables	DTCP-G8
		H11 (11 mm) cables	DTCP-H11
		K14 (14 mm) cables	DTCP-K14

*Available with 75 Ω or 50 Ω options.

**See page 152 to cross reference your cable type with ADC's cable code and for additional cable sizes. Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Cable Mount



Center Conductor Repair Kit
(american standard shown)



Outer Shell Repair Kit
(global standard shown)

Ordering Information

Description (Series)	Gender	Catalog Number
Center Conductor Repair Kits		
American	Female jack	TRK-FF
	Male plug	TRK-FM
Global	Female jack	GTRK-FF
	Male plug	GTRK-FM
BBC and Reverse BBC	Female jack	BNTRK-FF-50
		BNTRK-FF-75
	Male plug	BNTRK-FM-50
		BNTRK-FM-75
French	Female jack	LTRK-FF
	Male plug	LTRK-FM
Japanese	Female jack	JTRK-FF
	Male plug	JTRK-FM
German	Female jack	DTRK-FF
	Male plug	DTRK-FM
Outer Shell Repair Kits		
American	Female jack	ATRK-FOS
	Male plug	ATRK-MOS
Global	Female jack	GTRK-FOS
	Male plug	GTRK-MOS
BBC	Female jack	BTRK-FOS
	Male plug	BTRK-MOS
Reverse BBC	Female jack	NTRK-FOS
	Male plug	NTRK-MOS
French	Female jack	LTRK-FOS
	Male plug	LTRK-MOS
Japanese	Female jack	JTRK-FOS
	Male plug	JTRK-MOS
German	Female jack	DTRK-FOS
	Male plug	DTRK-MOS

Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar & Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Cable Mount

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Rear Re-termination Repair Kit

Ordering Information

Description	Catalog Number
Rear Re-termination Repair Kits (only parts required for retermination)	
Size A12 and D38	GTRK-RAD
Size B38, E38 and F14	GTRK-RBEF
Size C12	GTRK-RC
Size G8	GTRK-RG
Size H11	GTRK-RH
Size K14	GTRK-RK
Size M9	GTRK-RM
Size N12	GTRK-RN
Size P13	GTRK-RP

Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar&Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Cable Mount

Protective Weather Boots

ADC's triax weather boots provide ultimate protection for your triax connector investment.

Features

- Sealed to IP67 specification
- Available for all connector formats
- Feature a weather-tight patent pending lip-over seal protection
- Each boot is adjustable to fit any cable size
- Mating cap is attached via stainless steel lanyard, and is hermaphroditic for both male (plug) and female (jack) boots
- Made of a special high-performance UL rated rubber compound that can withstand extreme temperature ranges from -45 °C to +55 °C



Boot with Cap



Cap



Global (G-Series) Triax Connectors with Boots

Ordering Information

Description (Series)	Gender	Catalog Number
Protective Weather Boot with Cap		
American, BBC and Reverse BBC	Female jack	BNTCJ-BOOT
	Male plug	BNTCP-BOOT
Global	Female jack	GTCJ-BOOT
	Male plug	GTCP-BOOT
French	Female jack	LTCJ-BOOT
	Male plug	LTCP-BOOT
German; caps are metallic	Female jack	DTCJ-BOOT
	Male plug	DTCP-BOOT
Protective Weather Cap		
American, BBC and Reverse BBC		BNTC-CAP
Global		GTC-CAP
French		LTC-CAP
German; caps are metallic	Female jack	DTCJ-CAP
	Male plug	DTCP-CAP

Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar & Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Bulkhead Mount

ADC's slim-line versions of its seven triax formats are specifically engineered for OEM camera use and low-profile bulkhead mounting. These new bulkhead connectors retain gender flexibility, field repairability and format reversible features that ensure high-performance.

Features

- Solder-style termination
- Connectors are gender and format interchangeable
- Field repairable without having to replace the connector or open the camera
- Compatible with industry-standard triaxial connectors
- Reverses between US and six international formats in just seconds
- Qualified to demanding MIL-STD 202



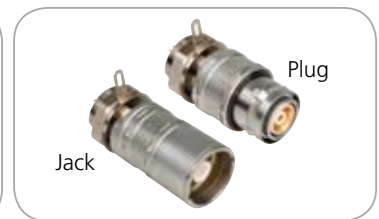
**American Standard
A-Series**

Equivalent: Kings



**Global Standard
G-Series**

Equivalent: Fischer Connectors®
Series 1051 A004*



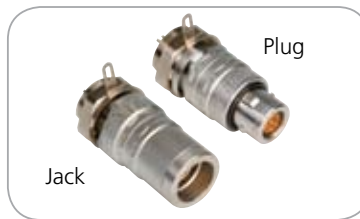
**BBC Standard
B-Series**

Equivalent Lemo 4M



**Reverse BBC Standard
N-Series**

Equivalent: Lemo 4E



**French Standard
L-Series**

Equivalent: Lemo 3T



**Japanese Standard
J-Series**

Equivalent: Tajimi



**German Standard
D-Series**

Equivalent: Damar & Hagen

* Fischer connector series 1051 A004 is a registered trademark of Fischer Connectors Holding S.A.

Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar & Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Bulkhead Mount

10/09 • 102117AE Broadcast and Entertainment Products

ProAx Triax Connectors

Ordering Information

Description (Series)	Gender	Catalog Number
Bulkhead/Camera Mount Triax Complete Camera Connectors (solder type)		
American	Female jack	ATCJ-BH
	Male plug	ATCP-BH
Global	Female jack	GTCJ-BH
	Male plug	GTCP-BH
BBC	Female jack	BTCJ-BH-50*
	Male plug	BTCP-BH-50*
Reverse BBC	Female jack	NTCJ-BH-75*
	Male plug	NTCP-BH-75*
French	Female jack	LTCJ-BH
	Male plug	LTCP-BH
Japanese	Female jack	JTCJ-BH
	Male plug	JTCP-BH
German	Female jack	DTCJ-BH
	Male plug	DTCP-BH

Ordering Information

Description (Series)	Gender	Catalog Number
Triax Camera Connector Repair Kits for Bulkhead Gender Changer Kits		
American	Female jack	ATRK-GCF-BH
	Male plug	ATRK-GCM-BH
Global	Female jack	GTRK-GCF-BH
	Male plug	GTRK-GCM-BH
BBC	Female jack	BTRK-GCF-BH-50*
	Male plug	BTRK-GCM-BH-50*
Reverse BBC	Female jack	NTRK-GCF-BH-75*
	Male plug	NTRK-GCM-BH-75*
French	Female jack	LTRK-GCF-BH
	Male plug	LTRK-GCM-BH
Japanese	Female jack	JTRK-GCF-BH
	Male plug	JTRK-GCM-BH
German	Female jack	DTRK-GCF-BH
	Male plug	DTRK-GCM-BH
Universal Rear Unit Panel Mount (solder-type)		TRK-RU-BH

*Available with 75 Ω or 50 Ω options.



Universal Rear Unit

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Bulkhead Mount



Center Conductor Repair Kit

Ordering Information

Description (Series)	Gender	Catalog Number
Center Conductor Repair Kits		
American	Female jack	TRK-FF
	Male plug	TRK-FM
Global	Female jack	GTRK-FF
	Male plug	GTRK-FM
BBC and Reverse BBC	Female jack	BNTRK-FF-50
		BNTRK-FF-75
	Male plug	BNTRK-FM-50
		BNTRK-FM-75
French	Female jack	LTRK-FF
	Male plug	LTRK-FM
Japanese	Female jack	JTRK-FF
	Male plug	JTRK-FM
German	Female jack	DTRK-FF
	Male plug	DTRK-FM
Outer Shell Repair Kits		
American	Female jack	ATRK-BH-FOS
	Male plug	ATRK-BH-MOS
Global	Female jack	GTRK-BH-FOS
	Male plug	GTRK-BH-MOS
BBC	Female jack	BTRK-BH-FOS
	Male plug	BTRK-BH-MOS
Reverse BBC	Female jack	NTRK-BH-FOS
	Male plug	NTRK-BH-MOS
French	Female jack	LTRK-BH-FOS
	Male plug	LTRK-BH-MOS
Japanese	Female jack	JTRK-BH-FOS
	Male plug	JTRK-BH-MOS
German	Female jack	DTRK-BH-FOS
	Male plug	DTRK-BH-MOS

Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar&Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Mounting Solutions and Accessories

10/09 • 102117AE Broadcast and Entertainment Products

ProAx Triax Connectors

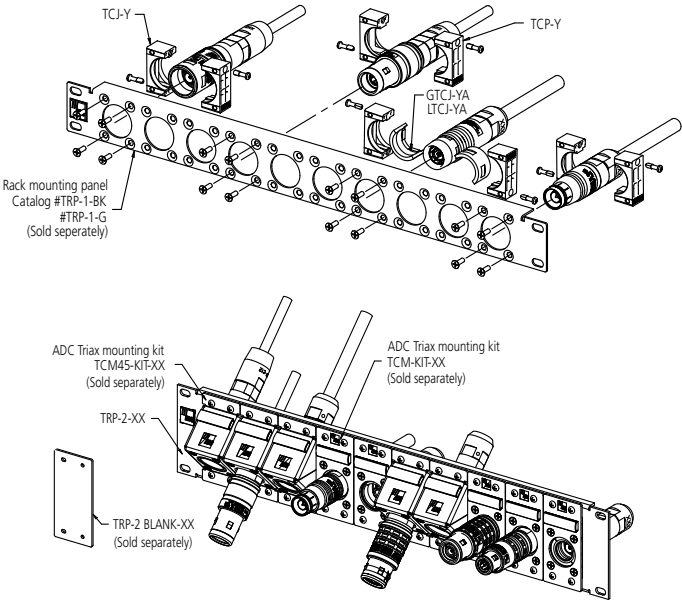
Ordering Information

Description		Color	Catalog Number
Cable Mounting Solutions			
Panel 1 RU empty; for up to 10 connectors, requires connectors and yoke kits, sold separately		Black	TRP-1-BK
		Gray	TRP-1-G
Yoke clamp	Female ProAx® jacks	–	TCJ-Y
	Male ProAx® plugs	–	TCP-Y
Yoke clamp adapter**	G-Series jacks	–	GTCJ-YA
	L-Series, D-Series, J-Series jacks and D-Series plugs	–	LTCJ-YA
Panel 2 RU empty; for up to 10 TCM kits, requires connectors and TCM kits, sold separately		Black	TRP-2-BK
		Gray	TRP-2-G
Universal panel mount kit; mounts in TRP-2 panel (includes yoke clamps)	Straight	Black	TCM-KIT-BK
		Gray	TCM-KIT-G
	45 degree	Black	TCM45-KIT-BK
		Gray	TCM45-KIT-G
Blank cover		Black	TRP-2BLANK-BK
		Gray	TRP-2BLANK-G

Yoke clamp kits for ADC catalog numbers. <i>Includes two half Yokes per kit.</i>	
*TCJ-Y	ATCJ-XXX **GTCJ-XXX BTCJ-XXX NTCJ-XXX **LTCJ-XXX **JTCJ-XXX **DTCJ-XXX
*TCP-Y	ATCP-XXX GTCP-XXX BTCP-XXX NTCP-XXX LTCP-XXX JTCP-XXX **DTCP-XXX

Yoke adapter kits for ADC catalog numbers. <i>Includes two half Yoke adapter claspers per kit.</i>	
GTCJ-YA	GTCJ-XXX
LTCJ-YA	LTCJ-XXX DTCJ-XXX DTCP-XXX JTCJ-XXX

* Included in TCM kits
** Req's Yoke adapter (sold separately)



Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar & Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.

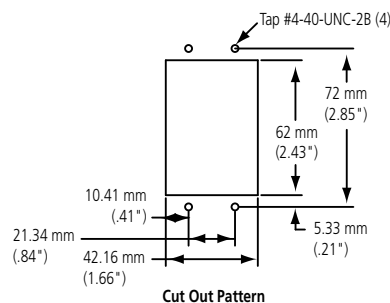
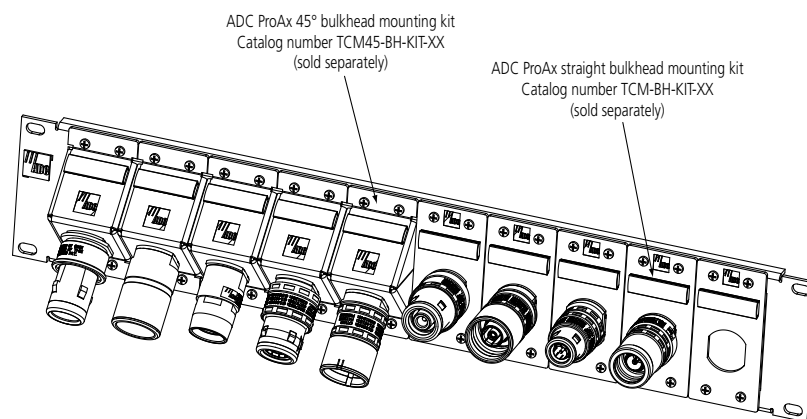


ProAx® Triaxial Camera Connectors

Mounting Solutions and Accessories

Ordering Information

Description		Color	Catalog Number
Bulkhead Mounting Solutions			
Panel 2 RU empty; for up to 10 TCM kits, requires connectors and TCM-BH kits, sold separately		Black	TRP-2-BK
		Gray	TRP-2-G
Universal panel mount kit; mounts in TRP-2 rack mount	Straight	Black	TCM-BH-KIT-BK
		Gray	TCM-BH-KIT-G
	45 degree	Black	TCM45-BH-KIT-BK
		Gray	TCM45-BH-KIT-G
Blank cover		Black	TRP-2BLANK-BK
		Gray	TRP-2BLANK-G



Legend:

Standard	Equivalent	Series	Standard	Equivalent	Series	Standard	Equivalent	Series
American	Kings	A	BBC	Lemo 4M	B	French	Lemo 3T	L
Global	Fischer	G	Reverse BBC	Lemo 4E	N	Japanese	Tajimi	J
						German	Damar&Hagen	D

Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



ProAx® Triaxial Camera Connectors

Mounting Solutions and Accessories



UTA-1



UTA-2



UTA-KIT

Ordering Information

Description	Dimensions	Catalog Number
Universal Triax Adapter (UTA)		
UTA, adapts any connector type and gender. (Requires gender changer kit – See Pg. 4)		UTA-1
UTA short, adapts any connector type and gender. (Requires BH gender changer kit – See Pg. 13)		UTA-2
UTA kit, includes all triax (male and female) formats, with case (Japanese and German standards sold separately)		UTA-KIT
Empty case for UTA kit		UTA-CASE
Installation tool kits		
American		TRK-TKIT
International (Die sets sold separately)		TRK-GTKIT
Die Sets		
Size A12, D38, H11, N12	9.75 mm x 10.16 mm (.384" x .4")	TD-ADH
Size B38, E38, F14	6.47 mm x 10.16 mm (.255" x .4")	TD-BEF
Size C12	10.89 mm x 10.16 mm (.429" x .4")	TD-C
Size G8, M9	7.06 mm x 10.16 mm (.278" x .4")	TD-G
Size K14	12.09 mm x 10.16 mm (.476" x .4")	TD-K
Crimp Tool; long-handled Pressmaster		WT-3
Wire Stripping Gauge		TRIAX-GAUGE
Thin Feld Wrench		TRIAX-WRENCH

**See page 151 and 152 to cross reference your cable type with ADC's cable code.
Call a distributor for more information. To locate a distributor, visit ADC.com/partners.



Universal Triax Adapter
Assembled

ProAx® Triaxial Camera Connectors

Cable Reference Table

Imperial Cable Types

ADC Cable Code	A12		B38		C12		D38		E38		F14	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
Center Conductor O.D.	0.064	1.63	0.032	0.81	0.064	1.63	0.064	1.63	0.032	0.81	0.032	0.81
Core Insulation O.D.	0.285	7.24	0.143	3.63	0.312	7.92	0.285	7.24	0.143	3.63	0.135	3.43
Inner Braid O.D.	0.315	8.00	0.176	4.47	.0332	8.43	0.315	8.00	0.176	4.47	0.168	4.27
Inner Jacket O.D.	0.380	9.65	0.216	5.49	0.392	9.96	0.345	8.76	0.226	5.74	0.184	4.67
Outer Braid O.D.	0.395	10.03	0.250	6.35	0.422	10.72	0.375	9.53	0.256	6.50	0.215	5.46
Outer Jacket O.D.	0.475	12.07	0.360	9.14	0.520	13.21	0.410	10.41	0.315	8.00	0.235	5.97
Retermination Kits	GTRK-RA		GTRK-RB		GTRK-RC		GTRK-RD		GTRK-RE		GTRK-RF	
ADC Crimp Die	TD-ADH		TD-BEF		TD-C		TD-ADH		TD-BEF		TD-BEF	
Crimp Tool	WT-3/WT-2*		WT-3/WT-2*		WT-3/WT-2*		WT-3/WT-2*		WT-3/WT-2*		WT-3/WT-2*	
Cable Reference	Belden 8233		Belden 1856A		Belden 1858A		Belden 1859A		Belden 8232		Belden 88232	
	Belden 8233A		Belden 1856B		Belden 9232		Gepco VT618811TK		Belden 8232A			
	Belden 7803A		Belden 1857A		Belden 9192				CommScope 7810			
	CommScope 7820		Belden 9267		Clark Wire TV7511		Nemal 1840					
	CommScope 7827		Clark Wire TV7559		CommScope 7825							
	Gepco VT61811		CommScope 7811		CommScope 7826							
	Gepco VT61811PE		CommScope 7812		Gepco LVT61811							
	Gepco VT61811PE/AP		CommScope 7814		Manhattan M8022							
			Gepco VT61859		Nemal 1820							
	Gepco VT61811PEF		Gepco LVT61859		Nemal 1825							
			Gepco LVT61859S									
	Nemal 1810		Manhattan M8021									
				Nemal 1835		* WT-3 long handle/WT-2 shorthandle						

* WT-3 long handle/WT-2 shorthandle

ProAx® Triaxial Camera Connectors

Cable Reference Table

Metric Cable Types

ADC Cable Code	G8		H11		K14		M9		N12		P13	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
Center Conductor O.D.	0.039	0.99	0.056	1.42	0.087	2.21	0.039	1	0.055	1.4	0.074	1.89
Core Insulation O.D.	0.178	4.52	0.256	6.50	0.382	9.70	0.177	4.5	0.256	6.5	0.323	8.2
Inner Braid O.D.	0.200	5.08	0.284	7.21	0.413	10.49	0.201	5.1	0.280	7.1	0.350	8.9
Inner Jacket O.D.	0.260	6.60	0.344	8.74	0.468	11.89	0.260	6.6	0.339	8.6	0.394	10.0
Outer Braid O.D.	0.282	7.16	0.371	9.42	0.499	12.67	0.283	7.2	0.362	9.2	0.425	10.8
Outer Jacket O.D.	0.331	8.41	0.433	11.00	0.571	14.50	0.350	8.9	0.480	12.2	0.512	13
Retermination Kits	GTRK-RG		GTRK-RH		GTRK-RK		GTRK-RM		GTRK-RN		GTRK-RP	
ADC Crimp Die	TD-G		TD-ADH		TD-K		TD-G		TD-ADH		TD-C + TD-K (for CC)	
Crimp Tool	WT-3/WT-2*		WT-3/WT-2*		WT-3/WT-2*		WT-3/WT-2*		WT-3/WT-2*		WT-3/WT-2*	

Cable Reference	Argosy CT2767300	Argosy CT27674XX	Argosy CT2766700	Draka Triax 8/1	Draka Triax 11/1	Triax B2 (France)
	Argosy CT27679XX	Argosy CT2766XXX	Argosy CT2766704	Triax A2 (France)		
	Argosy CT2765XXX	Argosy CT27681XX	Argosy CT7666700			
	Argosy CT28532XX	Argosy CT2850801	Argosy CT2767000			
	Bedeia 1.0s/4.5s Standard 8	Bedeia 1.4s/6.6s Standard 11	Bedeia Standard 14			
	Bedeia 1.0Ls/4.5s Superflex 8	Bedeia 1.4Ls/6.6s Superflex 11	Bedeia Superflex 14			
	Belden 7783A	Belden 7784AS	Belden 7785A			
	Belden 7801A	BIW 91307	Draka Triax 14			
	Draka Triax 8	Draka Triax 11	Fujikura 9.6/2.22EFTXF			
	Filotex SFP:A2 Video Fixe	Filotex SPF:B2 Video Fixe	Nokia Triax 14			
	Filotex SFP:A2 Video Mobile	Filotex SFP:B2 Video Mobile	Nokia Triflex 14			
	Fujikura 4.8/1.0 EFTXF	Intercond RX 75/56				
	Hirakava Triax 4.8/1.0 Tufret	N.E.K. 63990				
	Intercond RX 75/55	Nokia Triax 11 1.4s/6.6s				
	N.E.K. 23860	Nokia Triflex 11 1.4Ls/6.6s				
	Nokia Triax 8 1.0s/4.5s					
	Nokia Triflex 8 1.0Ls/4.5s					
	Percon Triax 8 Rigid (HF)					
	Percon Triax 8 Flex (HF)					
	Percon Triax 8 Z (Superflex)					
	Percon Triax 8 FRLSHF					

* WT-3 long handle/WT-2 shorthandle



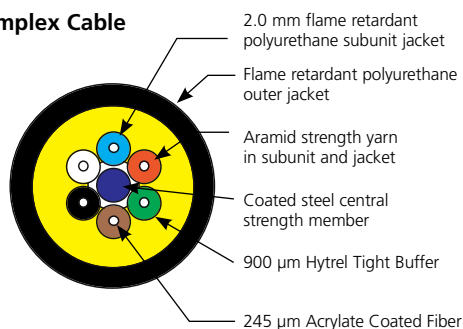
ProAx® Fiber Connector Series

Tactical Fiber Bulk Cable

ADC's ruggedized high-density cables provide factory standard guaranteed performance specifications. They are 100% optically tested and are offered with a variety of optical performance levels.

Specifications

Simplex Cable



Note: Drawing not to scale

Features:

- 245/900 polyester buffer
- Flame retardant polyurethane jacket; meets UL-VW-1
- Extremely rugged
- Superior abrasion resistance
- Excellent performance at extreme temperature
- Compatible with all industry standard connectors
- Available with dual reinforced jackets with aramid yarn served between the jackets

Ordering Information

Description	Catalog Number
Tactical Fiber Bulk Cable;	
Quad Fiber, 9.2 mm, F9A	F4CBL-F9A-BK
Quad Fiber, 12 mm, F12A	F4CBL-F12A-BK

Specifications

MECHANICAL

Crush Resistance:	EIA-FOTP-41A 1200 N/cm
Impact Resistance:	EIA-FOTP-25B 500 Impacts
Flexing:	EIA-FOTP-104A 10,000 Cycles
Maximum Pulling Load:	EIA-FOTP-33A 2000 N
Maximum Operating Load:	1000 N
Min Bend Radius @ Max Load:	15x Cable OD

ENVIRONMENTAL

Storage Temperature:	-55 °C to 85 °C
Operating Temperature:	-40 °C to 85 °C
Installation Temperature:	-40 °C to 85 °C
Low Temp Bend Test:	EIA-FOTP-37A Passed @ -40 °C

Fiber Patching and Management



Fiber Optic Panels	
FL2000 Series	156
FMT Series	165
FPL Series.....	176
RMG Series.....	188
FL1000 Series	196
Fiber Patch Cords.....	207
FiberGuide® Fiber Management System.....	211
Fiber Optic Bulk Cable.....	214



Fiber Patching and Management

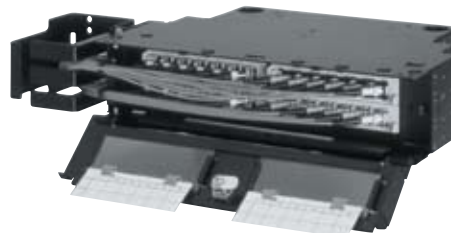
FL2000 Series Fiber Optic Panels

Introduction

The economical and flexible FL2000 series of fiber optic products is ideal for small fiber counts and can be used in moderate fiber count applications as well by combining various panels.



FL2000 Rack Mount Chassis



FL2000 Rack Mount Chassis
(door open)

Features

- A complete line of modular panels developed for cabinet, rack and wall mounting
- Fully adaptable for large or small main distribution frame (MDF), intermediate distribution frame (IDF) or telephone closet (TC) applications
- Designed for 19" (48.26 cm) EIA rack or cabinet environment found in many broadcast networks; optional brackets are available to accommodate 23" (58.42 cm) or ETSI rack or cabinet mounting
- Provides termination, splicing and storage capabilities for in-building cables, outside plant cables and fiber optic terminal (FOT) equipment patch cords
- Modular design offers maximum flexibility to satisfy both current needs and future growth requirements
- A full line of options and accessories ensures compatibility with existing optical equipment
- FL2000 systems accommodate the Value-Added plug-in Modules (VAMs), adding flexibility and functionality to the optical transport systems. Splitters, wavelength division multiplexers (WDMs) and other optical components can be easily incorporated
- All FL2000 panels accommodate the modular FL2000 6pak plug-ins. 6paks are available in all connector styles and can be ordered as needed
- ADC's patented removable angled retainers allow easy access for single fiber maintenance
- FL2000 panels feature superior vertical cable protection and management
- Rack mount panels are hinged on one side, allowing full access to the rear of the front plate and the interior of the panel
- Rack mount panels are equipped with mounting brackets to provide 5" (12.7 cm) recess mounting; mounting brackets are available for virtually any mounting application
- Rack mount panels can be wall mounted
- The FL2000 splice wheel allows easy roll-up of pigtail and buffer tube lengths and superior bend radius protection
- The FL2000 splice deck is available to complete existing installations



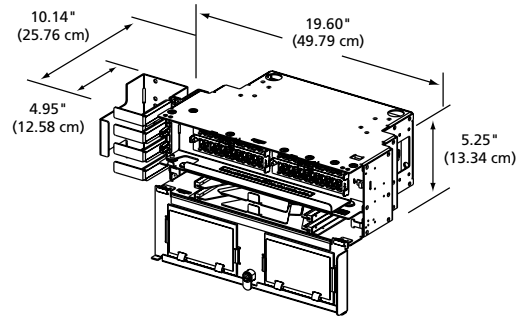
Fiber Patching and Management

FL2000 Series Fiber Optic Panels

Preconfigured Termination/Splice Panels with Pigtails, Black

Features

- FL2000 panels are shipped with 6paks and/or pigtails pre-installed at the factory
- Reduce installation time
- Simplify ordering process
- Use this configuration guide to determine the catalog number right for your application



Preconfigured Termination/Splice Panel

Catalog Number													
FL2 -		1	2	3	4	5	6	7	8	9	10	11	12
Panel Type													
C		Termination/splice											
Nominal Capacity													
A		12-position											
B		24-position											
D		48-position											
E		72-position											
F		96-position											
Panel Height													
A		3.5" (8.89 cm) (2 RU)											
B		5.25" (13.34 cm) (3 RU)											
D		8.75" (22.23 cm) (5 RU)											
E		14.00" (35.56 cm) (8 RU)											
F		17.50" (44.45 cm) (10 RU)											
Connector Style													
Multimode													
9		SC											
D		SC duplex											
5		ST®											
Y		LX.5®¹											
6		LC¹											
Singlemode													
2		FC ultra polish											
L		FC with zirconia adapter											
F		FC angled polish											
7		SC ultra polish											
N		SC with zirconia adapter											
J		SC angled polish											
E		SC duplex											
4		ST ultra polish											
P		ST® with zirconia adapter											
X		LX.5®¹											
8		LC¹											
Number of Ports Loaded													
A		Adapters only											
P		6-fiber softwall bundle											
H		6-fiber Maxi-Strip											
R		12-fiber ribbon											
K		12-fiber softwall bundle²											
Y		12-fiber Maxi-Strip											
Pigtails or Adapter Type													
A		Adapters only											
P		6-fiber softwall bundle											
H		6-fiber Maxi-Strip											
R		12-fiber ribbon											
K		12-fiber softwall bundle²											
Y		12-fiber Maxi-Strip											
Splice Type													
0		None or N/A											
M		Mechanical (Wheel)											
W		Heat Shrink Fusion (Wheel)											
1		Bare Fusion (Deck)											
2		Heat Shrink Fusion (Deck)											
3		Mechanical (Deck)											
Splice Type²													
M		Mechanical (Wheel)											
Number of Splice Decks													
0		0											
1		1											
2		2											
Latch Type													
0		Latch											
1		Hole Plug											
2		Screwdriver											
5		K1 Lock											
6		K2 Lock											
Number of Cable Clamps													
0		1 clamp (standard)											
2		2 clamps											
Mounting Style³													
A		19" (48.26 cm) standard (19.6" [49.78 cm] overall)											
B		19" (48.26 cm) maximum (19" [48.26 cm] overall)											
C		19" (48.26 cm) flush mount											

For options not listed please contact ADC Customer Service



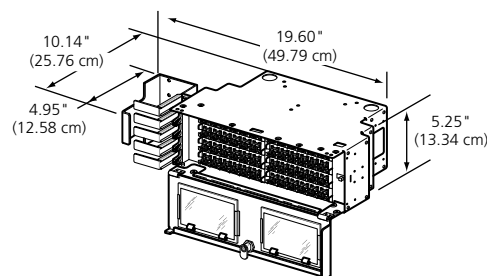
Fiber Patching and Management

FL2000 Series Fiber Optic Panels

Preconfigured Termination Panels with Pigtails, Black

Features

- FL2000 panels are shipped with 6paks and/or pigtails pre-installed at the factory
- Reduce installation time
- Simplify ordering process
- Use this configuration guide to determine the catalog number right for your application



Preconfigured Termination Panel

Catalog Number																	
FL2 -		1	2	3	0	4	5	6	7	0	0	8	9	10	11	12	
Panel Type																	
R		Termination only															
Nominal Capacity																	
A		12-position															
B		24-position															
C		36-position															
D		48-position															
E		72-position															
F		96-position															
Panel Height																	
A		1.75" (4.45cm) (1 RU)															
B		3.5" (8.89 cm) (2 RU)															
C		5.25" (13.34 cm) (3 RU)															
D		5.25" (13.34 cm) (3 RU)															
E		8.75" (22.23 cm) (5 RU)															
F		10.5" (26.67 cm) (6 RU)															
Connector Style																	
Multimode																	
9		SC															
D		SC duplex															
5		ST®															
Y		LX.5®¹															
6		LC¹															
Singlemode																	
2		FC ultra polish															
L		FC with zirconia adapter															
F		FC angled polish															
7		SC ultra polish															
N		SC with zirconia adapter															
J		SC angled polish															
E		SC duplex															
4		ST ultra polish															
P		ST® with zirconia adapter															
X		LX.5®¹															
8		LC¹															
Number of Ports Loaded																	
A		Adapters only															
P		6-fiber softwall bundle															
H		6-fiber Maxi-Strip															
R		12-fiber ribbon															
K		12-fiber softwall bundle²															
Y		12-fiber Maxi-Strip															
Pigtail or Adapter Type																	
A		19" (48.26 cm) standard (19.6" [49.78 cm] overall)															
B		19" (48.26 cm) maximum (19" [48.26 cm] overall)															
C		19" (48.26 cm) flush mount															
Mounting Style³																	
0		Latch															
1		Hole Plug															
2		Screwdriver															
5		K1 Lock															
6		K2 Lock															
Latch Type																	
0		1 clamp (standard)															
2		2 clamps															

¹ LX.5® and LC connectors and adapters double the capacity of the panel by terminating two fibers at each adapter.

² For use with LX.5® and LC

³ Mounting kit shipped unattached, if other than standard mounting style.



Fiber Patching and Management

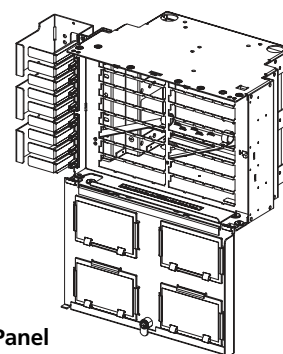
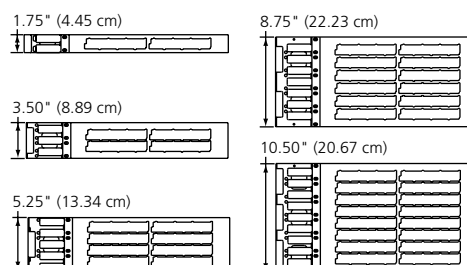
FL2000 Series Fiber Optic Panels

Empty Termination Panels, Black

Features

- Mounting
 - 19" (48.26 cm) EIA rack or cabinets, standard 5" (12.7 cm) recess
 - Wall mounting option available
 - Other mounting kits available
- Hinged on left front side¹; allows full access to rear of front plate and interior of panel
- FL2000 6pak adapter plug-ins ordered separately
- Constructed of high strength aluminum
- Equipped with removable metal doors with Plexiglass windows
- Designation labels included with each panel
- Complete line of accessories including locks for security

¹ Right hinged also available



Empty Termination Panel

Ordering Information

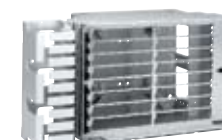
Description	Dimensions	Catalog Number
Empty Termination Panel, Black; includes vertical cable management trough		
12-fiber capacity	1.75" (4.45 cm)	FL2-12RPNL-B
24-fiber capacity	3.50" (8.89 cm)	FL2-24RPNL-B
36-fiber capacity	5.25" (13.34 cm)	FL2-36RPNL-B
48-fiber capacity	5.25" (13.34 cm)	FL2-48RPNL-B
72-fiber capacity	8.75" (22.23 cm)	FL2-72RPNL-B
96-fiber capacity	10.50" (26.67 cm)	FL2-96RPNL-B
Accessories		
Wall Mount Bracket, Black; needed for 12-fiber capacity panel only		FL2-ACC008
Cable Clamp Kit; one per cable recommended		
Outer diameter .2" to .8"		FL2-ACC007
Outer diameter .7" to 1.0"		FL2-ACC021
Cable clamp kit for 12-fiber capacity panel only		FL2-ACC033
Bonding/grounding kit		FL2-ACC006



24-Fiber Capacity



72-Fiber Capacity



96-Fiber Capacity



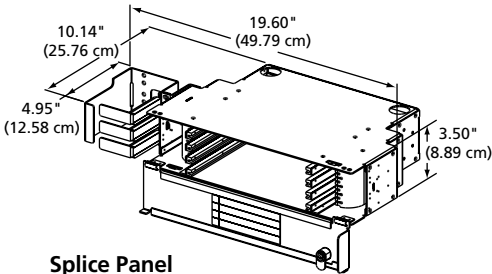
Fiber Patching and Management

FL2000 Series Fiber Optic Panels

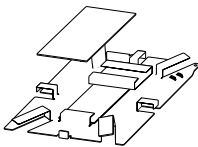
Splice Panels

Features

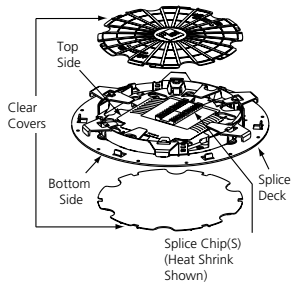
- Offers combination of splicing protection and associated fiber/pigtail storage
- Splice panel can be mounted in conjunction with any FL2000 termination panel or as a stand-alone splice panel
- Occupies same footprint and offers same mounting options as FL2000 termination panels
- Accepts the ADC splice wheel for efficient management of fiber cable and splice protection
- Accepts the traditional ADC splice deck



Splice Panel
(48-fiber Capacity module shown)



Splice Deck with Splice Chip
(Black)



Splice Wheel with Splice Chip
(Black)

Ordering Information

Description	Panel Height	Catalog Number
Splice Panel for Splice Wheel, Black; (accepts splice wheel only)		
48-fiber capacity	3.5" (8.89 cm)	FL2-48SPNL2-B
96-fiber capacity	7" (17.78 cm)	FL2-96SPNL2-B
144-fiber capacity	8.75" (22.23 cm)	FL2-144SPNL2-B
Splice Wheel with Splice Chip		
Heat shrink fusion		FST-DRS12-HS
Mechanical		FST-DRS12-MT
Splice Panel for Splice Deck for Existing Installations, Black; (also accepts splice wheel)		
48-fiber capacity	3.5" (8.89 cm)	FL2-48SPNL-B
96-fiber capacity	7" (17.78 cm)	FL2-96SPNL-B
144-fiber capacity	8.75" (22.23 cm)	FL2-144SPNL-B
Splice Deck with Splice Chip for Existing Installations		
Heat shrink fusion		FL2-RSPLCE-HS-B
Mechanical		FL2-RSPLCE-MT-B
Bare fusion		FL2-RSPLCE-FT-B
Cable Clamp Kit (kit of 1)		
Outer diameter .2" to .8"		FL2-ACC007
Outer diameter .7" to 1.0"		FL2-ACC021



Fiber Patching and Management

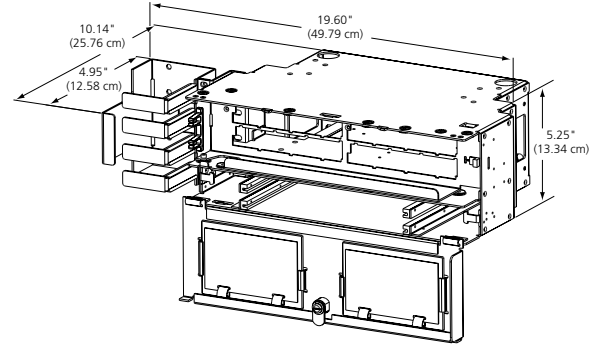
FL2000 Series Fiber Optic Panels

Empty Termination/Splice Panels, Black

Features

- Mounting
 - 19" (48.26 cm) EIA racks or cabinets, standard 5" (12.7 cm) recess
 - Wall mounting option available
- Hinged on left front side¹ for complete access to interior of termination section
- Ability to quickly and easily configure, utilizing the 6pak assemblies (ordered separately)
- Complete line of accessories including locks for security
- Uses ADC splice wheels or splice decks

¹ Right hinged also available



Empty Termination/Splice Panel

Ordering Information

Description	Panel Height	Catalog Number
Empty Termination/Splice Panel, Black		
12-position	3.5" (8.89 cm)	FL2-12TS350-B
24-position	5.25" (13.34 cm)	FL2-24TS525-B
48-position	8.75" (22.23cm)	FL2-48TS875-B
72-position	14" (35.56 cm)	FL2-72TS140-B
96-position	17.5" (44.45 cm)	FL2-96TS175-B
Splice Wheel with Splice Chip		
Heat shrink fusion		FST-DRS12-HS
Mechanical		FST-DRS12-MT
Splice Deck with Splice Chip		
Heat shrink fusion		FL2-RSPLCE-HS-B
Mechanical		FL2-RSPLCE-MT-B
Bare fusion		FL2-RSPLCE-FT-B



Fiber Patching and Management

FL2000 Series Fiber Optic Panels

6pak Connector Plug-ins with Adapters and Pigtails

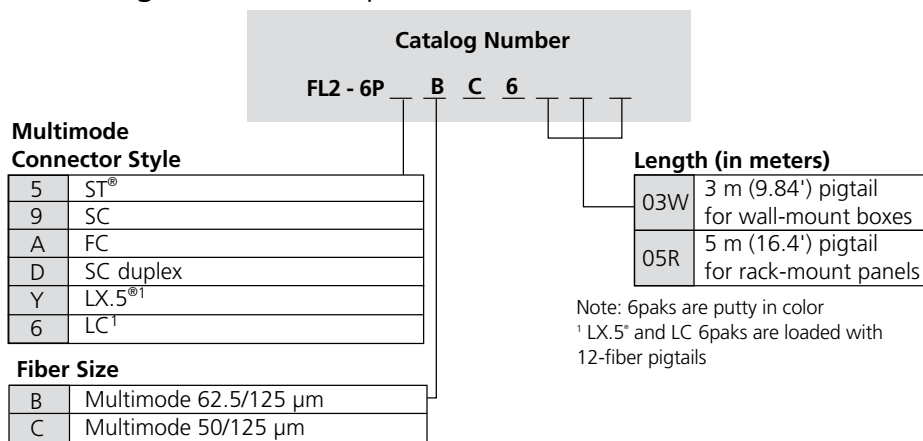
Features

- Available with pre-terminated 3 meter (9.84') or 5 meter (16.4') pigtails
- Pigtails consist of a single outer jacket containing six color-coded 900 μ m fibers
- One end of pigtail terminated to chosen connector style and installed into the 6pak plug-in adapters
- ADC recommends specific breakouts for panel and wall mount box products
- Saves installation time

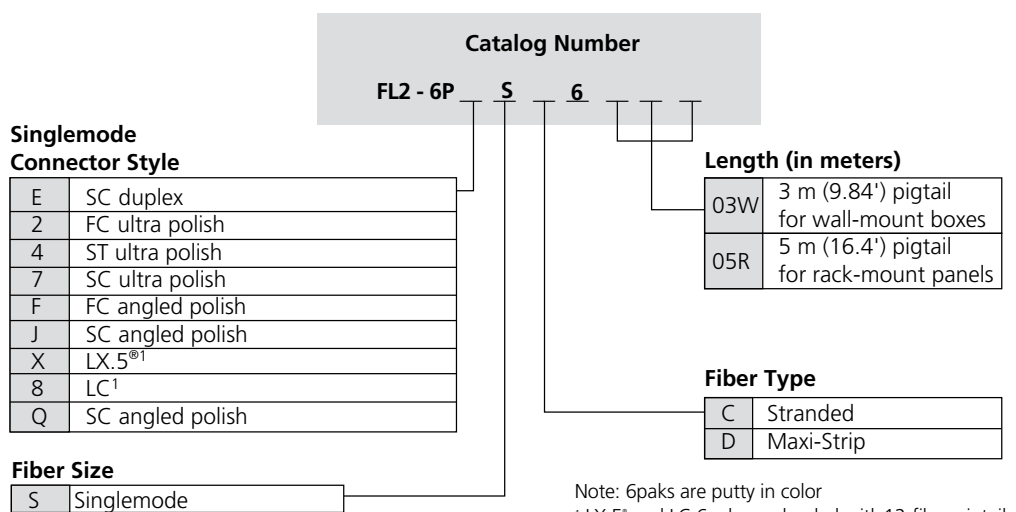


FL2000 6pak Plug-In
(shown with SC adapters and pigtails)

Multimode Pigtails and Adapters



Singlemode Pigtails and Adapters





Fiber Patching and Management

FL2000 Series Fiber Optic Panels

10/09 • 102117AE Broadcast and Entertainment Products

6pak Adapter Plug-Ins

Features

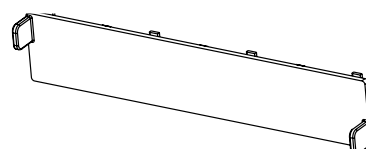
- Can be ordered with all standard types of simplex and duplex single and multimode adapters and connectors
- Feature ADC's patented removable angled retainers which provide superior fiber management
- No tools required to install into FL2000 panels
- Can be ordered with adapters only, or for quick and easy installation, with pre-terminated 3 meter (9.84') or 5 meter (16.4') pigtails



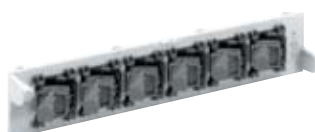
6pak Plug-In
(shown with singlemode duplex adapters)



6pak Plug-In
(shown with multimode duplex adapters)



6pak Blank Plug-In



6pak Plug-In
(shown with singlemode simplex adapters)



6pak Plug-In
(shown with multimode simplex adapters)



6pak Plug-In
(shown with singlemode LX.5 adapters)



6pak Plug-In
(shown with multimode LX.5 adapters)

Ordering Information

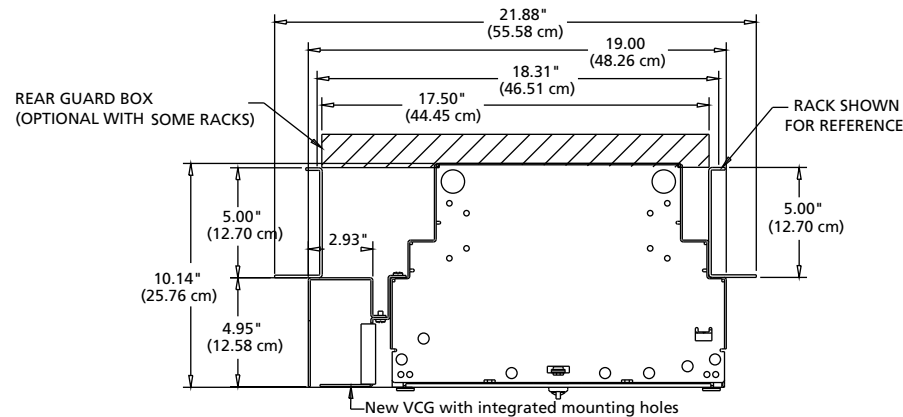
Description	Catalog Number
Multimode	
SC	FL2-6PMMSC
ST®	FL2-6PMMST
FC	FL2-6PMMFC
SC, duplex	FL2-6PMMDSC
SC, zirconia	FL2-6PMMSC-Z
ST®, zirconia	FL2-6PMMST-Z
FC, zirconia	FL2-6PMMFC-Z
LX.5®	FL2-6PMMMLX
LC	FL2-6PMMMLC
Singlemode	
SC	FL2-6PSMSC
ST®	FL2-6PSMST
FC	FL2-6PSMFC
SC, duplex	FL2-6PSMDSC
FC angled polish	FL2-6PSMAFC
SC angled polish	FL2-6PSMASC
SC, zirconia	FL2-6PSMSC-Z
ST®, zirconia	FL2-6PSMST-Z
FC, zirconia	FL2-6PSMFC-Z
LX.5®	FL2-6PSMALX
LC	FL2-6PSMLC
Hybrid: ST® front, SC back	FL2-6PSMST/SC
6pak Blank Plug-In	FL2-6PBLNK



Fiber Patching and Management

FL2000 Series Mounting

19" Maximum Mounting



Ordering Information

Description	Panel Height	Catalog Number
19" Maximum Mounting, Black; allows entire panel to be contained within frame footprint Kit includes: new vertical cable guide with integrated mounting holes	1.75" (4.45 cm)	FL2-19MAX0175-B
	3.5" (8.89 cm)	FL2-19MAX0350-B
	5.25" (13.34 cm)	FL2-19MAX0525-B
	7" (17.78 cm)	FL2-19MAX0700-B
	8.75" (22.23cm)	FL2-19MAX0875-B
	10.5" (26.67 cm)	FL2-19MAX1050-B
	14" (35.56 cm)	FL2-19MAX1400-B
	17.5" (43.18 cm)	FL2-19MAX1750-B



Fiber Patching and Management

FMT Series Fiber Optic Panel

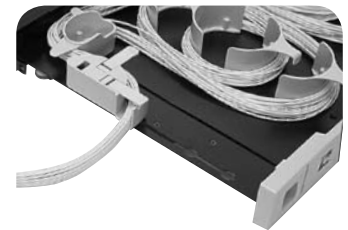
Introduction

Cable management is an essential consideration in any successful fiber communications network. ADC's FMT series fiber optic panel enables termination, termination/splicing, termination/storage, splicing only and slack storage for optical fibers in a compact 1 or 2 RU panel.

Sliding Radius Limiter

Sliding radius limiters provide ultimate fiber management by addressing one of the most critical elements of fiber cable management: bend radius protection.

By controlling the movement of fibers into the drawer, error-proof slack loop management is maintained, ensuring proper bend radius protection. This is crucial to protecting fiber, eliminating service failures and decreasing costs.



Sliding Adapter Pack

Sliding adapter packs allow easy access for connecting jumpers and cleaning connectors, ensuring that any fiber can be installed or removed without disturbing adjacent fibers. That means a significant reduction in connector installation/reconfiguration time.

Modular Design

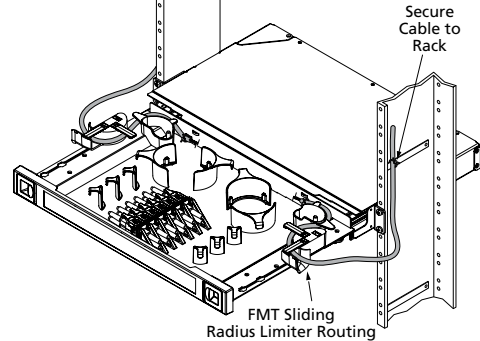
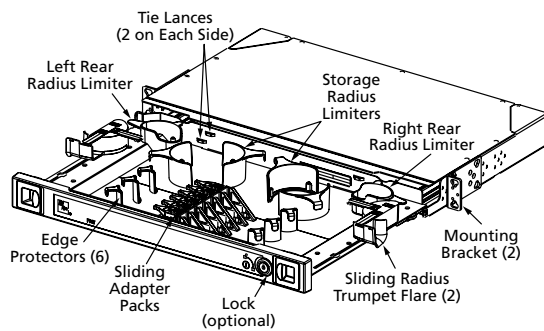
ADC's modular design offers the value of a single interface for performing multiple tasks in your network. By employing a 1 or 2 RU modular drawer, network technicians have familiar access to terminating, splicing and storing fiber. This cable management approach translates to time and money saved for moves, adds and changes.





Fiber Patching and Management

FMT Series Fiber Optic Panel



12-Termination/Storage Drawer, Universal Entry

Termination-Only Drawers

This FMT accommodates 24-, 32-, 48-, 72- or 96- standard single circuit access connectors in 1 or 2 RU drawers. It is ideal for interconnect applications that will experience minimal network reconfiguration.

Termination and Splice Drawers

This FMT has termination/splicing capability for 12-, 16- or 24-fibers within 1 RU or 48-fibers in 2 RU. Splice trays can be placed on the left and right side of the FMT, offering great flexibility in ordering the panel to fit your specific network application.

Termination and Storage Drawers

This FMT accommodates terminations in groups of 12, 16 or 24. This panel stores slack fiber for the line and/or equipment side of the demarcation. It's an ideal solution for interconnect applications that may see some reconfiguration activity and where exact patch cord lengths cannot be determined. Slack storage within the drawer also allows for reconnectorization of the fiber.

Slack Storage Drawers

These FMTs properly manage and protect excess optical jumper length at the equipment frame. They may be used in conjunction with other FMT solutions or as a stand-alone slack storage solution at the equipment frame. Both bulk and discrete storage solutions are available to accommodate industry-standard jumper configurations.

Sliding Radius Limiters

Minimize fiber movement during drawer usage and the need for a long slack loop.

Sliding Adapter Packs

Two adapter/connectors in 1 RU panels and six in 2 RU panels provide easy hand access for connecting cables and cleaning connectors.

Edge Protectors

Protect cables from sharp angles at bend points in the cable routing.

Rear Radius Limiters

Maintain a protective minimum bend radius for cables routed into the FMT.

Tie Lances

Secure fibers at the ingress/egress point for additional cable management.

Storage Radius Limiters

Provide slack storage for cable terminated within the FMT.

Lockable

Allows controlled accessibility to the drawer.



Fiber Patching and Management

FMT Series Fiber Optic Panel

Product Overview

	FMT 1 RU Rack Mount	FMT 2 RU Rack Mount
Recommended Applications	Small to medium fiber count application. Offers the secure fiber protection that comes with a drawer solution coupled with a high degree of cable management. Ideal for mixed use with active equipment in either frame or cabinet applications.	
Description	1.75"H – all front access 19"/23" all purpose drawer; high-density 1 RU chassis	3.5"H – all front access 19"/23" all purpose drawer; high-density 2 RU chassis
Number of fibers, future growth potential	12 to 32	Termination/Splice: 48 Termination only: 72 (96 with LC)
Interconnect	Ideal	Ideal
Cross-connect	Yes	Yes
Accommodates on-frame splicing	Yes. Built-in	Yes. Built-in
Accommodates off-frame splicing	Yes	Yes
Rear access	Not required	Not required
All front access	Yes	Yes
Customer premises application	Ideal	Ideal
19" mounting	Yes	Yes
23" mounting	Yes	Yes
Cabinet mount	Yes	Yes
Wall mount	Yes. A wall mount kit is available	Yes. A wall mount kit is available
Mix equipment with fiber product?	Ideal	Ideal
Use as dedicated fiber frame	Not recommended. (See ODF catalog #103742AE)	Not recommended. (See ODF catalog #103742AE)
VAM capabilities	No	Yes. MicroVAM plug-ins available
Optimum jumper storage location	Can be configured with storage	Can be configured with storage
Vertical cable guide	VCG available as separate item	VCG available as separate item



Fiber Patching and Management

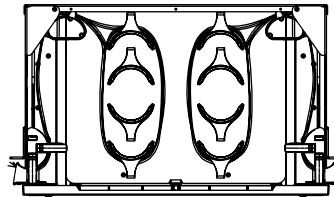
FMT Series Fiber Optic Panel

1 RU Slack Storage Drawers

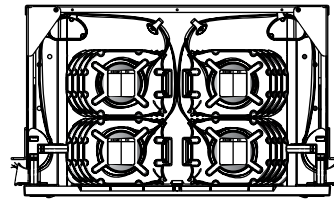
Features

- Offers bulk storage for up to 60 fibers and discrete slack storage for up to 16 fibers
- All-front-access drawer mounts in 19- or 23-inch racks
- Sliding radius limiters provide cable management for incoming and outgoing fibers

Bulk Storage Drawer



Discrete Storage Drawer



Slack storage type	Capacity		
	3.0 mm cable	2.0 mm cable	1.7 mm cable
Bulk	32 cables, 2.5 m each	48 cables, 2.5 m each	60 cables, 4 m each
Discrete	16 cables, 1.7 m each	16 cables, 2 m each	16 cables, 2.5 m each

Catalog Number

FMT - D 0 0 0 0 0 - A 0 0 P

Drawer Configuration

BS	Bulk storage
DS	Discrete storage

Lock Type

0	No lock
1	Lock, key type #1

All 19- and 23-inch mounting brackets are reversible and can mount in EIA and WECC racks.

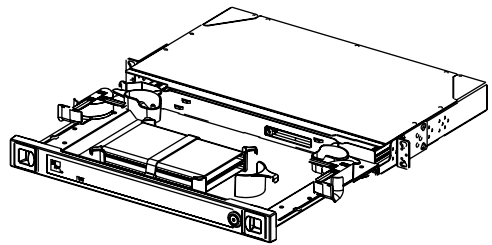
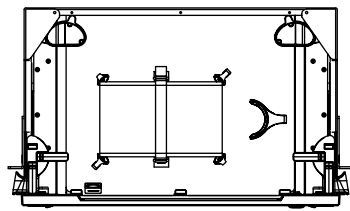
Other configurations are available upon request. Please contact ADC Technical Assistance Center.



Fiber Patching and Management

FMT Series Fiber Optic Panel

1 RU Splice Drawers



1 RU Splice-Only Drawer

Catalog Number
FMT - DAS0000 - A P

Splice Type

0	None
2	Heat shrink (single fiber fusion)
3	Mechanical (mass fusion)

Lock Type

0	No lock
1	Lock, key type #1

Drawer Capacity

12	1 splice tray
24	2 splice trays

All 19- and 23-inch mounting brackets are reversible and can mount in EIA and WECO racks.



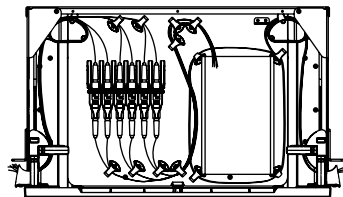
Fiber Patching and Management

FMT Series Fiber Optic Panel

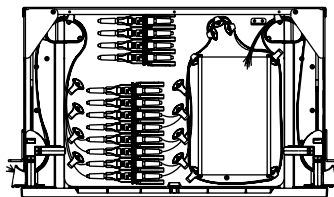
1 RU Fiber Termination/Splice Drawers with Adapters or Pigtails

Features

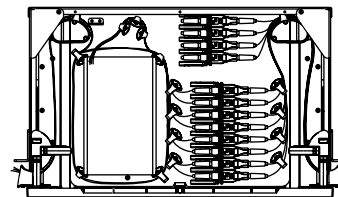
- Terminates and splices 12-, 16- or 24-fibers in an all front access design
- Mounts in 19- or 23-inch racks
- Sliding radius limiters provide cable management for incoming and outgoing fibers
- Panels loaded with pigtails come with color-coded 900 μm pigtails



1 RU 12-Termination/Splice Drawer
(right splice entry)



1 RU 24-Termination/Splice Drawer
(right splice entry)



1 RU 24-Termination/Splice Drawer
(left splice entry)



1 RU 12-Termination/Splice Drawer
(right splice entry)



1 RU 24-Termination/Splice Drawer
(right splice entry)

Catalog Number

FMT - 0 0 - A P

Cable Entry

D	Front Entry
J	Rear Entry

Drawer Configuration

TL	Term splice with splice tray (left splice entry)
TR	Term splice with splice tray (right splice entry)
TU	Term splice with splice tray (universal splice entry - rear entry only)

Connector and Adapter Type

Multimode	
9	SC
6	LC
Singlemode	
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish
Z	LC angled polish

Number of Ports

12	12 ports
16	16 ports
24	24 ports

Lock Type

0	No lock
1	Lock, key type #1

Chip Type (mini splice tray)

0	N/A
2	Heat shrink (single fiber fusion)
3	Mechanical (mass fusion)

Pigtail or Adapter Type

A	Adapter-only
C	Multimode stranded pigtails (50/125 μm)
K	Multimode stranded pigtails (62.5/125 μm)
U	Singlemode stranded pigtails
R	Singlemode ribbon pigtails

All 19- or 23-inch mounting brackets are reversible and can mount in EIA and WECO racks.

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



Fiber Patching and Management

FMT Series Fiber Optic Panel

2 RU Adapter-Only Fiber Termination Drawers

Features

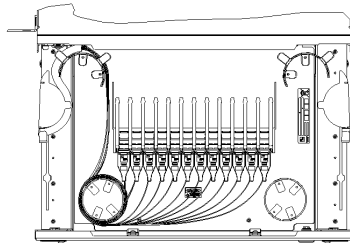
- Provides termination for 72- or 96-fibers in an all-front-access design
- Mounts in 19- or 23-inch racks
- Sliding radius limiters provide cable management for incoming and outgoing fibers



**2 RU 72-Termination
Adapter-Only Drawer**



Sliding Adapter Pack
(shown in access position)



Catalog Number

FMT-GRT0 0 A 0 - A P

Connector and Adapter Type

Multimode	
9	SC
6	LC
Singlemode	
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish
Z	LC angled polish

Number of Ports

72	72 ports
96	96 ports (LC connectors only)

Lock Type

0	No lock
1	Lock, key type #1

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



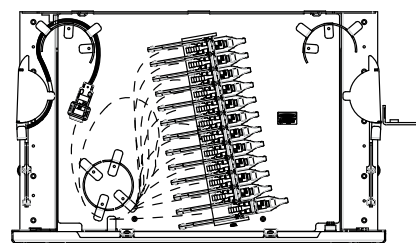
Fiber Patching and Management

FMT Series Fiber Optic Panel

2 RU Fiber Termination Drawers with Multifiber Cable (Preterminated)

Features

- Provides termination for 72- or 96-fibers preterminated with IFC or OSP multifiber cable
- Mounts in 19- or 23-inch racks
- Sliding radius limiters provide cable management for incoming and outgoing fibers



2 RU 72-Termination Drawer with Multifiber Cable (IFC or OSP)

Catalog Number

FMT-GN7

- A

P

Cable Type

Multimode	
Y	IFC stranded 50/125 μ m riser
C	IFC stranded 62.5/125 μ m riser
Singlemode	
A	IFC stranded riser
M	IFC ribbon riser
L	OSP armored ribbon

Number of Ports

72	72 ports
96	96 ports (LC connectors only)

Lock Type

0	No lock
1	Lock, key type #1

Connector and Adapter Type

Multimode	
9	SC
6	LC
Singlemode	
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish
Z	LC angled polish

Cable Length

008	8 m (25')
016	16 m (50')
023	23 m (75')
031	31 m (100')
039	39 m (125')
046	46 m (150')
061	61 m (200')
077	77 m (250')
092	92 m (300')
122	122 m (400')
153	153 m (500')

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



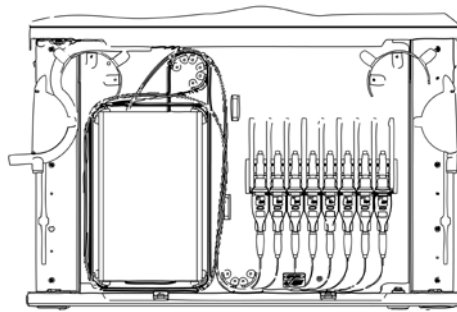
Fiber Patching and Management

FMT Series Fiber Optic Panel

2 RU Fiber Termination/Splice Drawers with Adapters or Pigtails

Features

- Terminates and splices 48-fibers in an all-front-access design
- Mounts in 19- or 23-inch racks
- Sliding radius limiters provide cable management for incoming and outgoing fibers
- Panels loaded with pigtails come with color-coded 900 μm pigtails



2 RU 48-Termination/Splice Drawer

Catalog Number

FMT-GTL 0 0 - A48 P

Connector and Adapter Type

Multimode	
9	SC
6	LC
Singlemode	
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish
Z	LC angled polish

Pigtail or Adapter Type

A	Adapter-only
C	Multimode stranded pigtails (50/125 μm)
K	Multimode stranded pigtails (62.5/125 μm)
U	Singlemode stranded pigtails
R	Singlemode ribbon pigtails

Lock Type

0	No lock
1	Lock, key type #1

Chip Type

0	No splice tray
2	Heat shrink (single fiber fusion)
3	Mechanical (mass fusion)

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



Fiber Patching and Management

FMT Series Fiber Optic Panel

2 RU Value-Added Module (VAM) MicroVAM Chassis

The FMT MicroVAM chassis accommodates MicroVAM modules. The MicroVAM module is ADC's highest density and most versatile VAM module.



2 RU FMT with Single MicroVAMs



Single MicroVAMs
(shown in access position)



1 RU FMT with Single MicroVAMs

Ordering Information

Description	Dimensions (HxWxD)	Catalog Number
2 RU FMT MicroVAM Chassis, Unloaded; accommodates up to 12 single MicroVAMs for monitoring optical signals	89 mm x 483 mm/584 mm x 244 mm (3.5" x 19"/23" x 9.6")	FMT-GVM000000-A72P
1 RU FMT MicroVAM Chassis, Unloaded; accommodates up to 4 single MicroVAMs for monitoring optical signals	44 mm x 483 mm/584 mm x 244 mm (1.75" x 19"/23" x 9.6")	FMT-DVS000000-E00B

Value-Added Module (VAM) System

ADC offers an expansive line of monitor, splitter, WDM and CWDM VAM plug-in modules designed to meet all application needs. Please reference the **Value-Added Module (VAM) System Catalog #101663AE** for details at www.adc.com or contact ADC Customer Service.



Fiber Patching and Management

FMT Series Fiber Optic Panel

2 RU MicroVAM Monitor Module



Catalog Number

FMT-M 1 0 0 0

Input Connector/Adapter Singlemode

7U	SC ultra polish
KU	LC ultra polish

or

Multimode*

9A	SC 50/125 μ m
9B	SC 62.5/125 μ m
PM	LC

Output Connector/Adapter Singlemode

7U	SC ultra polish
KU	LC ultra polish

or

Multimode*

9A	SC 50/125 μ m
9B	SC 62.5/125 μ m
PM	LC

Module Style

B	Cross-connect customer premises
J	Dual monitor
S	Splitter module

Split Ratio

A	90/10
B	95/05
C	50/50
H	70/30
J	60/40
K	99/01
L	98/02

Monitor Connector Type Singlemode

7U	SC ultra polish
KU	LC ultra polish

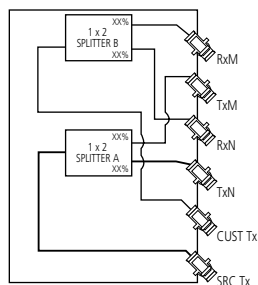
or

Multimode*

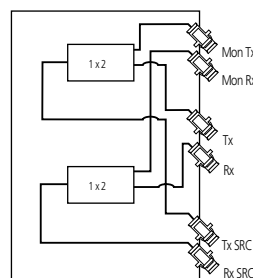
9A	SC 50/125 μ m
9B	SC 62.5/125 μ m
PM	LC

*Contact ADC for specifications and available split ratios.

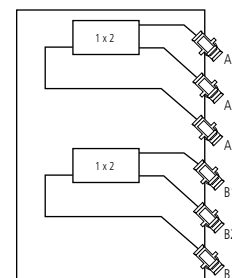
B Customer Premises Monitor Module



J Dual Monitor Cross-Connect



S Splitter Module





Fiber Patching and Management

FPL Series Fiber Optic Panel

10/09 • 102117AE Broadcast and Entertainment Products



5 RU 144-Position Panel



1 RU 24-Position Panel

ADC's FPL series provides industry-leading fiber cable protection and management. The panel utilizes an internal splicing system that creates a compact, feature-rich, high-density solution. FPL achieves densities of 48-fiber terminations/splices in 1 RU (1.75") and 288-terminations/splices in 5 RU (8.75") using LC connectors. These densities are attained while utilizing ADC's angled adapters to ease cable access, protect bend radius and provide individual fiber access. Vertical cable guides on either side of the panel allow for managed routing and protection of the fiber entering and exiting the panel. The FPL's wide range of features and options are designed for your networks' growing needs.

Panels are equipped with adjustable mounting brackets to provide either 19- or 23-inch rack mounting with either four- or five-inch recess mounting. The panel is available preterminated with pigtails or IFC cable to simplify ordering and reduce installation time. ADC's removable angled retainers allow for easy access for single fiber maintenance. Vertical cable guides on either side of the panel provide fiber routing and management of fibers exiting the panel. Using LC small-form-factor connectors doubles the capacity of each panel.



Fiber Patching and Management

FPL Series Fiber Optic Panel

Product Overview

Recommended Applications	High-density termination/splice panel solution. Often used in small wire closets or frames. Ideal for small to medium fiber counts.
Description	288-fiber terminations in 8.75" H or 48-fiber terminations in 1.75" H (LC connectors)
Number of fibers, future growth potential	12 to 288
Flexibility/ability to grow	Yes
Interconnect	Ideal
Cross-connect	Yes
Accommodates on-frame splicing	Yes. Built-in
Accommodates off-frame splicing	Yes. IFC cable and assembly available
Rear access	Required on panels greater than 1 RU
All front access	No. (All panels are rear access with the exception of the 1 RU panel)
Customer premises application	Ideal
19" mounting	Yes
23" mounting	Yes
Cabinet mount	Not recommended. (See FMT)
Wall mount	No
Mix equipment with fiber product?	Ideal
Use as dedicated fiber frame	Not recommended. (See ODF catalog #103742AE)
VAM capabilities	No
Optimum jumper storage location	IMP or separate storage panel required
Vertical cable guide	Includes VCG on both sides



Fiber Patching and Management

FPL Series Fiber Optic Panel

5 RU High-Density Termination and Splice Panels

Features

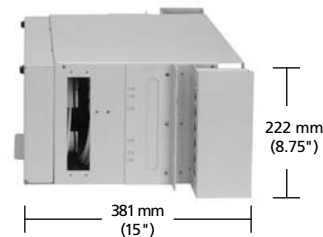
- Provides termination and splicing for up to 144 fibers (288 fibers with LC connectors) within an 8.75-inch height (5 RU)
- Rear flip-down splicing area uses standard splice trays and provides slack storage for OSP/IFC buffer tubes
- Angled bulkhead ensures ease of access to individual connectors
- Panel is equipped with six dual height splice trays
- Optional lock for front door (available separately)
- Removable front polycarbonate door
- Designation labels included with each panel
- Mounting brackets included with panel may be flipped to accommodate 19- or 23-inch mounting with either a 4- or 5-inch recess
- Maximum of three panels to be used within one frame, for a total of 432 terminations



5 RU Termination/Splice Panel
(front view)



Top Cover Removed
(splicing area open)



Side View
(splicing area closed)



Side View
(splicing area open)

Catalog Number

FPL-144 R 0 - 0

Pigtail or Adapter Type

A	Adapter-only
P	Stranded pigtails and adapters
R	Ribbon pigtails and adapters

Connector and Adapter Type

Multimode*	
9	SC
6	LC ¹
Singlemode	
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish ¹
Z	LC angled polish ¹

Splice Type

0	None (termination-only) ²
1	Bare fusion
2	Heat shrink (single fiber fusion)
3	Mechanical (mass fusion)

Number of Ports Loaded

72	72 ports
144	144 ports
288	288 ports (with LC connectors)

*Standard multimode pigtails are 62.5/125 μm

¹LC connectors and adapters double the capacity of the panel by terminating two fibers at each adapter.

²Termination-only panels have a 12-inch depth, termination/splice panels have a 15-inch depth and splice trays cannot be added to termination-only panels.

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



Fiber Patching and Management

FPL Series Fiber Optic Panel

1 RU High-Density Termination and Splice Panels

Features

- Panels are only 1 RU (1.75-inch) high
- Up to 48 connections in 1 RU of space
- Available in 12- or 24-port termination-only or termination/splice within a single panel
- Using LC small-form-factor connectors doubles the capacity of each panel
- Angled left and right connectors allow easy cable routing from left and right
- Vertical cable guides on either side of the panel provide bend radius protection and management of fibers exiting or entering the panel
- Front entry/exit cable management
- Highly accessible splicing area that uses a drawer design
- Flexible mounting allows for use in 19- or 23-inch rack with either a four- or five-inch recess



1 RU Termination/Splice Panel

Catalog Number

FPL - R 0 - 0

Panel Capacity

12	12-position
1D	24-position

Pigtail or Adapter Type

A	Adapter-only
P	Stranded pigtails and adapters
R	Ribbon pigtails and adapters

Connector and Adapter Type

Multimode*	
9	SC
6	LC ¹
Singlemode	
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish ¹
Z	LC angled polish ¹

Splice Type

0	None
2	Heat shrink (single fiber fusion)
3	Mechanical (mass fusion)

Number of Ports Loaded

12	12 ports
24	24 ports
48	48 ports (24 port panel with LC)

*Standard multimode pigtails are 62.5/125 μ m.

¹ LC connectors and adapters double the capacity of the panel by terminating two fibers at each adapter.

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



Fiber Patching and Management

FPL Series Fiber Optic Panel

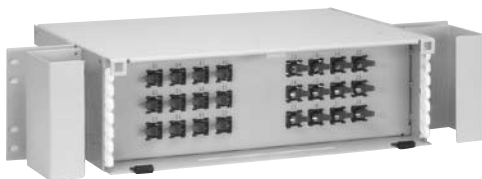
Fiber Termination/Splice Panels with Adapters or Pigtails

Features

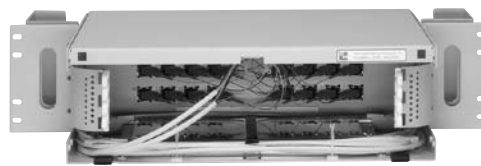
- Available in 12-, 24-, 48-, 72-, 96-, 144- and 288-termination densities
- Provides termination and splice of pigtails as well as associated fiber/pigtail storage
- Rear splice area saves space by reducing panel height (1 RU versions use drawer splicing)
- Splice area provides up to a total of seven meters of slack storage for pigtails and OSP/IFC buffer tubes
- Optional lock for both front and rear doors available separately – (not available on 1 RU)
- Removable front polycarbonate door
- Designation labels included with each panel
- Mounting brackets included with panel may be flipped to accommodate 19- or 23-inch mounting with either four- or five-inch recess



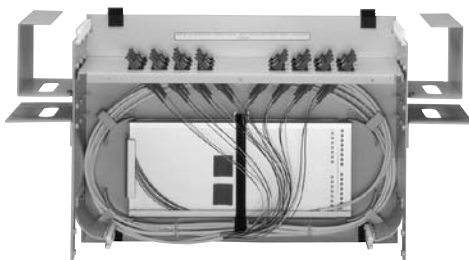
12-Position Termination/Splice Panel
(front view with drawer open)



24-Position Termination/Splice Panel
(front view)



24-Position Termination/Splice Panel
(rear view)



24-Position Termination/Splice Panel
(top cover removed with pigtail routing shown)

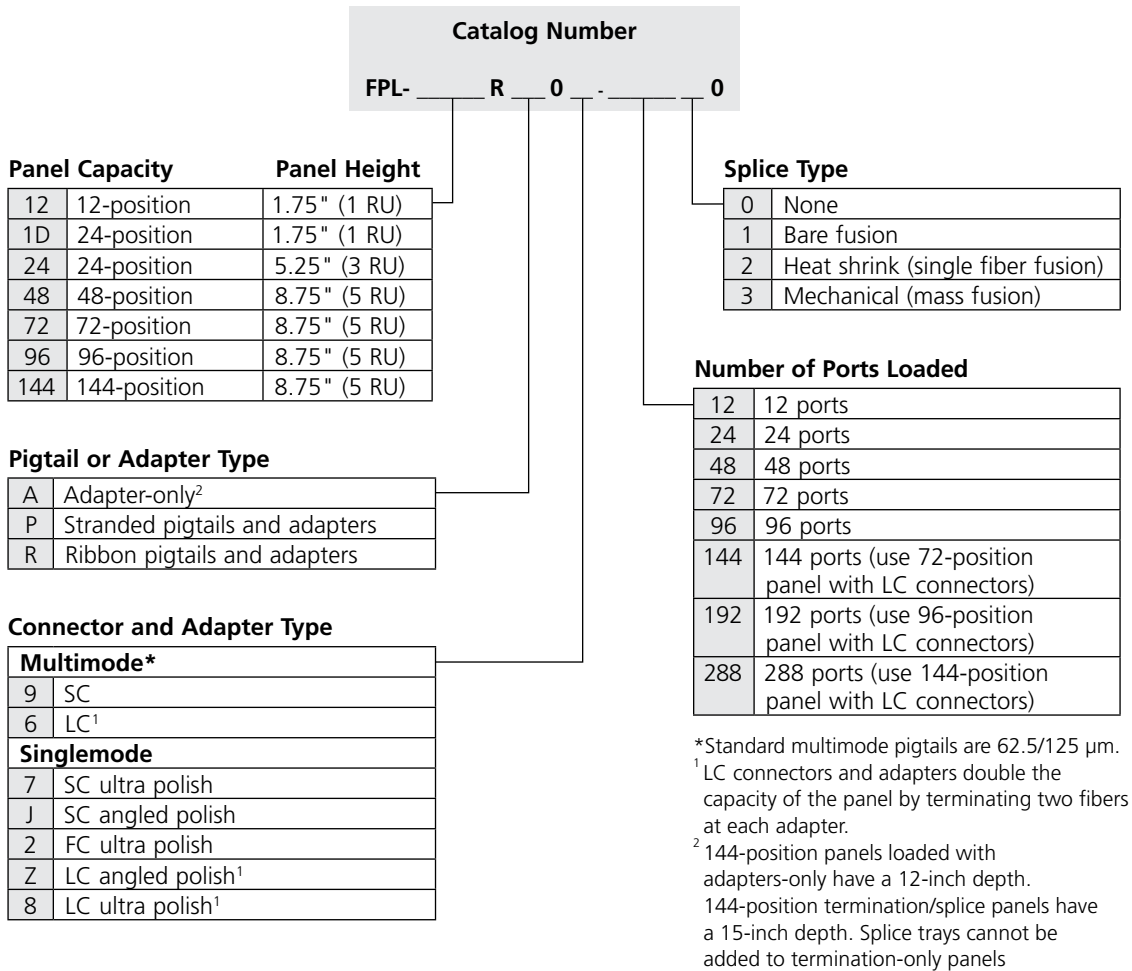
See ordering information on following page.



Fiber Patching and Management

FPL Series Fiber Optic Panel

Fiber Termination/Splice Panels with Adapters or Pigtails



Other configurations are available upon request. Please contact ADC Technical Assistance Center.



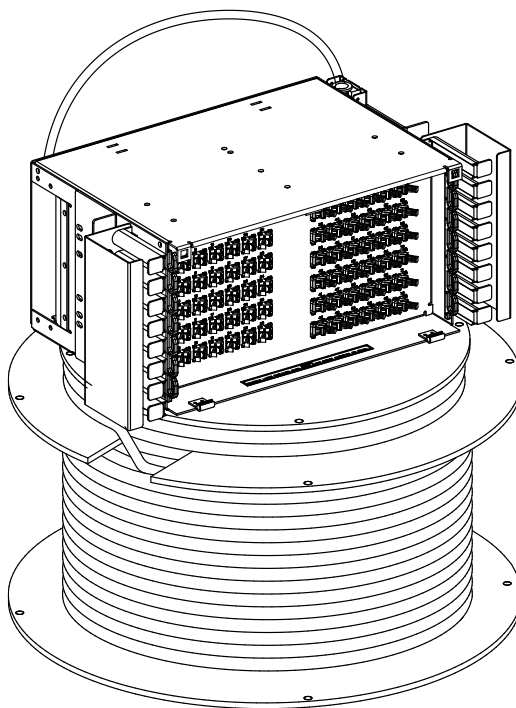
Fiber Patching and Management

FPL Series Fiber Optic Panel

Fiber Termination Panels with Multifiber Cable (Preterminated)

Features

- Available in 12-, 24-, 48-, 72-, 96-, 144- and 288- (LC connectors only) termination densities
- Preterminated with factory-installed multifiber intrafacility cable (IFC) or outside plant (OSP) cable
- Panels with multifiber cable attached ship as a single unit with cable clamp installed
- Equipped with customer specified adapters, connectors, cable type and cable length
- Attached multifiber cable reduces installation time and simplifies ordering process with a single part number
- Optional lock for both front and rear doors (available separately)
- Removable front polycarbonate door
- Designation labels included with each panel
- Mounting brackets included with panel may be flipped to accommodate 19- or 23-inch mounting with either four- or five-inch recess



72-Position Panel with IFC

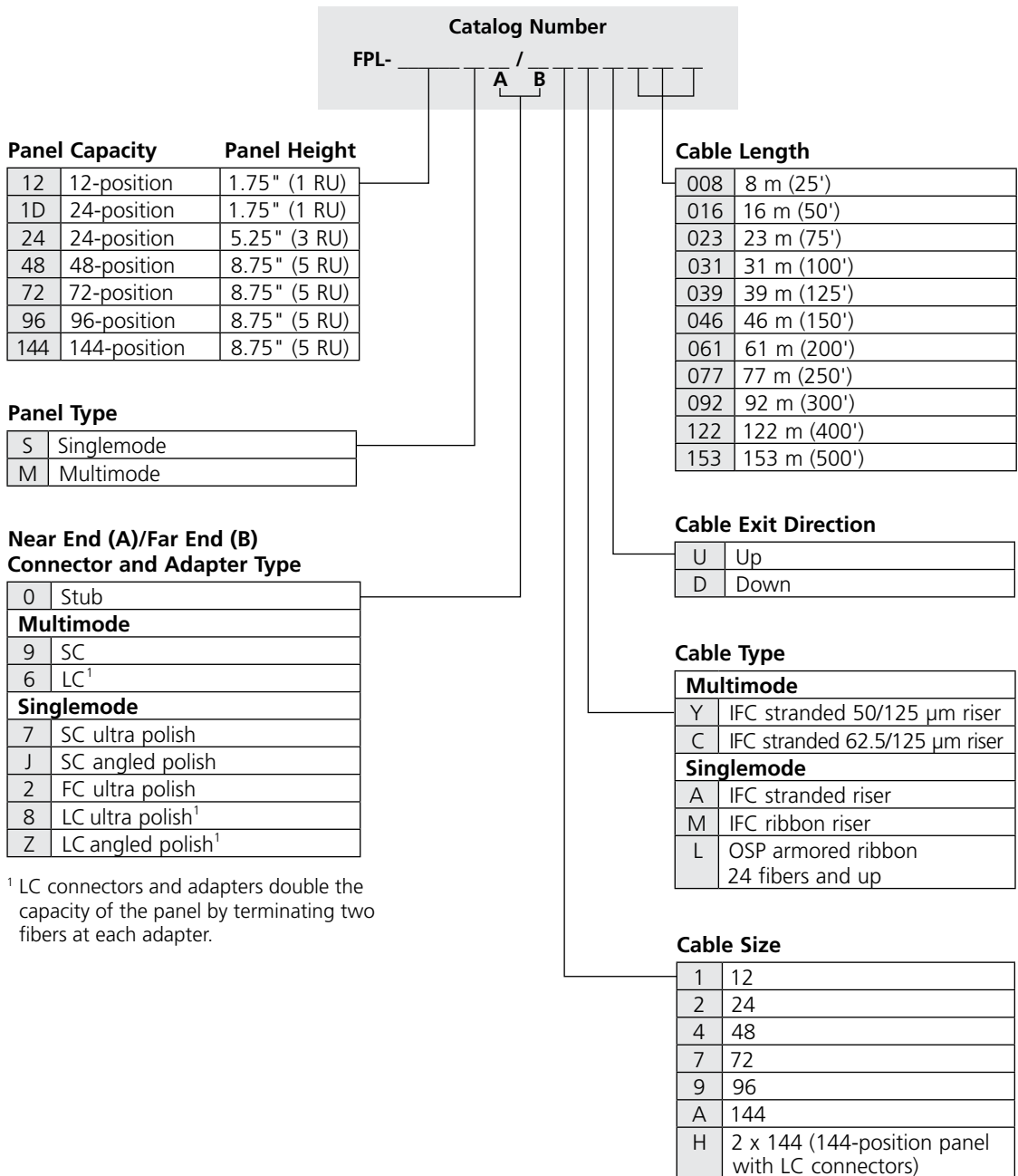
See ordering information on following page.



Fiber Patching and Management

FPL Series Fiber Optic Panel

Fiber Termination Panels with Multifiber Cable (Preterminated)



Other configurations are available upon request. Please contact ADC Technical Assistance Center.



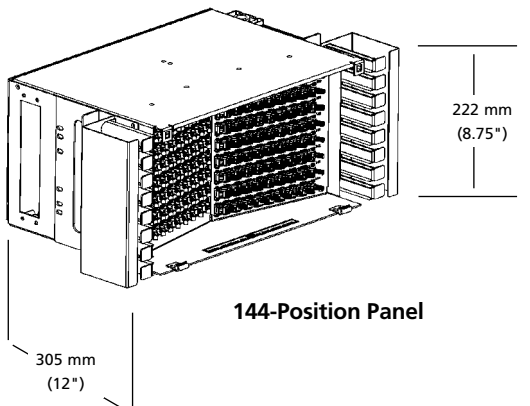
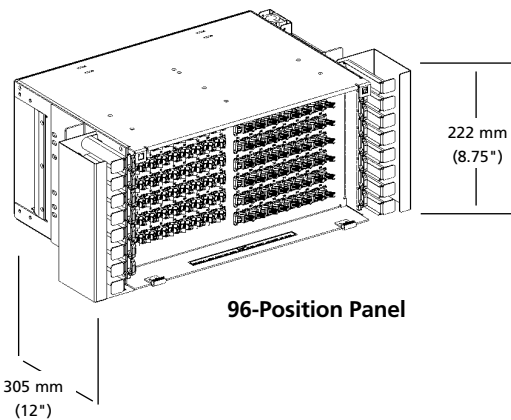
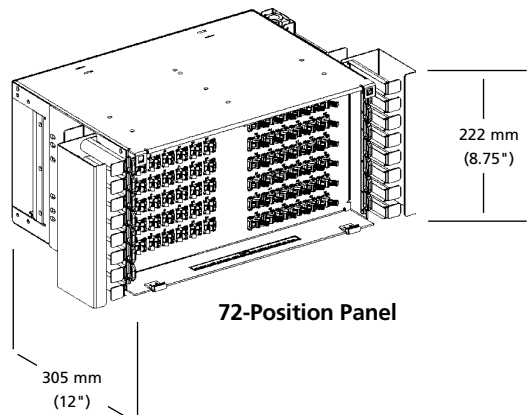
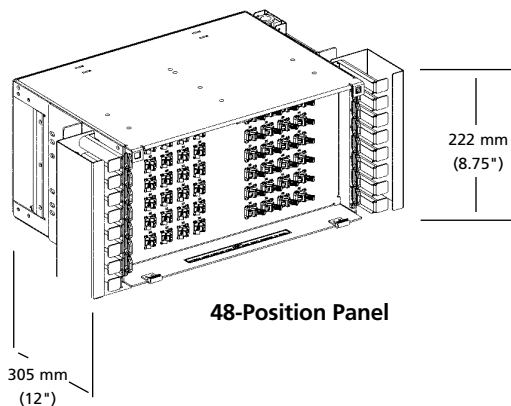
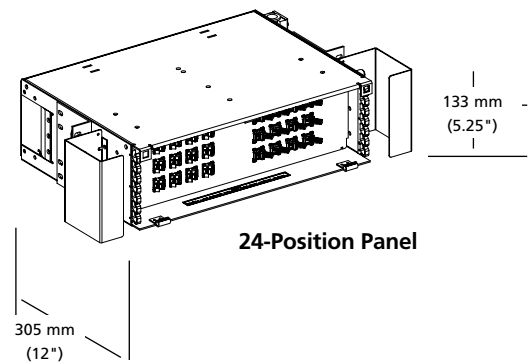
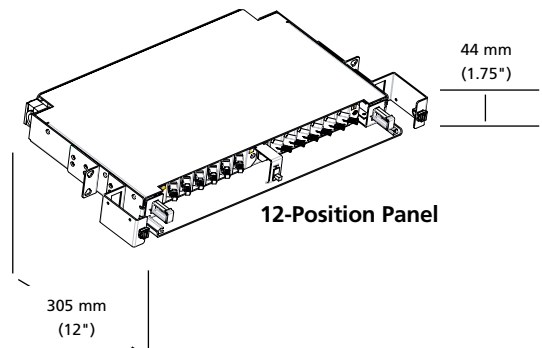
Fiber Patching and Management

FPL Series Fiber Optic Panel

Fiber Termination Panels with Adapters or Pigtails

Features

- Available in 12-, 24-, 48-, 72-, 96-, 144- and 288-termination densities
- Density doubles with use of LC connectors
- Panel may be ordered with adapters only for a termination-only interconnect solution
- Panel may be ordered with 3.5 m pigtails for use with splice and storage panels
- Rear panel pigtail storage
- Optional lock for both front and rear doors (not available for 1 RU)
- Removeable front polycarbonate door
- Designation labels included with each panel
- Mounting brackets included with panel can flip to accommodate 19- or 23-inch mounting with either four- or five-inch recess

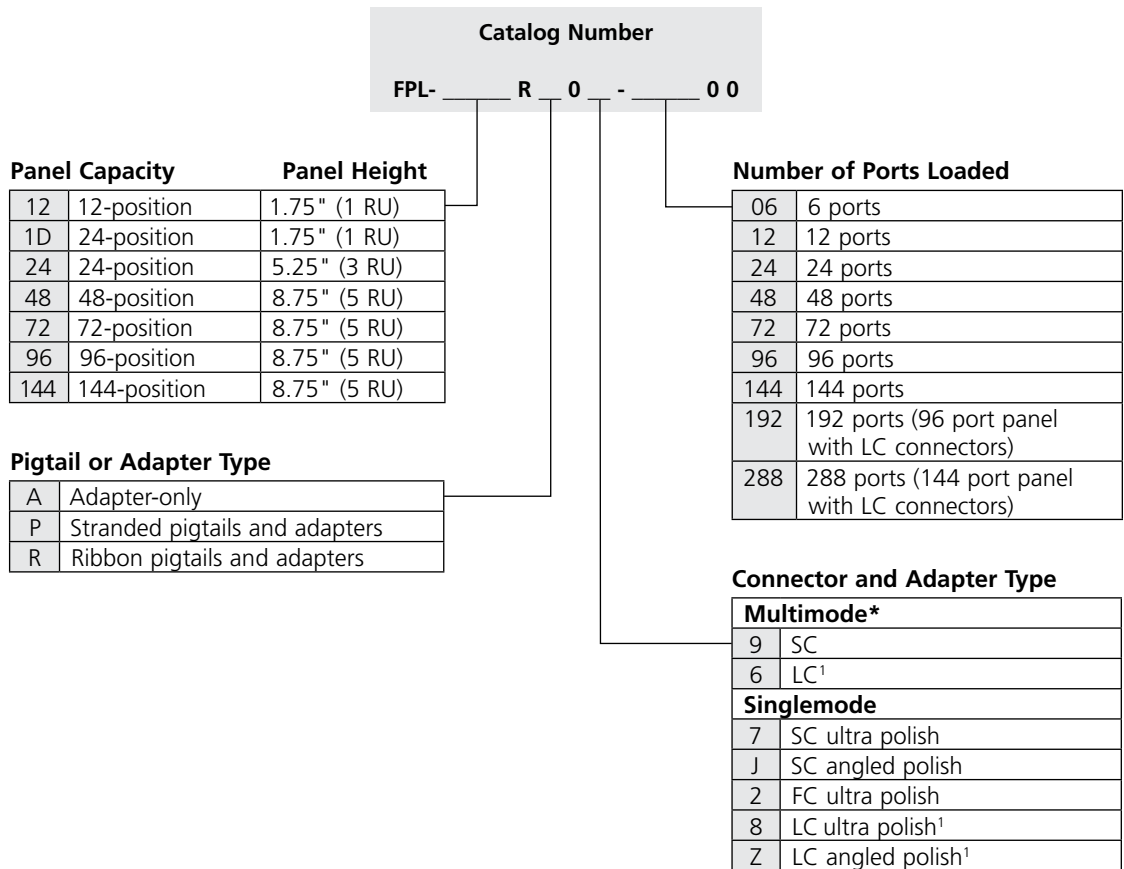




Fiber Patching and Management

FPL Series Fiber Optic Panel

Fiber Termination Panels with Adapters or Pigtails



*Standard multimode pigtails are 62.5/125 µm.

¹LC connectors and adapters double the capacity of the panel by terminating two fibers at each adapter.

Ordering Example: FPL-144RP08-28800

specifies a 5 RU panel, 144-positions and 288 fibers/terminations with LC connectors only.

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



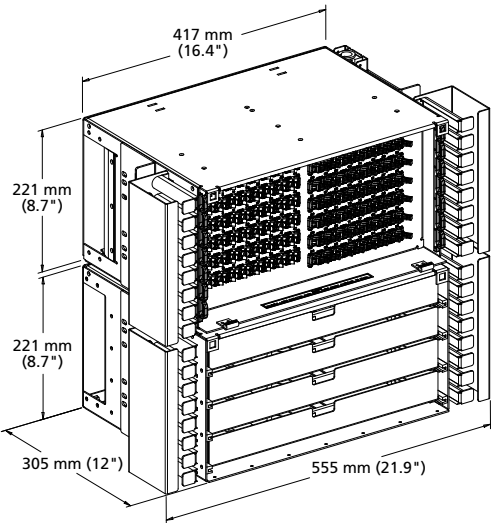
Fiber Patching and Management

FPL Series Fiber Optic Panel

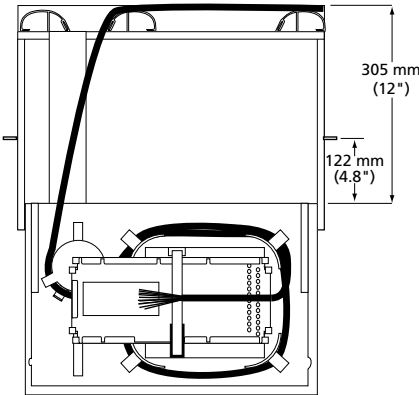
Splice and Storage Drawers

Features

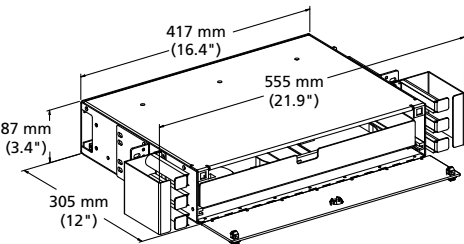
- Available in 24-, 48-, 72- and 96-splice densities. Each drawer provides splicing and storage functions
- Each splice drawer accommodates one dual (24-fibers/tray) or two single (12-fibers/tray) splice trays
- Occupies same footprint as FPL termination-only panels
- Splice trays sold separately
- Hinged transparent front door protects storage drawers and cables from damage during routine activity at or near the panel
- Mounting brackets included with panel can flip to accommodate 19- or 23-inch mounting with either four- or five-inch recess
- Designation labels included with each panel



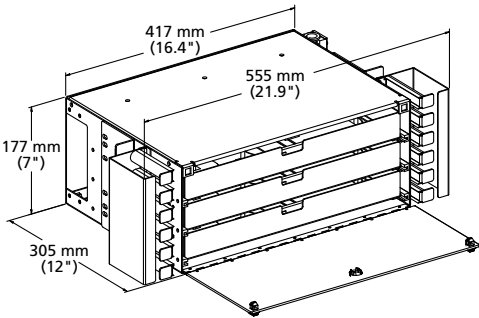
96-Position Termination Panel
(with FPL-SR2000 mounted below)



FPL-SR2000
(top view with drawer open)



FPL-SR2024



FPL-SR2072

Ordering Information

Description	Catalog Number
24-Fiber Splice Drawer, rack mount	FPL-SR2024
48-Fiber Splice Drawer, rack mount	FPL-SR2048
72-Fiber Splice Drawer, rack mount	FPL-SR2072
96-Fiber Splice Drawer, rack mount	FPL-SR2000



Fiber Patching and Management

FPL Series Fiber Optic Panel

Splice Tray

For use with FPL termination/splice panels.

Panel Size	Splice Tray Type	Number of Splice Trays Included for a Fully Loaded Panel
12 (1 RU)	Single Height	1
24 (1 RU)	Dual Height	1
24 (3 RU)	Single Height	2
48 (5 RU)	Dual Height	2
72 (5 RU)	Dual Height	3
96 (5 RU)	Dual Height	4
144 (5 RU)	Dual Height	6



Splice Tray

Ordering Information

Description	Splice Tray Type	Splice Quantity	Catalog Number
12-Position Splice Tray			
Bare fusion	Single height	12	FST-FT
Heat shrink (single fiber fusion)	Single height	12	FST-HS
Mechanical	Single height	12	FST-MT
24-Position Splice Tray			
Bare fusion	Dual height	24	FST-D-FT
Heat shrink (single fiber fusion)	Dual height	24	FST-D-HS
Mechanical (mass fusion)	Dual height	24	FST-D-MT

Miscellaneous Accessories

Ordering Information

Description	Catalog Number
Lock	
Key lock #1	IPA-K1
Key lock #2	IPA-K2
Screwdriver lock	IPA-SC
Cable Clamp Kit; kit of 1	
Outer diameter 5 mm to 20 mm (0.2" to 0.8")	FL2-ACC007



Fiber Patching and Management

RMG Series Fiber Optic Panels

ADC's RMG Series fiber enclosure provides rugged and durable protection for patching or splicing of fiber cables. Especially designed to be user-friendly, the slide-out design and removable front and rear panels provide convenient access points.

ADC's RMG Series offers a cost effective and high density rack mount fiber enclosure in 1, 2 and 4 rack unit sizes. Its modular design and flexible configurations including terminating, splicing and MTP/MPO solutions makes it very user friendly and easy to install.



Applications and Benefits

- High-density makes suitable for telecommunications and equipment rooms
- Configurations with preterminated fiber can be used for rapid deployment in storage area networks and data centers
- Can be cabinet mounted for data center applications

Features

- 1 and 2 RU size units contain sliding and removable front and rear access panels, providing convenient access points
- Made with 16 gauge steel and scratch resistant paint providing durable rugged construction
- Designed for 19- inch EIA rack or cabinet environment; optional brackets to accommodate 23- inch rack or cabinet mounting
- All RMG panels accommodate the modular RMG adapter packs or RMG MTP cassettes
- Density: up to 72 termination in 1RU
- Low profile design with higher density for space limited applications
- User-friendly design utilizing industry standard LSX/LGX modular adapter packs
- Modular adapter packs are available preterminated with pigtails to simplify ordering process and reduce installation time
- Side and rear cable entry points on back of panel supports a wide range of deployment applications



Fiber Patching and Management

RMG Series Fiber Optic Panels

RMG Fast Facts

	Size in Rack Units		
	1 RU	2 RU	4 RU
Maximum Density for Termination Only—Quad LC style connector	72	144	288
Maximum Density for Termination Only—Standard LC style connector	36	72	144
Maximum Density for Termination Only—non LC style connector	18	36	72
Maximum Density for Termination/Splice—Quad LC style connector	72	144	144
Maximum Density for Termination/Splice—Standard LC style connector	36	72	144
Maximum Density for Termination/Splice—non LC style connector	18	36	72
Compatible with ADC Glide System?	Yes, panel itself contains no vertical cable guide.		
Best Application	Telecommunications rooms or to terminate incoming fiber trunks.		
Features at a Glance	Limited cable management, high density with features price comparable to competitors' products.		

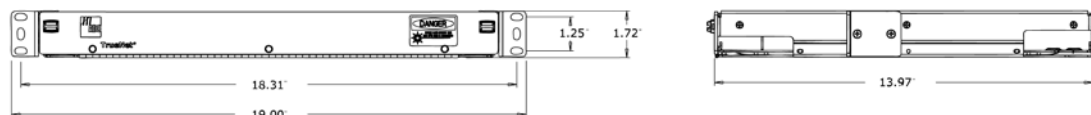


Fiber Patching and Management

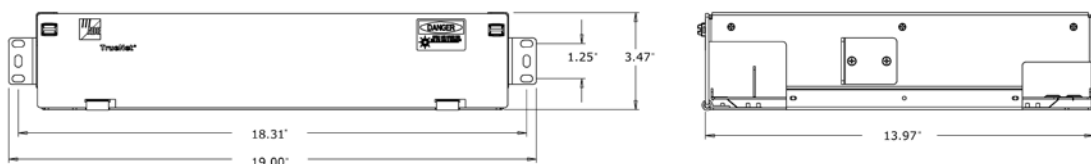
RMG Series Fiber Optic Panels

Specifications

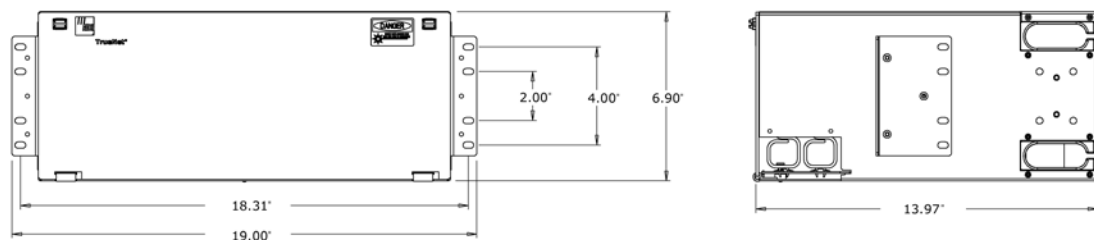
1 RU Model



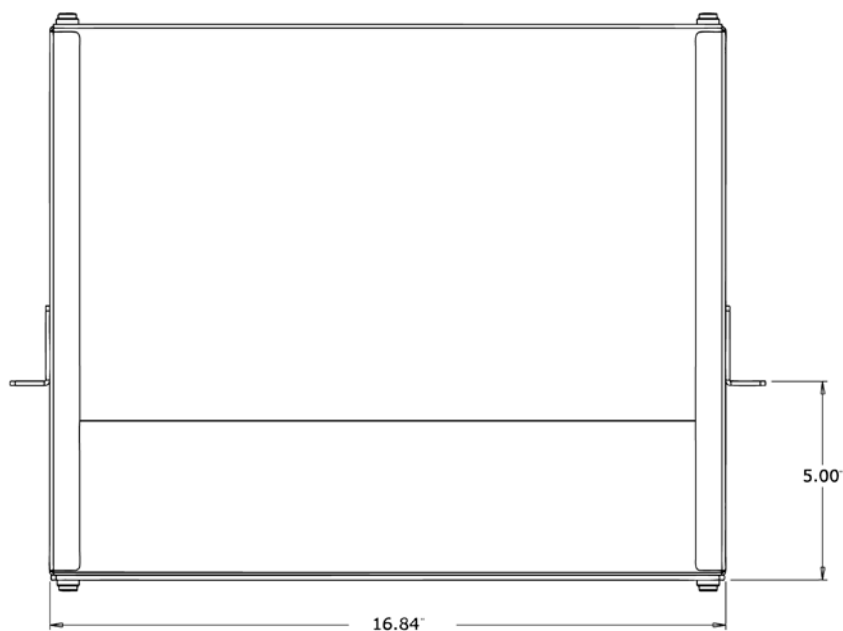
2 RU Model



4 RU Model



1 RU, 2 RU and 4 RU





Fiber Patching and Management

RMG Series Fiber Optic Panels

Preconfigured Termination or Termination/Splice Panels, Black

ADC's RMG series fiber panels are available to be shipped with factory installed adapter modules and/or preterminated pigtail assemblies which simplifies the ordering process and reduces installation time and costs.

Catalog Number																							
RMG -																							
Panel Size	Panel Color																						
<table border="1"><thead><tr><th></th><th>Description</th><th>Nom Capacity</th></tr></thead><tbody><tr><td>1</td><td>1U (1.75")</td><td>3 adapter packs</td></tr><tr><td>2</td><td>2U (3.50")</td><td>6 adapter packs</td></tr><tr><td>4</td><td>4U (7.00")</td><td>12 adapter packs</td></tr></tbody></table>		Description	Nom Capacity	1	1U (1.75")	3 adapter packs	2	2U (3.50")	6 adapter packs	4	4U (7.00")	12 adapter packs	<table border="1"><tbody><tr><td>B</td><td>Black</td></tr></tbody></table>	B	Black								
	Description	Nom Capacity																					
1	1U (1.75")	3 adapter packs																					
2	2U (3.50")	6 adapter packs																					
4	4U (7.00")	12 adapter packs																					
B	Black																						
Adapters/Pigtails	Splice Deck Type																						
<table border="1"><tbody><tr><td>0</td><td>None</td></tr><tr><td>A</td><td>Adapters only</td></tr><tr><td>P</td><td>Adapters and singlemode stranded pigtails</td></tr><tr><td>R</td><td>Adapters and singlemode ribbon pigtails</td></tr><tr><td>B</td><td>Adapters and stranded 50/125 multimode pigtails</td></tr><tr><td>D</td><td>Adapters and stranded 50/125 multimode ultra pigtails (300m)</td></tr><tr><td>E</td><td>Adapters and stranded 62.5/125 multimode ultra pigtails</td></tr></tbody></table>	0	None	A	Adapters only	P	Adapters and singlemode stranded pigtails	R	Adapters and singlemode ribbon pigtails	B	Adapters and stranded 50/125 multimode pigtails	D	Adapters and stranded 50/125 multimode ultra pigtails (300m)	E	Adapters and stranded 62.5/125 multimode ultra pigtails	<table border="1"><tbody><tr><td>0</td><td>None or N/A</td></tr><tr><td>2</td><td>Heat Shrink Fusion</td></tr><tr><td>3</td><td>Mechanical</td></tr><tr><td>6</td><td>Nortel Qpak</td></tr></tbody></table>	0	None or N/A	2	Heat Shrink Fusion	3	Mechanical	6	Nortel Qpak
0	None																						
A	Adapters only																						
P	Adapters and singlemode stranded pigtails																						
R	Adapters and singlemode ribbon pigtails																						
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D	Adapters and stranded 50/125 multimode ultra pigtails (300m)																						
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0	None or N/A																						
2	Heat Shrink Fusion																						
3	Mechanical																						
6	Nortel Qpak																						
Connector Style	Loaded Adapter Packs																						
<table border="1"><tbody><tr><td>00</td><td>None</td></tr></tbody></table>	00	None	<table border="1"><tbody><tr><td>00</td><td>None</td></tr><tr><td>01</td><td>1 adapter pack loaded</td></tr><tr><td>02</td><td>2 adapter pack loaded</td></tr><tr><td>03</td><td>3 adapter pack loaded</td></tr><tr><td>04</td><td>4 adapter pack loaded</td></tr><tr><td>06</td><td>6 adapter pack loaded</td></tr><tr><td>08</td><td>8 adapter pack loaded</td></tr><tr><td>12</td><td>12 adapter pack loaded</td></tr></tbody></table>	00	None	01	1 adapter pack loaded	02	2 adapter pack loaded	03	3 adapter pack loaded	04	4 adapter pack loaded	06	6 adapter pack loaded	08	8 adapter pack loaded	12	12 adapter pack loaded				
00	None																						
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01	1 adapter pack loaded																						
02	2 adapter pack loaded																						
03	3 adapter pack loaded																						
04	4 adapter pack loaded																						
06	6 adapter pack loaded																						
08	8 adapter pack loaded																						
12	12 adapter pack loaded																						
Multimode Connectors																							
C1	SC																						
C2	SC (aqua) with zirconia sleeve																						
C3	SC duplex																						
C4	SC duplex (aqua) with zirconia sleeve																						
M1	MTRJ																						
Q1	LC																						
Q2	LC (aqua) with zirconia sleeve																						
Q3	Quad LC																						
Q4	Quad LC (aqua) with zirconia sleeve																						
T1	ST®																						
Singlemode Connectors																							
C5	SC																						
C6	SC duplex																						
Q7	LC duplex																						
Q8	Quad LC																						
T2	ST®																						

Ordering Information

Configurations Readily Available	
Description	Catalog Number
1 RU panel loaded w/1 adapter pack of multimode duplex SC adapters	RMG-1AC3-010B
4 RU panel loaded w/12 adapter packs of multimode duplex SC adapters	RMG-4AC3-120B
4 RU panel loaded w/12 adapter packs of singlemode duplex SC zirconia adapters	RMG-4AC8-120B
2 RU panel loaded w/4 adapter packs of multimode LC adapters	RMG-2AQ1-040B



Fiber Patching and Management

RMG Series Fiber Optic Panels

Empty Panels, Black

The RMG empty panel with blank panels includes 19-inch EIA mounting brackets and hardware, polycarbonate front door, cable ties, cable management rings and improved circuit identification cards. The RMG empty panel allows for the user to mix and match any combination of MTP cassettes and modular adapter packs or simply utilize a "grow as you go" approach to their network.

Features

- Mounting options:
 - Shipped with standard 19-inch EIA rack or cabinet mounting hardware
 - Optional brackets to accommodate 23-inch EIA rack or cabinet mounting.
- Ability to quickly and easily configure, utilizing the modular adapter pack or MTP cassette assemblies.

Ordering Information

Description	Panel Height	Catalog Number
Rack or Cabinet Mount Panel, Black		
1 RU empty panel; accommodates 3 MTP cassettes or 3 modular adapter packs	4.45cm (1.75-inch)	RMG-1000-000B
2 RU empty panel; accommodates 6 MTP cassettes or 6 modular adapter packs	8.89cm (3.50-inch)	RMG-2000-000B
4 RU empty panel; accommodates 12 MTP cassettes or 12 adapter packs; also includes cable management bracket and cable clamp	17.78cm (7.00-inch)	RMG-4000-000B
Accessories		
Cable Clamp Kit (for 1 and 2 rack units)		RMG-ACC001
Label Kit		RMG-ACC002
Splice Tray		
Heat Shrink Fusion		FST-DV-HS
Mechanical		FST-DV-MS
Extender Brackets; 19" to 23"		
1 RU		EB-17B
2 RU		EB-35B



Fiber Patching and Management

RMG Series Fiber Optic Panels

Modular Adapter Packs

ADC's RMG modular adapter pack assemblies can be used in any of the RMG series fiber enclosures in a variety of connector styles and with or without preterminated 3m (9.84 ft) pigtails. Its modular design is user-friendly and easy to install.



Features

- Completely interchangeable between RMG and WMG panel products
- Can be ordered with all standard types of simplex and duplex multimode and singlemode adapters
- Available with preterminated 3m (9.84 ft) pigtails to reduce installation time and cost
- One end of pigtail terminated to chosen connector style and installed into adapter pack plug-in adapters

Note: RMG modular adapter packs are not interchangeable with FL2000 products.

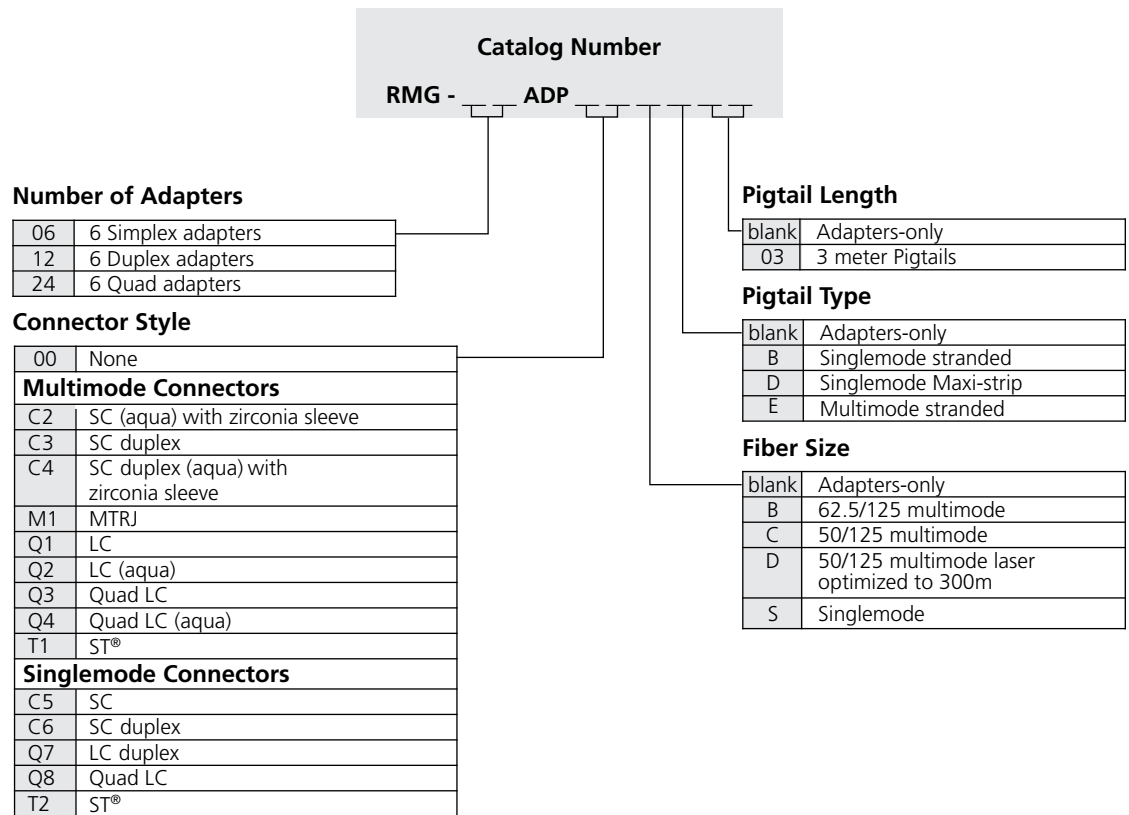
Ordering information follows on the next page



Fiber Patching and Management

RMG Series Fiber Optic Panels

Modular Adapter Packs



Ordering Information

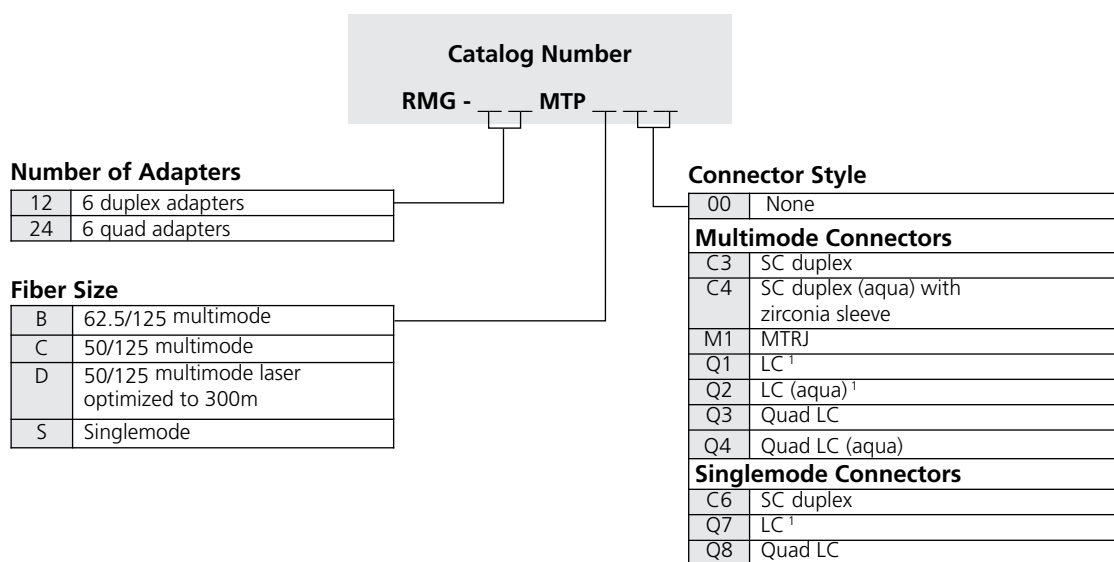
Description	Catalog Number
Adapter Packs Loaded with	
6 multimode LC adapters only	RMG-12ADPQ1
6 multimode ST adapters only	RMG-06ADPT1
6 singlemode SC zirconia adapters	RMG-06ADPC7
6 multimode SC adapters only	RMG-06ADPC1
6 duplex multimode SC adapters only	RMG-12ADPC3

RMG Series Fiber Optic Panels

ADC's RMG modular MTP cassette assemblies can be used in any of the RMG series fiber enclosures in a variety of connector styles. Designed for easy installation and allowing rapid deployment with less labor.



- Completely interchangeable between RMG panel products
- Can be ordered with all standard types duplex and quad multimode and singlemode adapters
- Modular design reduces installation costs.



¹LC adapters terminate two fibers at each adapter and should be considered duplex adapters in this ordering scheme.

Description	Catalog Number
MTP Cassette 50/125 Multimode Fiber	
6 multimode LC adapters	RMG-12MTPCQ1
6 quad multimode LC adapters	RMG-24MTPCQ3



Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes



ADC's FL1000 customer premises fiber termination products include a variety of one and two door wall mount panels. These products are designed specifically to act as part of the fiber distribution system as the demarcation point for the service provider at the customers location.

Recent improvements to labeling grommets, door latches and ribbon pigtail routing reinforce the value these products bring to the physical layer of any network with higher quality and reliability, greater operational efficiencies and network simplification.

Product Overview

Recommended Applications	Ideal for small to medium fiber counts within communication closets or demarcation points
Description	One or two door wall box solution offering excellent fiber protection and technician-friendly cable routing. Termination, termination/splice or splice-only boxes available
Number of fibers, future growth potential	12, 24, 48, 72
Flexibility/ability to grow	Modular growth design
Demarcation	Yes
Accommodates in box splicing	Yes. Built-in
Accommodates out of box splicing	Yes. IFC cable and assembly available
All-front-access	Yes
Customer premises application	Ideal
Wall mount	Yes
VAM capabilities	No
Optimum jumper storage location	Slack storage built-in



Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes

Wall Mount Boxes (One Door)

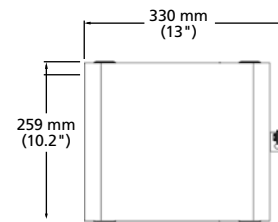
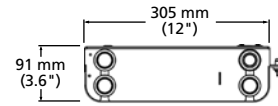
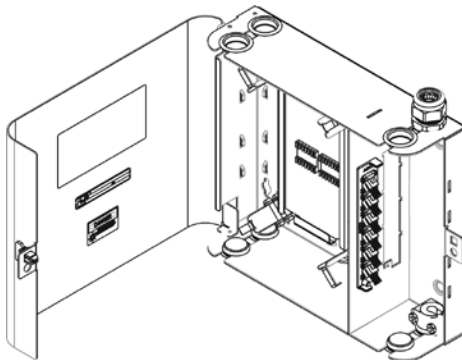
Features

- Numerous cable tie points within the boxes
- Ability to accept locks
- Acceptance of cable clamps at each corner
- Grounding screws, mounting screws and dust caps are included with each panel.

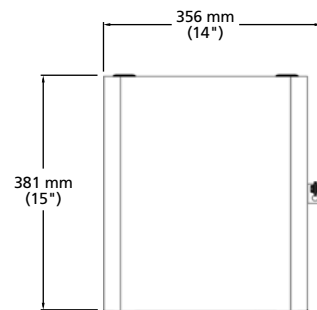
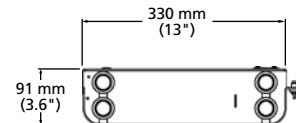
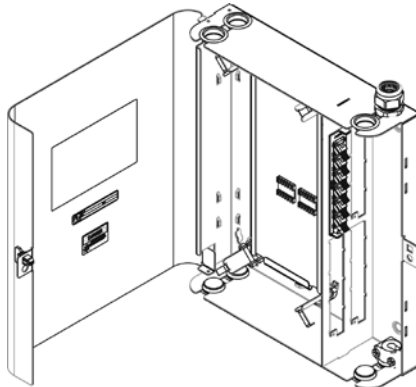


Wall Box
(one door)

12-Position Termination/Splice Wall Box



24-Position Termination/Splice Wall Box



See ordering information on following page.



Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes

Wall Mount Boxes (One Door)

How to order

1. Select wall box type
2. Select 6pak adapters (with or without fiber)
3. Select 6pak adapter/connector type (choose placement in the wall box)
4. Select splice tray with chip
5. Select quantity of cable clamps (0–9)
6. Select quantity of compression fittings (0–9)
7. Select quantity of bonding grounding kits (0–9)

Catalog Number	
FL1-	A B C D N N - 0

Wall Box Type

A	12-position termination/splice
B	24-position termination/splice
C	48-position splice-only

6pak Adapters

3	Adapters with pigtails
4	Adapter-only
6	Singlemode or multimode 62.5/125 µm 6-fiber stranded softwall bundle (12-fiber for LC)
9	Singlemode or multimode 62.5/125 µm 12-fiber ribbon
I	Multimode 50/125 µm stranded softwall bundle

6pak Adapter/Connector Type^{1, 2}

Multimode	
N	None/NA
9	SC
6	LC ³
Singlemode	
N	None/NA
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish ³
Z	LC angled polish ³

Accessories
(Enter the desired quantity 0–9 above the corresponding accessory.)

Cable clamp
Compression fittings
Bonding grounding kit

Splice Tray with Chip

1	Bare fusion
2	Heat shrink (single fiber fusion)
3	Mechanical (mass fusion)
N	None

¹ For a fully loaded 12-position wall box, fill in spaces A & B with 6pak adapter/connector type. Populate fields C & D with "N".

² For a fully loaded 24-position wall box, fill in spaces A, B, C & D with 6pak adapter/connector type.

³ LC connectors and adapters double the capacity of the panel by terminating two fibers at each adapter.

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



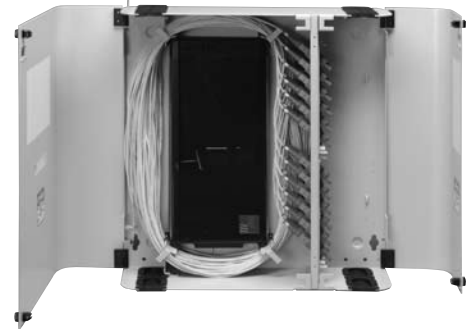
Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes

24-Position Termination/Splice Wall Box (Two Door)

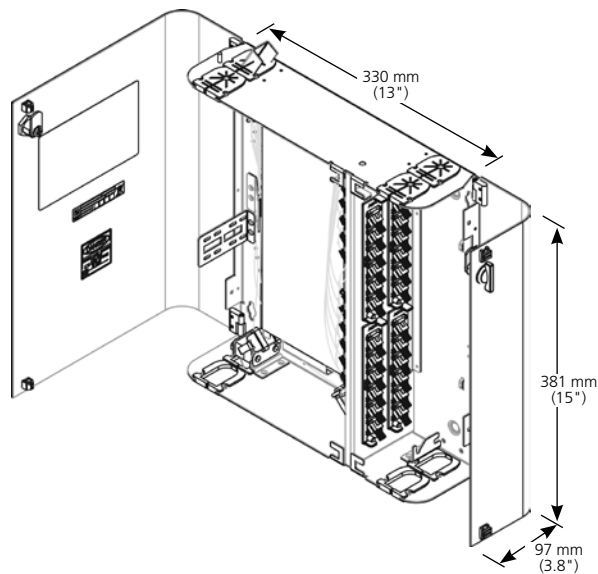
Features

- Uses 6pak adapters with angled retainers
- Multiple, configurable locking options that allow users and service providers separate access for security
- Acceptance of strength member tie-off hardware
- Acceptance of cable clamps at each corner
- Grounding screws, mounting screws and dust caps are included with each panel.



Wall Box
(two door)

24-Position Termination/Splice Wall Box



See ordering information on following page.



Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes

Wall Mount Boxes (Two Door)

How to order:

1. Select wall box type
2. Select 6pak adapters (with or without fiber)
3. Select 6pak adapter/connector type (choose placement in the wall mount box)
4. Select splice tray with chip
5. Select quantity of cable clamps (0–9)
6. Select quantity of compression fittings (0–9)
7. Select quantity of bonding grounding kits (0–9)
8. Select quantity of strength member tie-off kits (each wall box accepts 2, maximum) (0–9)
9. Select lock type

Catalog Number

FL1-

A

B

C

D

E

-

Wall Box Type

G	12-position termination/splice
H	24-position termination/splice
J	48-position termination/splice
P	72-position termination/splice

6pak Adapters

3	Adapters with pigtails
4	Adapter-only
6	Singlemode or multimode 62.5/125 µm 6-fiber stranded softwall bundle installed (12-fiber for LC)
9	Singlemode or multimode 62.5/125 µm 12-fiber ribbon
I	Multimode 50/125 µm stranded softwall bundle

6pak Adapter/
Connector Type¹

Multimode	
N	None/NA
9	SC
6	LC ²
Singlemode	
N	None/NA
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish ²
Z	LC angled polish ²

Splice Tray with Chip

1	Bare fusion
2	Heat shrink (single fiber fusion)
3	Mechanical (mass fusion)
N	None

Accessories

(Enter the desired quantity 0–9 above the corresponding accessory.)

Cable clamp
Compression fittings
Bonding grounding kit
Strength member tie-off

Lock Type

N	None
A	(2) A keys
B	(2) B keys
C	(1) A key, (1) B key

¹ Use the guides on the next page for placement of 6paks. Place the desired connector or adapter type above the corresponding location designation of A, B, C, D or E. The diagram on the following page illustrates the location of each 6pak within the bulkhead.

² LC connectors and adapters double the capacity of the panel by terminating two fibers at each adapter.

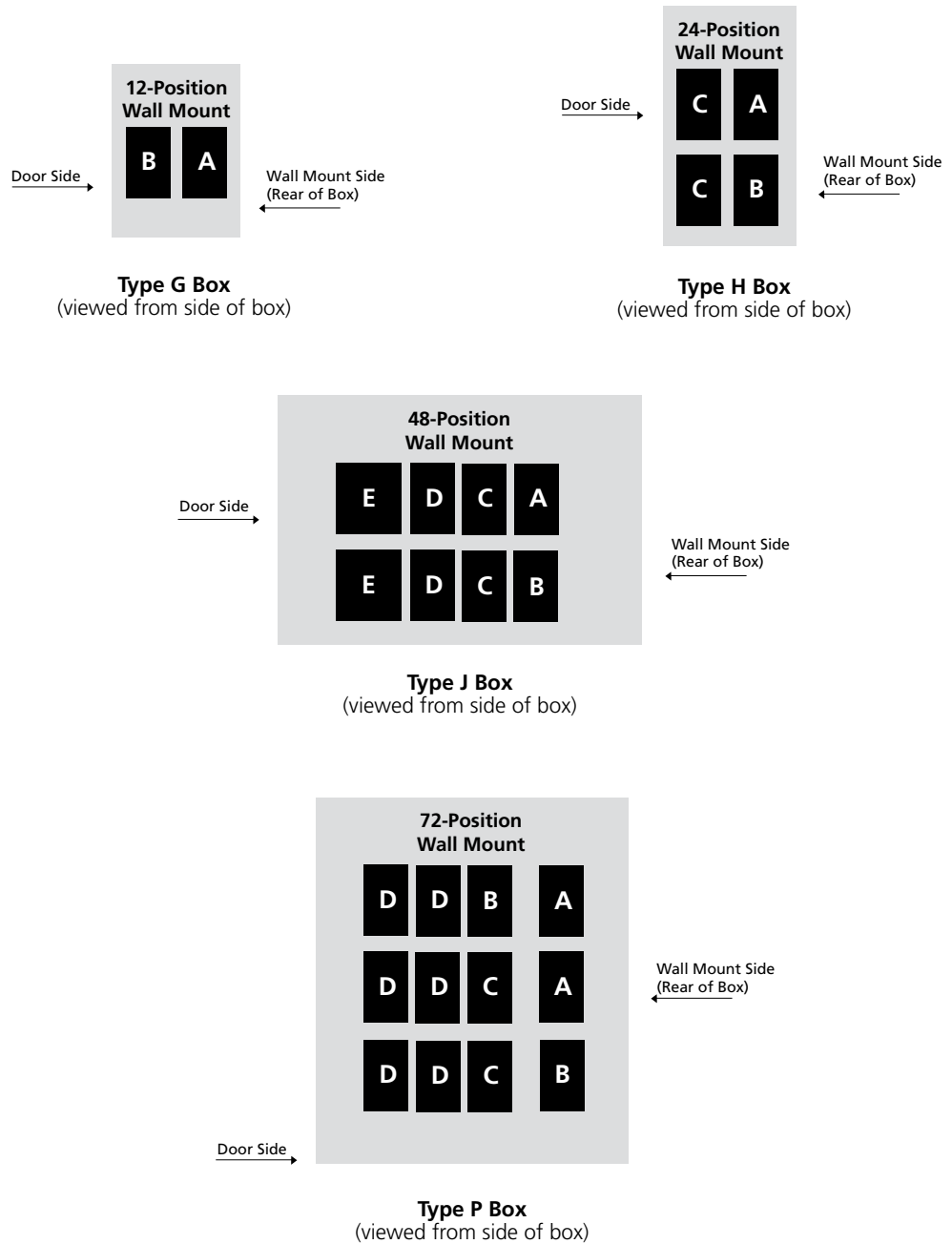
Other configurations are available upon request. Please contact ADC Technical Assistance Center.



Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes

Placement of 6paks for Wall Mount Boxes (Two Door)



Note: All configured wall boxes will have adapter packs loaded starting from the wall side.



Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes

Wall Mount Boxes (One Door or Two Door) with Multifiber Cable

How to order:

1. Select wall box type
2. Select near end/far end connector and adapter type
3. Select cable size
4. Select cable type (IFC or OSP)
5. Select entrance point
6. Select cable length
7. Select locking options

Catalog Number

FL 1 - A / B - - - - -

Wall Box Type

A	12-position, 1 door wall box
B	24-position, 1 door wall box
G	12-position, 2 door wall box
H	24-position, 2 door wall box
J	48-position, 2 door wall box
P	72-position, 2 door wall box

Near End (A)/Far End (B) Connector and Adapter Type

Multimode	
9	SC
6	LC ¹
Singlemode	
7	SC ultra polish
J	SC angled polish
2	FC ultra polish
8	LC ultra polish ¹
Z	LC angled polish ¹

Cable Size

1	12
2	24
4	48
7	72
9	96 (48-position panel using LC connectors)
A	144 (72-position panel using LC connectors)

Lock Type

N	None
A	(2) A keys
B	(2) B keys
C	(1) A key, (1) B key

Cable Length

008	8 m (25')
016	16 m (50')
023	23 m (75')
031	31 m (100')
039	39 m (125')
046	46 m (150')
061	61 m (200')
077	77 m (250')
092	92 m (300')
122	122 m (400')
153	153 m (500')

Entrance Point

1	Bottom left
2	Top left

Cable Type

Multimode	
NC	IFC stranded 62.5/125 µm riser
Singlemode	
NA	IFC stranded riser
NS	IFC ribbon riser
NR	OSP armored ribbon (24-fibers or more)

¹ LC connectors and adapters double the capacity of the panel by terminating two fibers at each adapter.

Other configurations are available upon request. Please contact ADC Technical Assistance Center.

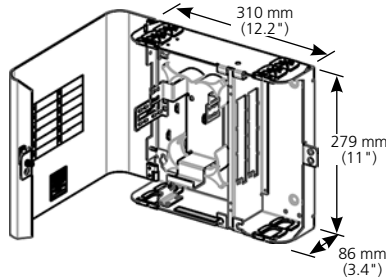


Fiber Patching and Management

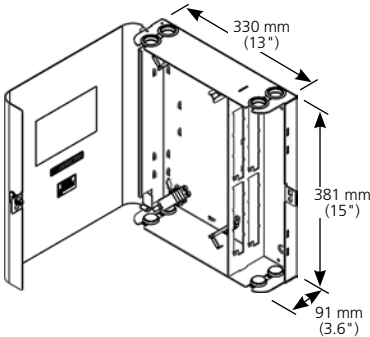
FL1000 Series Fiber Optic Wall Boxes

One Door Wall Mount Chassis

Allows single door access.



**12-Position Termination/Splice
One Door Wall Box
(FL1-A)**



**24-Position Termination/Splice
One Door Wall Box
(FL1-B)**

Ordering Information

Description	Catalog Number
Empty Termination/Splice Chassis	
12-position	FL1-A
24-position	FL1-B
Empty Splice-Only Chassis	
48-position	FL1-C

All empty chassis' use ADC FL1000 and FL2000 6pak adapters.

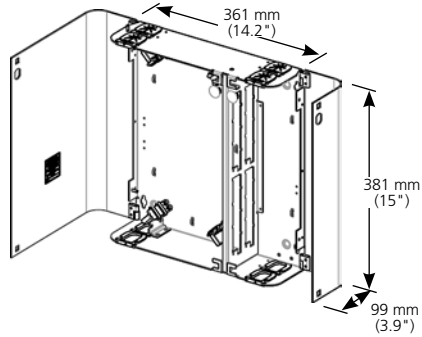


Fiber Patching and Management

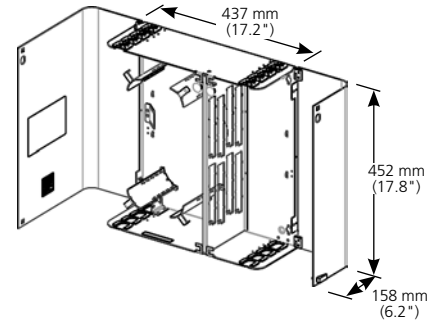
FL1000 Series Fiber Optic Wall Boxes

Two Door Wall Mount Chassis

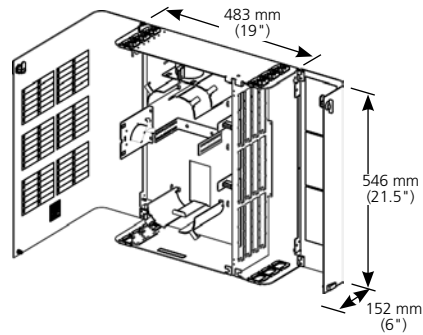
Allows separate customer and provider access.



**24-Position Termination/Splice
Two Door Wall Box
(FL1-H)**



**48-Position Termination/Splice
Two Door Wall Box
(FL1-J)**



**72-Position Termination/Splice
Two Door Wall Box
(FL1-P)**

Ordering Information

Description	Catalog Number
Empty Termination/Splice Chassis	
12-position	FL1-G
24-position	FL1-H
48-position	FL1-J
72-position	FL1-P
Empty Splice-Only Chassis	
144-position	FL1-Q



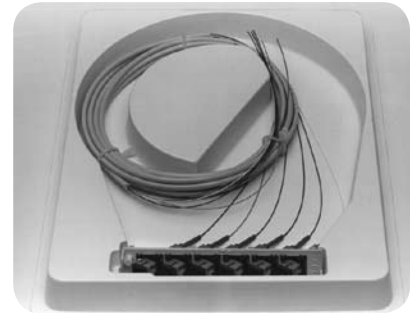
Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes

6pak Adapter — Adapters and Pigtails

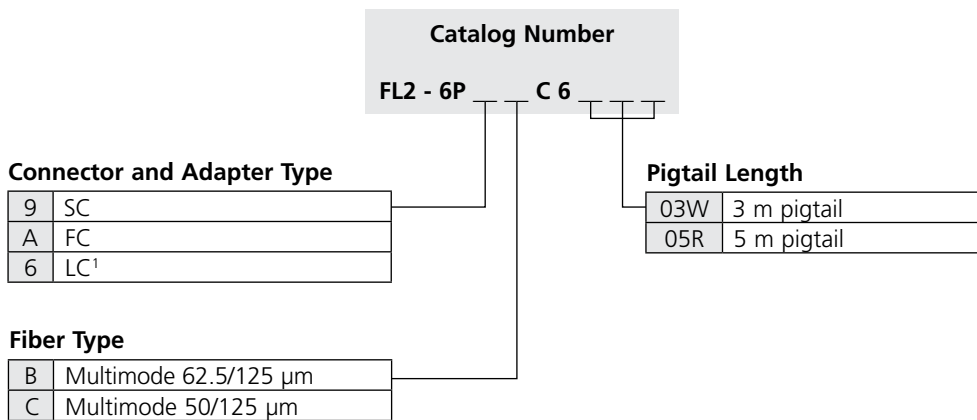
Features

- Can be purchased and installed as growth necessitates
- Available with preterminated three- or five-meter pigtails
- Pigtails consist of a single outer jacket containing six color-coded 900 μm fibers
- One end of pigtail terminated with chosen connector style and installed into the 6pak adapter
- Saves installation time



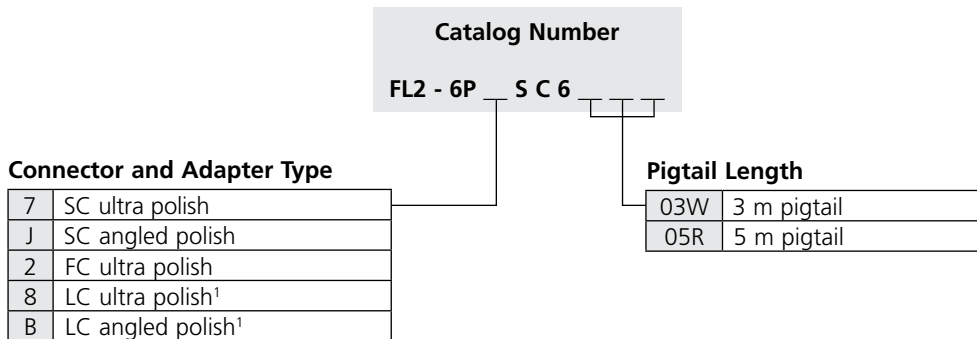
6pak Adapter
(with SC adapters and pigtails)

Stranded Multimode Pigtails and Adapters



¹ LC 6paks are loaded with 12-fiber pigtails.

Stranded Singlemode Pigtails and Adapters



¹ LC 6paks are loaded with 12-fiber pigtails.

Other configurations are available upon request. Please contact ADC Technical Assistance Center.



Fiber Patching and Management

FL1000 Series Fiber Optic Wall Boxes

Miscellaneous



6pak Adapter-Only
(without fiber)

Ordering Information

Description	Catalog Number
Multimode 6pak Adapter-Only¹	
SC	FL2-6PMMSC
FC	FL2-6PMMFC
LC	FL2-6PMMLC
Singlemode 6pak Adapter-Only¹	
SC ultra polish	FL2-6PSMSC
SC angled polish	FL2-6PSMASC
FC ultra polish	FL2-6PSMFC
LC ultra polish*	FL2-6PSMLC
LC angled polish*	FL2-6PSMALC
Compression Fitting	FL1-ACC001
Compression Fitting with Plate	FL1-ACC006
Strength Member Tie-Off Kit	FL1-ACC003
Cable Clamp	FL1-ACC011
Bonding Grounding Kit	FL1-ACC004
Lock and Key Type A	IPA-K1
Lock and Key Type B	IPA-K2
Mini-Splice Tray; (used only in 12-position, wall-mount box)	
Bare fusion	FST-M-FT
Heat shrink (single fiber fusion)	FST-M-HS
Mechanical (mass fusion)	FST-M-MT
Standard Splice Tray	
Bare fusion	FST-FT
Heat shrink (single fiber fusion)	FST-HS
Mechanical (mass fusion)	FST-MT

*Includes 12 fibers

¹ For 6paks with fiber, see the previous page.



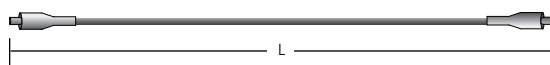
Fiber Patching and Management

Fiber Optic Patch Cords

Specifications

Multimode Ultra Polish Connectors	SC	ST®	FC	LC	LX.5®
Insertion Loss (850/1310nm)	0.5dB max.	0.5dB max.	0.5dB max.	0.5dB max.	0.4dB max. 0.15dB typical
Return Loss (850/1310nm)	20dB min.	20dB min.	20dB min.	20dB min.	25dB min.
Singlemode Ultra Polish Connectors (UPC)	SC	ST®	FC	LC	LX.5®
Insertion Loss (1310 and 1550nm)	0.2dB max. 0.09dB typical	0.2dB max. 0.15dB typical	0.2dB max. 0.09dB typical	0.3dB max. 0.1dB typical	0.2dB max. 0.08dB typical
Return Loss (1310 and 1550nm)	57dB min.	57dB min.	57dB min.	55dB min.	57dB min.
Fiber Recess	± 50nm	± 50nm	± 50nm	-100 to +50nm	± 50nm
Apex Offset	50 micron max.	50 micron max.	50 micron max.	50 micron max.	50 micron max.
Radius of Curvature	10–25mm	10–25mm	10–25mm	10–25mm	10–25mm
Singlemode Angled Polish Connectors (APC)	SC	ST®	FC	LX.5®	
Insertion Loss (1310 and 1550nm)	0.5dB max. 0.15dB typical	0.5dB max. 0.2dB typical	0.5dB max. 0.15dB typical	0.2dB max. 0.08dB typical	
Return Loss (1310 and 1550nm)	65dB min.	65dB min.	65dB min.	65dB min.	
Polished Endface Radius	5–15mm	5–15mm	5–15mm	5–12mm	
Fiber Recess	-100 to +50nm	-100 to +50nm	-100 to +50nm	± 50nm	
Apex Offset	50 micron	50 micron	50 micron	65 micron	
Endface Angle	8° ± 0.5	8° ± 0.5	8° ± 0.5	8° ± 0.5	

Patch Cords



Length
0 to 15m
+15m

Tolerance
+16cm/-0cm
+1%/-0cm

Multifiber



Length
0 to 15m
+15m

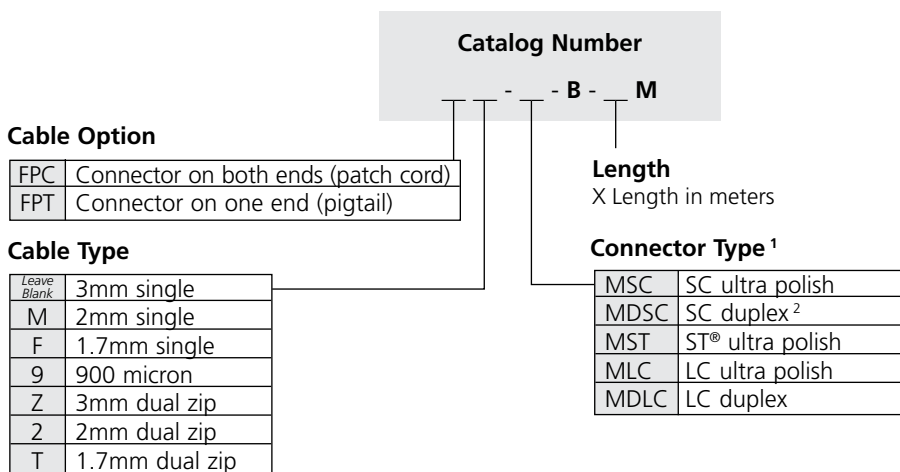
Tolerance
+16cm/-0cm
+1%/-0cm



Fiber Patching and Management

Fiber Optic Patch Cords

62.5/125 Multimode



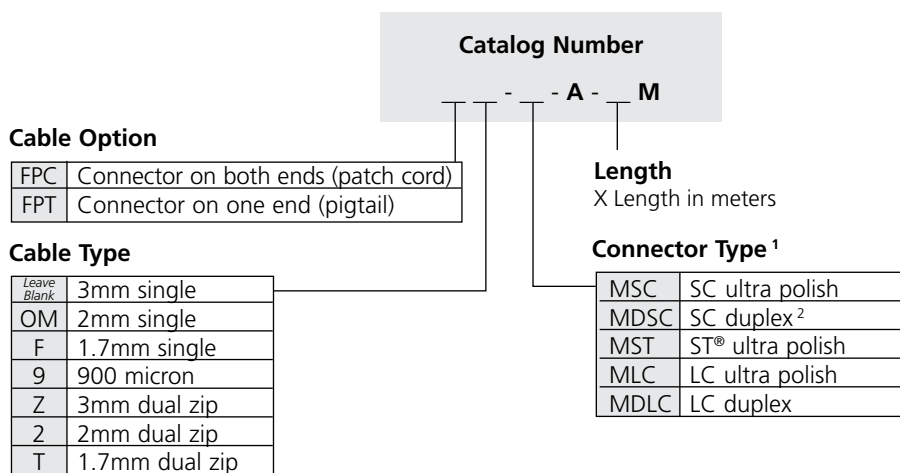
¹ For hybrid patch cords, enter both connector types in this field and separate them with a slash mark (/)

² One connector per end; requires dual zip cable

Ordering Example

FPC-MST/MSB-B-7M: Patch cord with ST[®] ultra polish connector on one end and SC ultra polish connector on the other end, 62.5/125 fiber size, 7 meters in length.

50/125 Multimode



¹ For hybrid patch cords, enter both connector types in this field and separate them with a slash mark (/)

² One connector per end; requires dual zip cable

Ordering Example

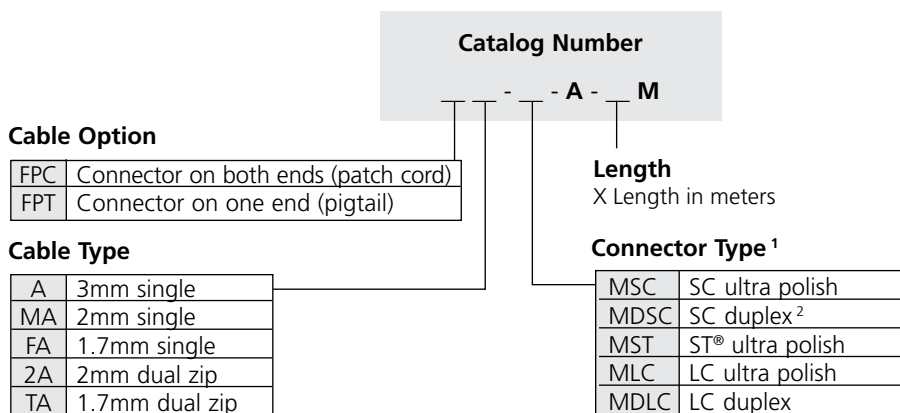
FPC2-MSC/MLC-A-7M: Patch cord with SC ultra polish connector at one end and LC ultra polish on the other end, 2mm dual zip 50/125 fiber, 7 meters in length.



Fiber Patching and Management

Fiber Optic Patch Cords

50/125 Ultra Multimode (Laser Optimized to 300m)



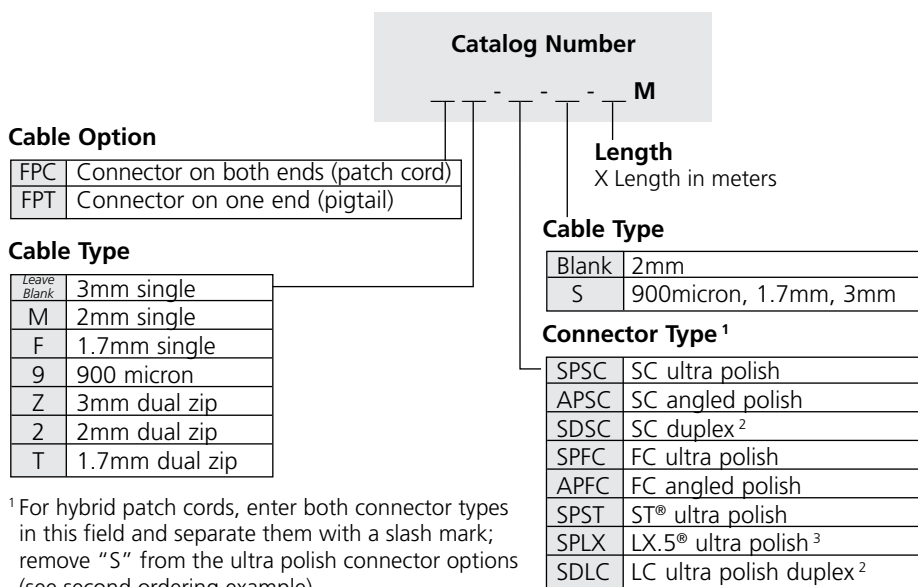
¹ For hybrid patch cords, enter both connector types in this field and separate them with a slash mark (/)

² One connector per end; requires dual zip cable

Ordering Example

FPCTA-MSC/MLC-A-7M: Patch cord with SC ultra polish connector at one end and LC ultra polish on the other end, 2mm dual zip 50/125 ultra fiber, 7 meters in length.

Singlemode



¹ For hybrid patch cords, enter both connector types in this field and separate them with a slash mark; remove "S" from the ultra polish connector options (see second ordering example).

² One connector per end; requires dual zip cable

Ordering Example

FPC2-SPFC-10M: Patch cord with ultra polish FC connectors on both ends, 2mm dual zip cable, 10 meters in length with standard breakout length of 12" on both ends.

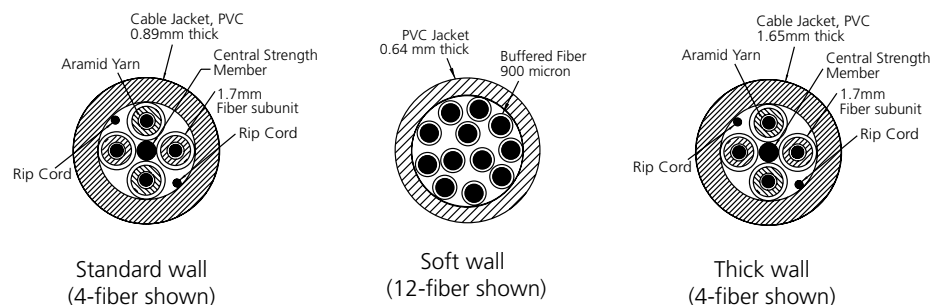
FPC-SPST/PSC-S-10M: Patch cord with ST® ultra polish connector on one end and SC ultra polish connector on the other end, 10 meters in length.



Fiber Patching and Management

Fiber Optic Patch Cords

Multifiber Patch Cords (4 to 32 fibers)



Standard wall: Available with 4, 6, 12 or 32 tight buffered 1.7mm fibers enclosed in a standard wall outer jacket. Each 1.7mm fiber is coded for easy identification of individual fibers. Central strength member, aramid yarn; PVC jacket thickness 0.89mm.

Soft wall: Available with 6, 8 or 12 tight buffered 900 micron fibers with a thin outer jacket. No central strength member or aramid yarn; PVC jacket thickness 0.64mm.

Thick wall: Available with 4 or 24 tight buffered 1.7mm fibers. Each 1.7mm fiber is coded for easy identification of individual fibers. Central strength member, aramid yarn; PVC jacket thickness 1.65mm.

Multimode

Catalog Number

MFPM- / - M- /

Connector Type (1st and 2nd end)

0	Stub
9	SC ultra polish
5	ST® ultra polish
A	FC ultra polish
P	LC ultra polish

Length
X Length in meters

Breakout Length
X Length in inches
Leave blank if both ends 12"

Cable Type

WB	4-fiber soft wall, 62.5/125
PB	6-fiber soft wall, 62.5/125
NB	12-fiber soft wall, 62.5/125

Singlemode

Catalog Number

FPM-0 / - M- /

Connector Type (1st and 2nd end)

0	Stub
7	SC ultra polish
4	ST® ultra polish
2	FC ultra polish
E	SC angled polish
D	FC angled polish
K	LC ultra polish

Length
X Length in meters

Breakout Length
X Length in inches
Leave blank if both ends 12"

Cable Type

A	4-fiber thick wall with 1.7mm subunits
D	4-fiber standard wall with 1.7mm subunits
W	4-fiber soft wall
E	6-fiber standard wall with 1.7mm subunits
P	6-fiber soft wall
L	8-fiber soft wall
F	12-fiber standard wall with 1.7mm subunits
M	12-fiber soft wall
AD	24-fiber thick wall with 1.7mm subunits
BD	32-fiber thick wall with 1.7mm subunits



Fiber Patching and Management

FiberGuide® Fiber Management System

The Industry's Most Comprehensive Optical Raceway System

ADC's FiberGuide® fiber management systems offer the greatest breadth of optical raceway products in the industry. In response to customer requirements, ADC continues to innovate and improve FiberGuide systems, adding greater flexibility and driving down installation time to ensure a smooth deployment.

FiberGuide is a raceway system designed to protect and route fiber optic patch cords, multi-fiber cable assemblies and intrafacility fiber cable (IFC) to and from fiber splice enclosures, fiber distribution frames and fiber optic terminal devices. FiberGuide ensures a two-inch minimum bend radius is maintained throughout the system. Tool-less, Snap-Fit™ junctions, cover options and Plenum Express Exit™ drops significantly reduce the amount of time required for installation.

The FiberGuide system is a complete set of products designed and manufactured to ensure total off-frame protection and ease of use. Basic components include horizontal and vertical straight sections, horizontal and vertical elbows, downspouts, junctions and numerous support hardware and flex-tube kits.

Available in a variety of sizes:

2x2 – Ideal for smaller installations or for vertical routing of a maximum of four hundred 2 mm fiber optic patch cords. All 2x2 FiberGuide products are shipped with covers.

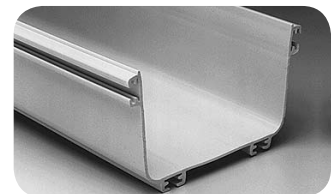
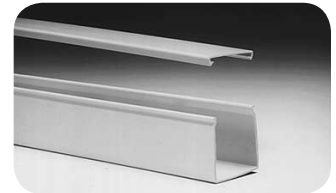
2x6 – Designed for height restricted environments, this robust system provides the same support and system flexibility of the traditional 4-inch-high system while saving 2 inches of overhead space. It features a maximum capacity of 1,200, 2 mm patch cords.

4x4 – Features the maximum capacity to support 1,600, 2 mm patch cords. It has been engineered to allow straight sections to be self-supporting over a span of up to 1.83 m (6 feet).

4x6 – Features the same benefits of the 4-inch system and a maximum trough capacity of 2,400, 2 mm patch cords.

4x12 – The 12-inch-wide trough has a maximum capacity to support nearly 5,000, 2 mm patch cords. Perfect for runs over fiber frame lineups and perimeter routes.

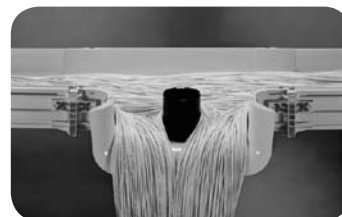
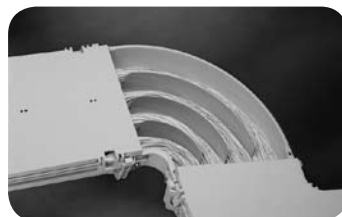
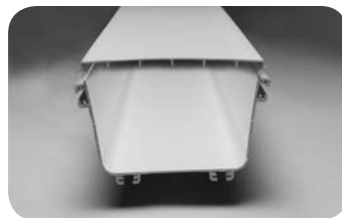
4x24 – The 4x24-inch system is the ultimate raceway solution to securely route and protect patch cords over high-density optical distribution frames including ADC's Next Generation Frame (NGF) and Next Generation 3 Frame (NG3®). Designed for maximum capacity, this robust system provides the same support and flexibility as the traditional 4x12-inch system while doubling capacity.





Fiber Patching and Management

FiberGuide® Fiber Management System



Features and Benefits

- **Speed of Installation**

FiberGuide® systems feature a variety of products that allow for quick and easy installation. Express Exit™ drops as well as tool-less products including Snap-Fit™ junctions, snap-on covers and new hinged cover options save valuable time for installers.

- **Speed of Deployment**

The Express Exit system enables new drops to be added or removed quickly and easily. A drop can be added into a fully loaded raceway in seconds—without cutting.

- **Raceway Flexibility**

FiberGuide features 38 support structures, over 75 fittings, multiple drop options and several other components to suit any application you create.

- **Fiber Protection**

ADC's broadband expertise translates into maximum protection for your network. Two-inch minimum bend radius is maintained throughout the system regardless of the raceway size.

- **Strength and Durability**

100% raceway reliability—stands up to any challenge.



Fiber Patching and Management

FiberGuide® Fiber Management System

Recommended capacity takes into consideration random jumper placement into the FiberGuide® system. Maximum density refers to the maximum number of fiber jumpers in a given cross-section of a FiberGuide installation. The TracerLight® Connector Identification System is ADC's newest patch cord solution. It features slightly different dimensions than standard patch cords.

Recommended/Maximum Density

1.7 mm Patch Cords (per in ²)	2.0 mm Patch Cords (per in ²)	3.0 mm Patch Cords (per in ²)
120/142	90/102	40/44

Trough Pileup Recommended/Maximum Density

	2-Inch	3-Inch	4-Inch
4x24 System			
1.7 mm	5760/6816	8640/10224	11520/13632
2.0 mm	4320/4869	6480/7344	8640/9792
3.0 mm	1920/2112	2880/3168	3840/4224
4x12 System			
1.7 mm	2880/3408	4320/5112	5760/6816
2.0 mm	2160/2448	3240/3672	4320/4896
3.0 mm	960/960	1440/1584	1920/2112
4x6 System			
1.7 mm	1440/1704	2160/2556	2880/3408
2.0 mm	1080/1224	1620/1836	2160/2448
3.0 mm	480/528	720/792	960/1056
4x4 System			
1.7 mm	960/1136	1440/1704	1920/2272
2.0 mm	720/816	1080/1224	1440/1632
3.0 mm	320/352	480/528	640/704
2x6 System			
1.7 mm	1440/1740	–	–
2.0 mm	1080/1224	–	–
3.0 mm	480/528	–	–
2x2 System			
1.7 mm	480/568	–	–
2.0 mm	360/408	–	–
3.0 mm	160/176	–	–

TracerLight® Patch Cords—65 Patch Cords per in²

	2-inch	3-inch	4-inch
4x24 System	3120	4680	6420
4x12 System	1560	2340	3120
4x6 System	780	1170	1560
4x4 System	520	780	1040
2x6 System	780	–	–
2x2 System	260	–	–

For complete product ordering information see ADC literature number:
104892AE FiberGuide® Fiber Management Systems Catalog or contact ADC customer service.



Fiber Patching and Management

Fiber Optic Bulk Cable

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ADC has over 15 years of fiber cable manufacturing experience and offers a complete family of high performance cable and related product.

- Loose tube cable (outside plant)
- Flame retardant (Plenum and riser) loose tube cable
- Intrafacility and distribution cable
- Patch cord/pigtail cables
- Specialty cables
 - Tactical and broadcast cable for rapid deployment
 - Aircraft cable
 - Shipboard cables
 - Cables for extreme temperature and operating environments
 - Cables for remote operating vehicles
 - Furcation tubing for optical devices

Features

- Each fiber tested to specifications after cabling
- Each fiber type available in all standard ADC cable designs
- All multimode fiber types exceed Gigabit Ethernet industry standards (IEEE 802.3z)
- Ultra 50 μ m fiber is laser-optimized for 300 meter 10Gbps applications (IEEE 802.3ae)
- Ultra 50 μ m fiber for 550 meter 10Gbps applications is also available

For complete product ordering information see ADC literature number: **105239AE Fiber Cable Products** or contact ADC Customer Service.

RF Signal Management



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SignalOn® Series

RF Signal Management

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Introduction

Advanced broadband services are being developed and launched at an ever-accelerating pace. While these services vary, they have one thing in common. Whether it be high-speed data, video-on-demand, or IP telephony, broadband subscribers expect a reliable, high-quality experience at an affordable price.

ADC's SignalOn® Series has been designed with these demanding service requirements in mind. This next generation RF signal management platform provides unmatched density, RF performance, and reliability—all at a competitive price. With its patented hitless “make-before-break” attenuator circuit design, maintaining your RF signal network has never been easier.

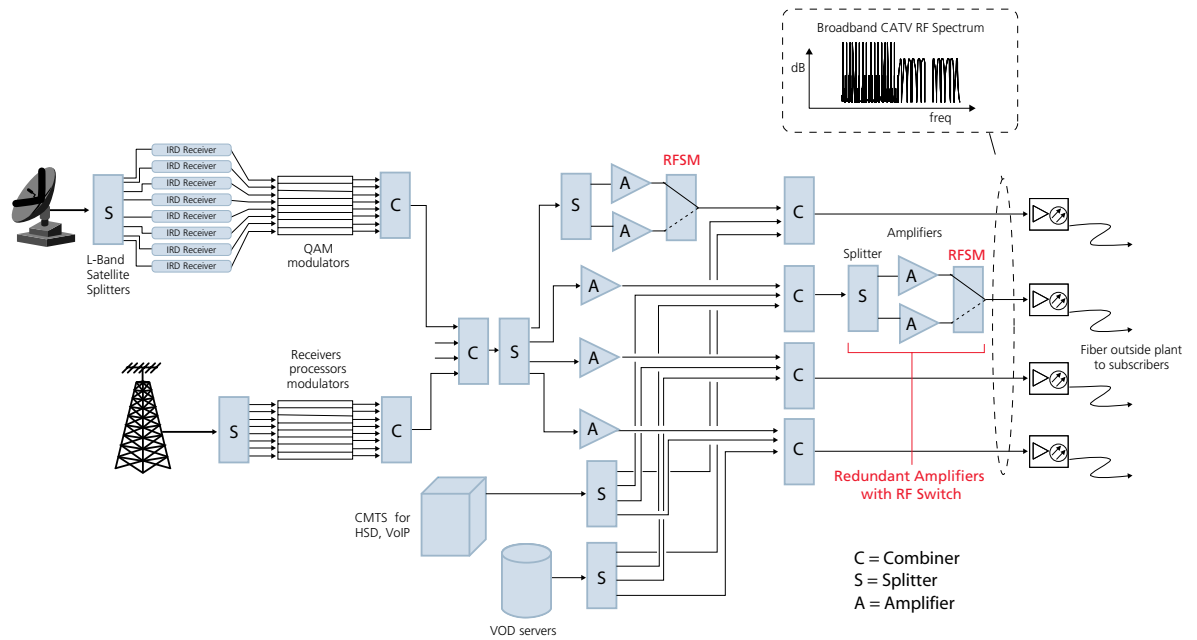


SignalOn® Series

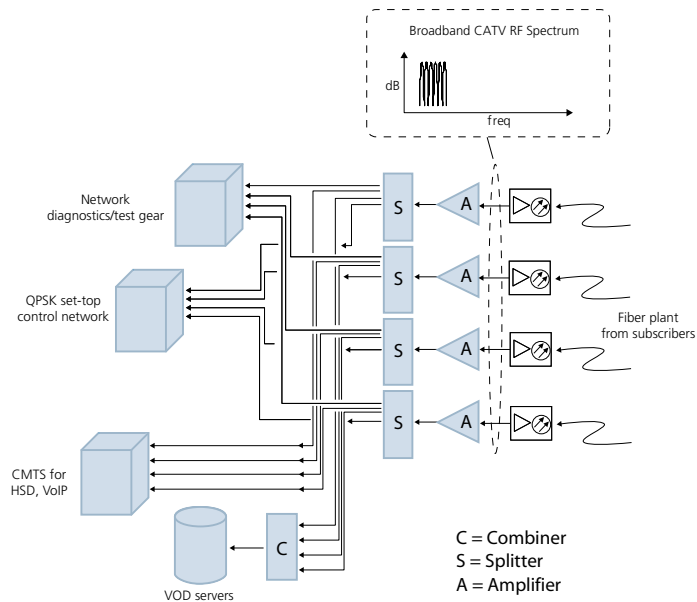
RF Signal Management

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Typical Downstream Configuration



Typical Upstream Configuration





SignalOn® Series

RF Signal Management

Chassis



32-Position, 4 RU Drawer



20-Position, 5 RU Chassis



8-Position, 2 RU Chassis



4-Position, 1 RU Chassis



2-Position, 1 RU Chassis

Catalog Number	
N - C	B
Type	Power Kit
32D 32-position, Drawer	N No
20V 20-position, Vertical	Y Yes*
08H 8-position, Horizontal	
04H 4-position, Horizontal	
02H 2-position, Horizontal	

* 20 and 8-position only

Ordering Information

Description	Catalog Number
Passive Chassis	
32-position high-density chassis, 4 RU, black	N-C32DNB
20-position chassis, 5 RU, black	N-C20VNB
20-position chassis, 5 RU, NEBS	N-C20VN-NEBS
8-position chassis, 2 RU, black	N-C08HNB
8-position reversible chassis, 2 RU, black	N-C08HNB-R
4-position chassis, 1 RU, black	N-C04HNB
2-position chassis, 1 RU, black	N-C02HNB
Active Chassis	
20-position powered chassis, 5 RU, black	N-C20VYB
20-position powered chassis, 5 RU, NEBS	N-C20VY-NEBS
8-position powered chassis, 2 RU, black	N-C08HYB



SignalOn® Series

RF Signal Management

Passives: Introduction

The SignalOn® Series, combined with the innovative cable management of the chassis, provides engineers with a variety of products to simplify the RF signal management challenge.

Passives: RF Splitter/Combiner Modules 5 MHz to 1 GHz

Catalog Number	
N - M	
Module Type	Make-Before-Break Attenuation**
P Plain splitter/combiner	M0 0 dB default
C Combiner with pad/monitor	M6 6 dB default
S Splitter with pad/monitor	
X Splitter and combiner with pad/monitor (2 x 4:1 module only)	
Connector Type	Configuration
F F	12 2:1
B BNC	14 4:1
	18 8:1
	32 3 x 2:1*
	24 2 x 4:1*

*3 x 2:1 and 2 x 4:1 housed in a single module.

**Leave last two digits blank for plain modules.



Plain Splitter/Combiner Module



Pad and Monitor Module with Make-Before-Break Attenuation

Features

- Industry's highest density with standard F and BNC connectors
- Industry's best performance and specifications
- Individual performance certificate shipped with every module
- Patented make-before-break attenuator pad design for hitless signal balancing
- Chassis supports both passive and active modules
- Clear chassis door provides protection and clear view of modules
- Clear attenuator pad covers and patented pad guides for simplified maintenance
- High quality, precision F or BNC connectors
- Designed to exceed NEBS requirements for grounding/bonding
- Independent EMI near and far-field testing
- Ten year warranty on all passive modules
- Available in 1 RU, 2 RU, 4 RU and 5 RU chassis
- NEBS Level 3 compliant

Selection of default pad option for pad and monitor modules

The make before break attenuation feature requires that a default attenuation padding value be chosen for the module. The two options are:

M0 – 0 dB loss on the splitter or combiner leg when attenuator pad is removed

The M0 option is used in systems where the attenuator pad values will range from 0 dB to 10 dB.

M6 – 6 dB loss on the splitter or combiner leg when attenuator pad is removed

The M6 option is typically used in systems where the attenuator pad values range from 10 dB to 25 dB. In this situation, the additional 6 dB of loss that is placed in line when the pad is removed will help to limit overdriving active devices further downstream and will help limit transmitter laser clipping, and overdriving of RF amplifiers in the distribution plant.



SignalOn® Series

RF Signal Management

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RF Signal Management

Ordering Information

Description			Catalog Number
Plain Splitter/Combiner Modules			
BNC connector	2:1 plain		N-MPB12
	4:1 plain		N-MPB14
	8:1 plain		N-MPB18
	3 x 2:1 plain		N-MPB32
	2 x 4:1 plain		N-MPB24
F connector	2:1 plain		N-MPF12
	4:1 plain		N-MPF14
	8:1 plain		N-MPF18
	3 x 2:1 plain		N-MPF32
	2 x 4:1 plain		N-MPF24
BNC connector	0 dB default	2:1 combiner with monitor	N-MCB12M0
		2:1 splitter with monitor	N-MSB12M0
		2x4:1 combiner with monitor	N-MCB24M0
		2x4:1 splitter with monitor	N-MSB24M0
		2x4:1 splitter/combiner with monitor	N-MXB24M0
		3x2:1 combiner with monitor	N-MCB32M0
		3x2:1 splitter with monitor	N-MSB32M0
		4:1 combiner with monitor	N-MCB14M0
		4:1 splitter with monitor	N-MSB14M0
		8:1 combiner with monitor	N-MCB18M0
		8:1 splitter with monitor	N-MSB18M0
	6 dB default	2:1 combiner with monitor	N-MCB12M6
		2:1 splitter with monitor	N-MSB12M6
		2x4:1 combiner with monitor	N-MCB24M6
		2x4:1 splitter with monitor	N-MSB24M6
		2x4:1 splitter/combiner with monitor	N-MXB24M6
		3x2:1 combiner with monitor	N-MCB32M6
		3x2:1 splitter with monitor	N-MSB32M6
		4:1 combiner with monitor	N-MCB14M6
		4:1 splitter with monitor	N-MSB14M6
		8:1 combiner with monitor	N-MCB18M6
		8:1 splitter with monitor	N-MSB18M6



SignalOn® Series

RF Signal Management

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Ordering Information

Description		Catalog Number	
Splitter/Combiner with Pad and Monitor Modules			
F connector	0 dB default	2:1 combiner with monitor	N-MCF12M0
		2:1 splitter with monitor	N-MSF12M0
		2x4:1 combiner with monitor	N-MCF24M0
		2x4:1 splitter with monitor	N-MSF24M0
		2x4:1 splitter/combiner with monitor	N-MXF24M0
		3x2:1 combiner with monitor	N-MCF32M0
		3x2:1 splitter with monitor	N-MSF32M0
		4:1 combiner with monitor	N-MCF14M0
		4:1 splitter with monitor	N-MSF14M0
		8:1 combiner with monitor	N-MCF18M0
		8:1 splitter with monitor	N-MSF18M0
	6 dB default	2:1 combiner with monitor	N-MCF12M6
		2:1 splitter with monitor	N-MSF12M6
		2x4:1 combiner with monitor	N-MCF24M6
		2x4:1 splitter with monitor	N-MSF24M6
		2x4:1 splitter/combiner with monitor	N-MXF24M6
		3x2:1 combiner with monitor	N-MCF32M6
		3x2:1 splitter with monitor	N-MSF32M6
		4:1 combiner with monitor	N-MCF14M6
		4:1 splitter with monitor	N-MSF14M6
		8:1 combiner with monitor	N-MCF18M6
		8:1 splitter with monitor	N-MSF18M6



SignalOn® Series

RF Signal Management

Passives:
Directional Coupler Modules
5 MHz to 1 GHz

Catalog Number
N - MD

Connector Type

F	F
B	BNC

Circuit Quantity

1	Single circuit
3	Triple circuit

Application Type

R	Rear narrowcast signal port
---	-----------------------------

DC Value

09	9 dB
12	12 dB
20	20 dB
V12	12 dB variable



Directional Coupler

Ordering Information			
Description			Catalog Number
Directional Coupler Modules			
BNC connector	9 dB	Triple circuit	N-MDB309R
		Single circuit	N-MDB112R
		Triple circuit	N-MDB312R
	12 dB	6x variable	N-MDB6V12R
		Single circuit	N-MDB120R
		Triple circuit	N-MDB320R
F connector	9 dB	Triple circuit	N-MDF309R
		Single circuit	N-MDF112R
		Triple circuit	N-MDF312R
	12 dB	6x variable	N-MDF6V12R
		Single circuit	N-MDF120R
		Triple circuit	N-MDF320R

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SignalOn® Series

RF Signal Management

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Passives: Conditioning and Monitor Modules

Features

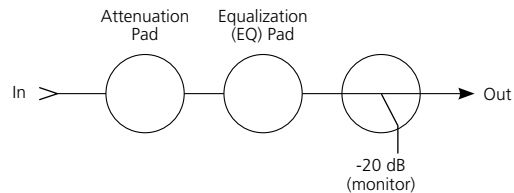
- Typically placed at the input to the forward path optical transmitter, this module allows for conditioning and grooming of the RF signal gain and slope. It is designed as 1:1 input to output with two MBB circuits in series for pad and EQ placement.
- -20 dB front facing monitor port
- NEBS Level 3 compliant



Triple C & M
F-Connectors

Ordering Information

Description	Catalog Number
Conditioning and Monitor Modules; triple circuit, 20 dB, 0 dB default	
BNC connector	N-MMB320FM0
F connector	N-MMF320FM0



Conditioning and monitor module schematic



SignalOn® Series

RF Signal Management

Passives: L-Band Satellite Splitter Modules 950 MHz to 2.15 GHz

ADC's new L-Band series satellite splitter modules are engineered for the highest performance in the 950 MHz to 2.15 GHz frequency range. These plain splitter/combiner modules feature dual port **power-passing** capability for powering LNB's. All L-Band modules are available with precision F or BNC connectors, and are NEBS Level 3 compliant.

Catalog Number		Configuration	
N - ML		12	2:1
		14	4:1
		18	8:1
		32	3 x 2:1*
		24	2 x 4:1*

Connector Type	
F	F
B	BNC

*Housed in a single module.

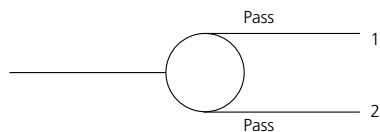


L-Band
Satellite Splitter

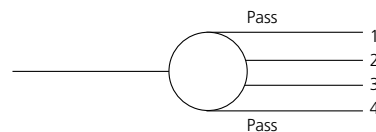
Ordering Information

Description		Catalog Number
L-Band Satellite Splitter Modules		
BNC connector	2:1 splitter	N-MLB12
	4:1 splitter	N-MLB14
	8:1 splitter	N-MLB18
	3x2:1 splitter	N-MLB32
	2x4:1 splitter	N-MLB24
F connector	2:1 splitter	N-MLF12
	4:1 splitter	N-MLF14
	8:1 splitter	N-MLF18
	3x2:1 splitter	N-MLF32
	2x4:1 splitter	N-MLF24

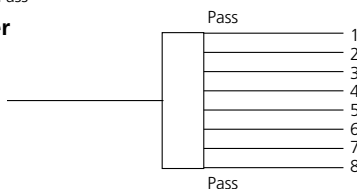
All L-Band modules feature dual port power passing capability.



2-Way Splitter



4-Way Splitter



8-Way Splitter



SignalOn® Series

RF Signal Management

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Actives: Introduction

Today's broadband services require high-quality headend infrastructure that offers excellent performance, reliability and design flexibility. Furthermore, your infrastructure solution should maximize the uptime of carrier-class services like VoIP, VOD and HSD as applications evolve and your network changes.

Leveraging over a decade of RF amplifier design experience, ADC's SignalOn® amplifiers have been engineered to meet these demanding service requirements. Featuring operation from 50 MHz to 1 GHz, the amplifiers offer excellent performance and reliability. SignalOn amplifiers and associated power supplies can be housed in the same chassis as the SignalOn passive products for increased design flexibility. With its electronically variable gain and slope controls, you can adjust signal levels in your network with no service downtime.

SignalOn amplifiers feature non-service-affecting gain and slope controls. This capability along with the patented make-before-break attenuator pad design of the splitters and combiners, allow for "hitless" RF signal adjustment—critical for today's carrier-class broadband service applications.

Features

- Operation from 50 MHz to 1 GHz
- GaAs technology with near-100% surface mount design for high performance
- Meets MIL-202 specs for quality and reliability
- Mounts in same SignalOn chassis as passive modules for maximum design flexibility
- Digitally variable gain and slope control for non-service-affecting signal level adjustments
- 20 dB monitor points on both input and output signals for testing and troubleshooting
- "Blind-mate" power bus connector with gold-on-gold contacts; requires no cabling
- Chassis-mounted AC-DC and DC-DC power supply options
- Redundant powering with dual load shared power supplies for increased availability
- External +24 Vdc powering option
- NEBS Level 3 compliant



Amplifier
(front view)



20-Position, 5 RU Powered Chassis
(with mixture of passive and active modules)



20-Position, 5 RU Powered Chassis
(rear view)



8-Position, 2 RU Powered Chassis
(front view)



8-Position, 2 RU Powered Chassis
(rear view)



SignalOn® Series

RF Signal Management

Actives: Amplifier Modules



Amplifier
(front view)

Ordering Information

Description		Catalog Number
Forward Path Amplifier Modules		
BNC connector	20 dB	N-MAB20FA
	30 dB	N-MAB30FA
F connector	20 dB	N-MAF20FA
	30 dB	N-MAF30FA

PERFORMANCE ATTRIBUTE	20 dB Forward Amplifier	30 dB Forward Amplifier
Bandwidth	50-1000 MHz	50-1000 MHz
Optimum RF input	+20 dBmV per channel	+10 dBmV per channel
Minimum full gain	20.0 dB	30.0 dB
Gain adjustment range	10 +/-1 dB in 0.5 dB steps	10 +/-1 dB in 0.5 dB steps
Tilt adjustment range	10 +/-1 dB @ 50 MHz in 0.5 dB steps	10 +/-1 dB @ 50 MHz in 0.5 dB steps
Gain flatness	+/- 0.4 dB from 50 to 870 MHz +/- 0.5 dB from 870 to 1000 MHz	+/- 0.45 dB from 50 to 870 MHz +/- 0.65 dB from 870 to 1000 MHz
Return loss, input and output ports	-19.0 dB from 50 to 870 MHz -16.5 dB from 870 to 1000 MHz	-18.0 dB from 50 to 870 MHz -15.0 dB from 870 to 1000 MHz
Noise figure	7.3 dB from 50 to 870 MHz 7.6 dB from 870 to 1000 MHz	5.7 dB from 50 to 870 MHz 6.2 dB from 870 to 1000 MHz
CTB1	-73.1 dB	-78.9 dB
CSO1	-81.7 dB	-84.5 dB
IMD1	-78.2 dB	-83.7 dB
Monitor ports	-20 dB test point for both RF input and RF output	
Power dissipation	17W max	
Operating temperature	0 - 50 degrees C	
Dimensions	8.55"H x 1.67"W x 7.81"D	
Power connector	gold-on-gold, slide-on contacts	
Thermal shock	Meets MIL-STD-202 Method 107	
Office vibration	Meets GR-63-Core Section 5.4.2	
Mechanical shock	Meets MIL-STD-202 Method 213	
Accelerated aging	Meets MIL-STD-202 Method 108	
NEBS	Meets NEBS Level 3	

Note: Measured with 110 channel loading and optimum RF input level at full gain and no tilt. Specifications are typical worst-case numbers across the given frequency range, unless otherwise noted, and are subject to change without notice.



SignalOn® Series

RF Signal Management

Actives: Power Supply Modules



Power Supply
(front view)

Ordering Information

Description	Catalog Number
Power Supply Modules	
AC to DC	N-MVUVAC
DC to DC	N-MV48DC

Specifications

PERFORMANCE ATTRIBUTE	AC-DC	DC-DC
Input voltage	90-264 Vac, 50/60 Hz	36-72 Vdc nominal
Efficiency	75% nominal	80% nominal
Output voltage	24 Vdc $\pm$ 5%	24 Vdc $\pm$ 5%
Output power	200W (24 Vdc @ 8.33 Amps)	192W (24 Vdc @ 8 Amps)
Amplifiers supported	Up to nine 30 dB amplifiers	Up to nine 30 dB amplifiers
Redundancy	Yes, dual load sharing	Yes, dual load sharing
Operating temperature	0 - 50° C	0 - 50° C
Dimensions	8.55"H x 1.67"W x 12.96"D	8.55"H x 1.67"W x 12.96"D
Power connector	gold-on-gold, slide-on contacts	gold-on-gold, slide-on contacts
Test points	24 Vdc output test points	24 Vdc output test points
Fan	Field replaceable unit	Field replaceable unit
Alarm relays	Fan fail, output power fail	Fan fail, output power fail
TTL contacts	Remote inhibit, input power fail, output power fail	Remote inhibit, input power fail, output power fail
NEBS	Meets NEBS Level 3	Meets NEBS Level 3



SignalOn® Series

RF Signal Management

Actives: RF Switch Modules

The ADC SignalOn® RF Switch Module (RFSM) is designed for use with the SignalOn 8-position, or 20-position powered chassis. All RF connections to the switch are made through standard 75 Ω BNC, or F connectors on the rear of the module. All operating controls and indicators are located on the front panel with configuration controls located on the rear of the module.

The primary function of the module is to monitor the RF signal gain of the operating primary "A" input, and switch to the backup "B" input if the gain of the primary path rises, or falls below the pre-set customer selected threshold. Should the "A" input side go above, or fall below the threshold of the unit, the RFSM will rapidly switch the input from the failed input to the secondary input. This switch usually is less than 10 milliseconds. Switch status, failure LEDs, and RF level bar graphs are mounted on the front panel of the switch module. Switching threshold: ± 3 dB or ± 6 dB, and alarm contact closures are located on the rear of module.



Dual RF Switch Module

Features

- Continuous monitoring of primary and secondary
- Detects both high and low power failures
- User-selectable switching threshold: ± 3 dB or ± 6 dB
- Fail-over switching time < 10 ms
- Automatic switchback after "A" path is restored
- Front-panel LED status and dual power level displays
- Alarm contact for remote failure monitoring
- Available in BNC and F-connector configurations
- Single or dual modules
- Easily configured for redundancy or A-B switch applications
- Front panel bar graph display provides indication of RF power and switching threshold
- Indication of switch status provided by front panel LED and rear terminal block contacts
- Easily configured switching threshold levels via rear DIP switch
- One-step calibration
- Auto switch-back feature to primary input
- Built-in delay to prevent from false switching
- Automatic or manual modes of operation
- NEBS Level 3 compliant

Ordering Information

Description		Catalog Number
Redundant RF Switch Modules		
BNC connector	Single circuit	N-MRFSM1-B
	Dual circuit	N-MRFSM2-B
F connector	Single circuit	N-MRFSM1-F
	Dual circuit	N-MRFSM2-F



SignalOn® Series

RF Signal Management

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Actives: Reverse Path Amplifier Modules

ADC's Return Path Amplifier was designed specifically to solve problems particular to your environment. Providing greater density, unparalleled cable management, greater functionality and redundant powering, the return path amplifier is part of the system approach to integrating all signal management functions in a common format and modular system.

To mount modules in SignalOn chassis use these amplifiers in conjunction with N-ACC-BRKT-RA (mounts 1 or 2 amps) – see page 245.



Reverse Path Amplifier

Features

- Fixed 22 dB
- Low distortion characteristics
- Low noise figure
- 5-200 MHz bandwidth
- Two 20 dB monitor ports (input and output)
- BNC or F connectors
- AC or DC powering
- Power redundancy (optional)

Ordering Information

Description		Dimensions (H x W x D)	Catalog Number
Reverse Path Amplifier Modules 22 dB Fixed Gain	BNC connectors	57 mm x 31 mm x 203 mm (2.25" x 1.2" x 8.0")	RFX-AMP-22B
	F connectors		RFX-AMP-22F



SignalOn® Series

RF Signal Management

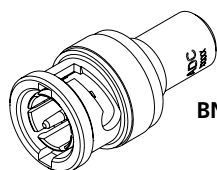
Accessories

Ordering Information

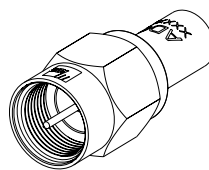
Description	Catalog Number
Cable Management Kits; (includes rack mount cable management rings)	
2 brackets, 2 – 2.5" x 5.5" cable rings	N-ACMK-01P
4 brackets, 4 – 2.5" x 5.5" cable rings	N-ACMK-04P
Chassis Extender Brackets for;	
2-position chassis, 23" rack	EB-17B
8-position chassis, 23" rack	EB-35B
20-position chassis, ETSI 21" rack	EB-87B
Insertion/Withdrawal Tools	
BNC insertion tool with 12" handle	BT2000-12
BNC insertion tool with 24" handle	BT2000-24
F connector insertion tool	SC-FG
Terminating Plugs	
BNC terminating plug, 75 Ω $\pm$ 1.0%	BNC-TP1
BNC high-performance terminating plug, 75 Ω $\pm$.1%	BNC-TP2
F terminating plug, 75 Ω $\pm$ 1.0%	CF-TP1
F high-performance terminating plug, 75 Ω $\pm$.1%	CF-TP2
Attenuator Pads	
XX dB pads, qty 25 (replace XX with 00 through 26)	N-ACC-AP-XX
1-5 dB pads, 5 of each pad value, total qty 25	N-ACC-AP-S1
6-10 dB pads, 5 of each pad value, total qty 25	N-ACC-AP-S2
11-15 dB pads, 5 of each pad value, total qty 25	N-ACC-AP-S3
16-20 dB pads, 5 of each pad value, total qty 25	N-ACC-AP-S4
21-25 dB pads, 5 of each pad value, total qty 25	N-ACC-AP-S5
3,6,9,12,15 dB pads, 5 of each pad value, total qty 25*	N-ACC-AP-M0
0,3,9,12,15 dB pads, 5 of each pad value, total qty 25**	N-ACC-AP-M6
75 Ω termination pads, qty 25	N-ACC-TP-75

* Kit intended for 0 db default MBB modules (-M0 modules)

** Kit intended for 6 db default MBB modules (-M6 modules)



BNC Terminating Plugs
(BNC TP-1 and TP-2)



F Terminating Plugs
(CF TP-1 and TP-2)



SignalOn® Series

RF Signal Management

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Ordering Information

Description	Catalog Number
Equalizer Pads	
2 dB plug-in	N-ACC-LE-02
3 dB plug-in	N-ACC-LE-03
4 dB plug-in	N-ACC-LE-04
5 dB plug-in	N-ACC-LE-05
6 dB plug-in	N-ACC-LE-06
7 dB plug-in	N-ACC-LE-07
8 dB plug-in	N-ACC-LE-08
9 dB plug-in	N-ACC-LE-09
10 dB plug-in	N-ACC-LE-10
11 dB plug-in	N-ACC-LE-11
12 dB plug-in	N-ACC-LE-12
13 dB plug-in	N-ACC-LE-13
DC Power Upgrade Kits for;	
2 RU chassis – used to power 8-position	N-ACC-PWRKIT-08B
5 RU chassis – used to power 20-position	N-ACC-PWRKIT-20B
Power Supply Accessories	
Power cord for power supply	N-ACC-CBL-DC-DC
Fan replacement kit for power supply	N-ACC-FAN
Module Conversion Kits; to install	
1 RF Worx® passive module into SignalOn® chassis	N-ACC-BRKT-RFW
2 RF Worx® reverse amps into powered SignalOn® chassis	N-ACC-BRKT-RA
1 SignalOn® passive module into MAXNET™ chassis1	N-AMCK-01
18 SignalOn® passive modules into MAXNET™ chassis1	N-AMCK-18
Blank Module Covers	
Single blank panel cover	N-ACC-BLANK-01
Dual blank panel cover	N-ACC-BLANK-02
Bulkhead Testpoint Panels	
Single panel with 2 F-81 bulkhead connectors	N-MTPF2
Single panel with 2 F-81 bulkhead connectors	N-MTPF6

¹ MAXNET is a trademark of ATX Networks



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Drawings and Specifications



Patching

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RF Signal Management

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SHDC Jacks for PPM Panels

ELECTRICAL

Characteristic impedance:	75 Ω
Voltage rating:	600 Volts RMS
Bandwidth	
HD LCC:	Up to 3 GHz
HD 1.0/2.3:	Up to 1.0 GHz
Straight-through LCC:	Up to 3 GHz
Straight-through 1.0/2.3:	Up to 1.0 GHz
AES:	Up to 500 MHz
Contact resistance:	.030 Ω max change post environmental
Insulation resistance:	200 M Ω min change

MECHANICAL

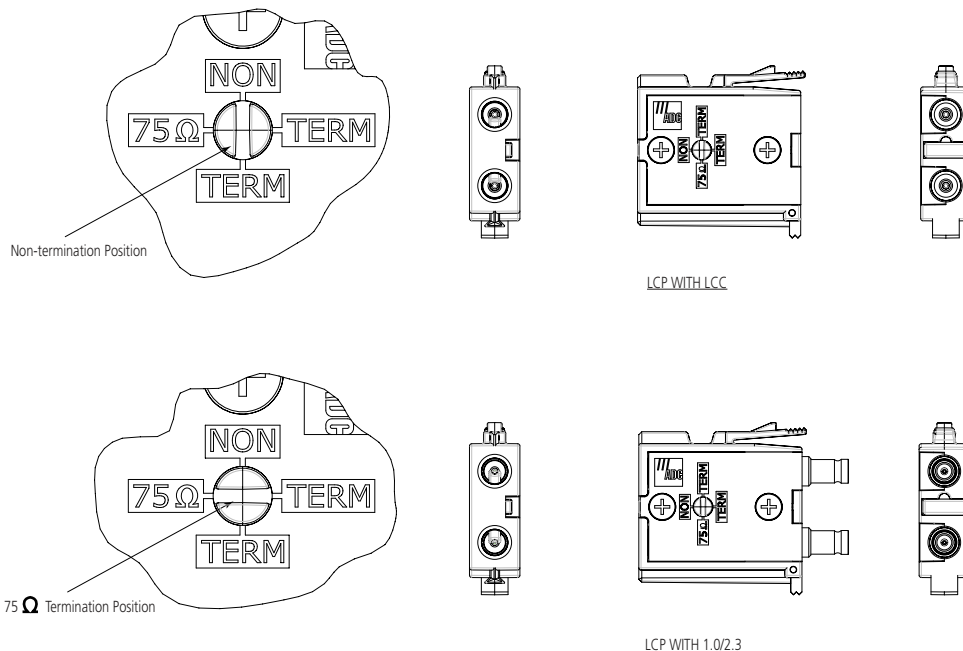
Mechanical durability:	10,000 cycles min (Front port: LCP) 500 cycles min (Back port: LCC)
Center contact retention:	6 lbs min
SHDC jack panel retention:	20 lbs min
Patch cord cable bend and twist:	500 cycles min

ENVIRONMENTAL

Thermal shock:	-40°C to 65°C, operating; -55°C to 85°C, non-operating
Moisture resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (salt spray):	MIL-STD-202 Method 101, Test Condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 201
Solvent resistance:	MIL-STD-202 Method 215

FINISH

Sheet metal panel:	.060 CRS with protective black finish
Jack plastic housing:	30% Glass Filled Valox
Nickel coax housings:	Tarnish-resistant electroless nickel plating
Springs:	Beryllium copper with 50 millionths inch gold plating
Center conductors:	50 millionths inch gold plating



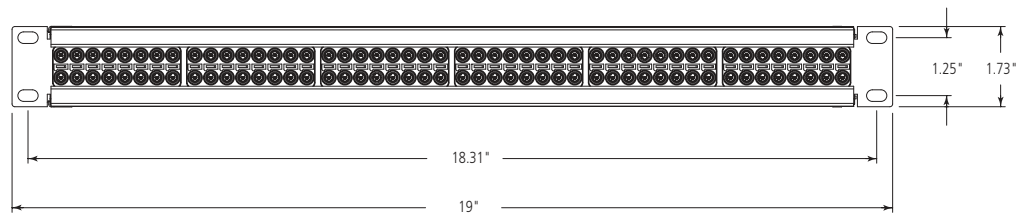


Drawings and Specifications

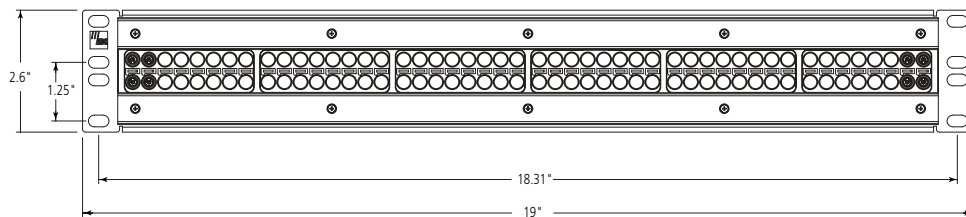
Video Patching Products

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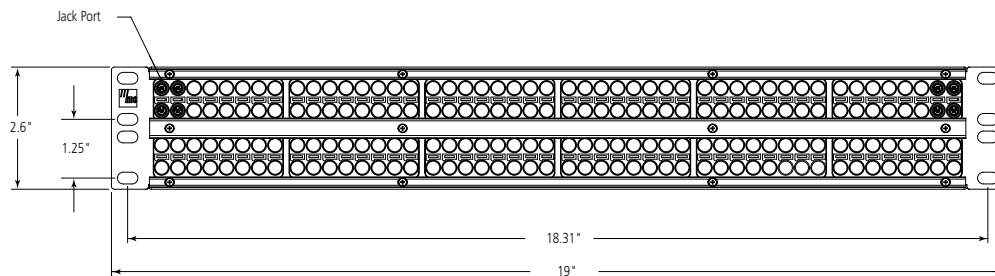
PPM Panels



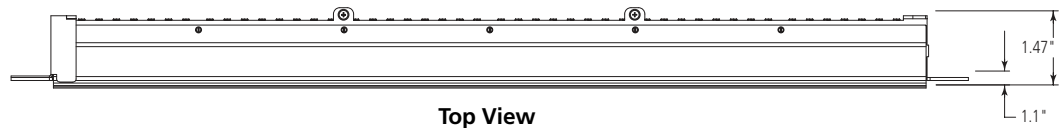
PPM 1248 Series



PPM 15248 Series



PPM 15448 Series



Top View

Drawings and Specifications

Video Patching Products

MVJ-3

WECO HD Midsize Video Jack Specifications

The MVJ-3 Family is rated to handle digital video data rates up to and including uncompressed HDTV SMPTE 292M 1.485 Gbps and SMPTE 424M 3 Gbps.

ELECTRICAL

Rated bandwidth:	1 MHz to 3 GHz
Return loss:	Better than -17 dB; 1 MHz to 3 GHz
Characteristic impedance:	75 Ω
Insertion loss:	0.3 dB Loss to 3 GHz
Center conductor Diameter:	0.048 (.12cm)
Contact resistance:	0.01 W maximum change
Termination resistor:	75 Ω , MVJ-3T only

MECHANICAL

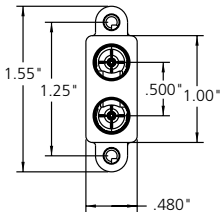
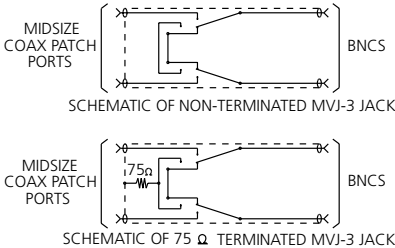
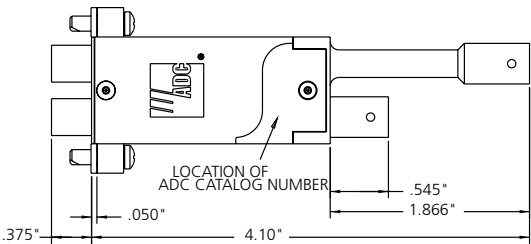
Mechanical shock:	Per MIL-STD-202, Method 213
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	7 lbs (3.17 Kg) maximum
Withdrawal force:	1 lb (.452 Kg) minimum
Life cycles:	20,000

MATERIAL

Body and cover:	Zinc alloy per ASTM B86
Front and rear center conductors:	Beryllium copper per ASTM B196
Insulators:	Unreinforced polyetherimide resin rated UL94-VO for flammability
Switching springs:	Beryllium copper per ASTM B196

ENVIRONMENTAL

Operating temperature:	-40°C to 65°C
Storage temperature:	-40°C to 65°C
Thermal shock:	Per MIL-STD-202, Method 107
Operating humidity:	0% to 95%, non-condensing
Storage humidity:	0% to 95%, non-condensing
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106
Dust resistance:	Per MIL-STD-202, Method 110



MVJ-3 Midsize Video Jack

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Drawings and Specifications

Video Patching Products

WECO HD Midsize Straight-Through Video Jack Specifications

The CJ midsize jacks are rated to handle digital video data rates up to and including uncompressed HDTV SMPTE 292 M 1.485 Gbps. They are also rated for L-Band and S-Band use.

ELECTRICAL

Characteristic impedance:	75 Ω nominal
Return loss:	> 19 dB; 300 KHz to 2.4 GHz
Contact resistance:	10 m Ω typical
Termination resistance (3014N-75/4014N-75):	75 Ω commercial, 1/8 watt 5%

MECHANICAL

Mechanical shock:	Per MIL-STD-202, Method 213
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	7 lbs max
Withdrawal force:	1.5 lbs min

ENVIRONMENTAL

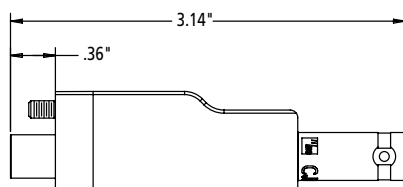
Operating temp:	-40°C to 65°C
Storage temp:	-55°C to 85°C
Thermal Shock:	Per MIL-STD-202, Method 107
Humidity:	0% to 95% non-condensing, operating and non-operating
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106

MATERIAL

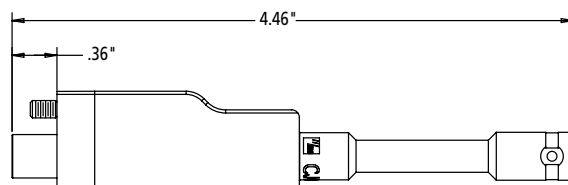
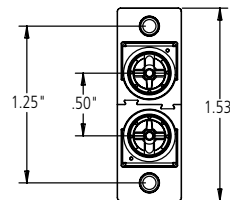
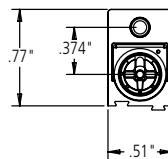
Jack sleeve and frame: per QQ-N-290	CDA 360 brass rod per ASTM B16 with electro-deposit nickel plating
Center conductors: per MIL-G-45204	Phosphor bronze per ASTM B139 with electro-deposited gold plating
Insulators:	TFE-Fluorocarbon per ASTM D1710

OTHER

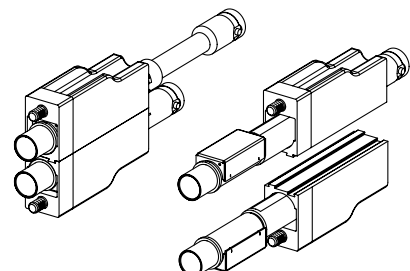
Interface dimensions: pin diameter of .048" (.12 cm)	Outside diameter of mating plugs must be .298" (.75 cm) with
Mounting details: (zinc chromate plated)	Jacks supplied with a 6-32 UNC-2A 5/16" Phillips head screws



CJ3014N and CJ3014N-75



CJ4014N and CJ4014N-75



SVJ-2

Standard Size Super Video Jack Specifications

The SVJ-2 family is rated to handle digital video data rates up to and including uncompressed HDTV SMPTE 292M 1.485 Gbps and SMPTE 424M 3 Gbps.

ELECTRICAL

Rated bandwidth:	2.4 GHz
Return loss:	Better than -20 dB to 2.4 GHz
Characteristic impedance:	75 Ω
Insertion loss:	<.5 dB Loss to 2.4 GHz
Center conductor diameter:	Accepts .09 center conductor
Contact resistance:	Less than 20 m Ω
Termination resistor:	75 Ω , $\pm$ 1%

MECHANICAL

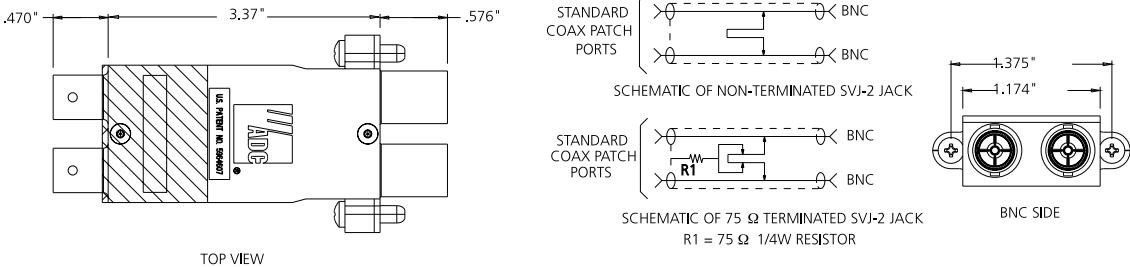
Mechanical shock:	Per MIL-STD-202, Method 213 test condition G
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	12 lbs max
Withdrawal force:	3 lbs min
Life cycles:	20,000 insertion/withdrawal cycles min

MATERIAL

Body and cover:	Zinc diecast per ASTM B86
Front and rear	
Center conductors:	Phosphor bronze per ASTM B139
Insulators:	Polyetherimide resin rated UL 94V-0
Switching springs:	Beryllium copper per ASTM B196

ENVIRONMENTAL

Temperature	
Operating:	-40°C to 65°C
Storage:	-55°C to 85°C
Thermal shock:	Per MIL-STD-202, Method 107
Humidity	
Operating:	0% to 95%, non-condensing
Storage:	0% to 95%, non-condensing
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106
Dust resistance:	Per MIL-STD-202, Method 110A



SVJ-2 Standard Size Super Video Jack



Drawings and Specifications

Video Patching Products

CJ2014N and CJ2020N-75 (terminated)

WECO Standard Size Straight-Through Video Jack Specifications

The CJ standard size jacks are rated to handle digital video data rates up to and including uncompressed HDTV 292M 1.485 Gbps and SMPTE 424M 3 Gbps. They are also rated for L-Band and S-Band use.

ELECTRICAL

Characteristic impedance:	62.5 Ω nominal
Return loss:	> -20 dB; 1 MHz to 2 GHz
Contact resistance:	0.030 Ω max change post environment

MECHANICAL

Mechanical shock:	Per MIL-STD-202, Method 213
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	7 lbs (3.17 kg) min
Withdrawal force:	1.5 lbs (0.675 kg) min
Life:	10,000 insertion/withdrawal cycles min

ENVIRONMENTAL

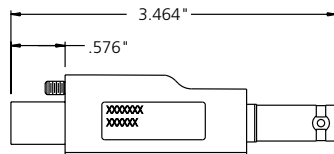
Operating temperature:	-40°C to +65°C
Non-operating temperature:	-55°C to +85°C non-operating
Thermal shock:	Per MIL-STD-202, Method 107
Humidity:	0% to 95% non-condensing, operating and non-operating
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106

MATERIAL

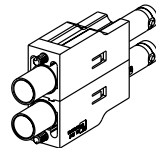
Jack sleeve and frame:	Brass per ASTM B16 with electro-deposited nickel plating per QQ-N-290 or electro-deposited gold plating per MIL-G-45204
Center conductors .090" (.23 cm):	Beryllium copper per QQ-C-533 with electro-deposited gold plating per MIL-G-45204 on contact areas only
Outer conductor contacts:	Phosphor bronze QQ-B-746 with electro-deposited gold plating per MIL-G-45204 or electro-deposited nickel plating per QQ-N-290
Insulators:	Rated UL 94V-0 for flammability
Crimping sleeves:	Brass per ASTM B16 with tin plating per MIL-T-10727

OTHER

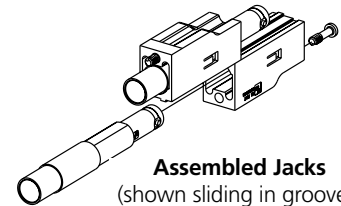
Interface dimensions:	Outer diameter of mating plugs must be .375" (.95 cm) with pin diameter of .090" (.23 cm) or .070" (.18 cm)
Mounting information:	All jacks are supplied with 6-32, 5/16" Phillips head screws



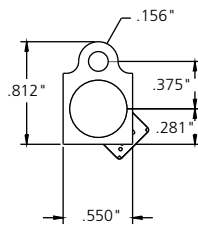
CJ2014N



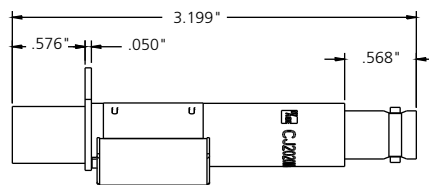
Assembled Jacks
(shown assembled)



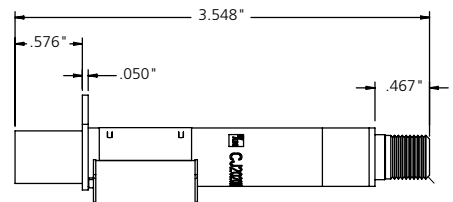
Assembled Jacks
(shown sliding in grooves)



CJ2020-N75
CJ2020-N75FF



Dimensions for CJ2020N-75 and CJ2011N
(CJ2011N has no termination can)



Dimensions for CJ2020-N75FF



Drawings and Specifications

Video Patching Products

SJ2000 Switching Coaxial Jack Specifications

The SJ2000 family is rated to handle analog and digital video data rates up to 360 Mbps

ELECTRICAL

Insertion Loss:	0.4 dB DC to 200 MHz
Characteristic Impedance:	75 Ω nominal
Return Loss:	Better than 15 dB 1 MHz to 600 MHz relative to 75 Ω for .090" (.23 cm) diameter center conductor
Contact Resistance:	0.030 Ω maximum change post environment
Termination Resistor Values:	75 Ω commercial, 1/8 watt, 5%

MECHANICAL

Mechanical Shock:	Per MIL-STD-202, Method 213, Test Condition I
Vibration:	Per MIL-STD-202, Method 201
Insertion Force:	7 lbs (3.17 kg) minimum
Withdrawal Force:	1 lb (0.452 kg) minimum
Life:	10,000 insertion/withdrawal cycles (single port) minimum

ENVIRONMENTAL

Operating Temperature:	-40°C to +65°C operating
Non-operating Temperature:	-55°C to +85°C non-operating
Thermal Shock:	Per MIL-STD-202, Method 107
Humidity:	0% to 95% non-condensing, operating and non-operating
Salt Spray:	Per MIL-STD-202, Method 101
Moisture Resistance:	Per MIL-STD-202, Method 106

MATERIAL

Outer Shell, Jack Bodies and Rear Connectors:	Zinc die-casting with electro-deposit gold plating per MIL-G-45204 or electro-deposited nickel plating per QQ-N-290
Center Conductors:	0.090" (.23 cm) Beryllium copper per QQ-C-533 with electro-deposited gold plating per MIL-G45204 on contact areas only
Insulators:	Unreinforced polyetherimide resin rated UL94V-0 for flammability
Springs:	Beryllium copper per QQ-C-553 with electro-deposited gold plating per MIL-G-45204

INTERFACE DIMENSIONS

Standard Size:	Outside diameter of mating plugs must be .375" (.95 cm) with pin diameter of .090" or (.23 cm) or .070 (.18 cm)
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MOUNTING INFORMATION:

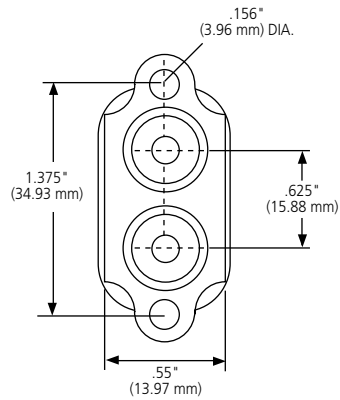
All jacks are supplied with two 6-32, round head, 5/16" Phillips head screws



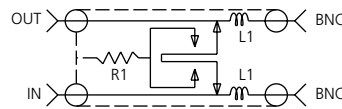
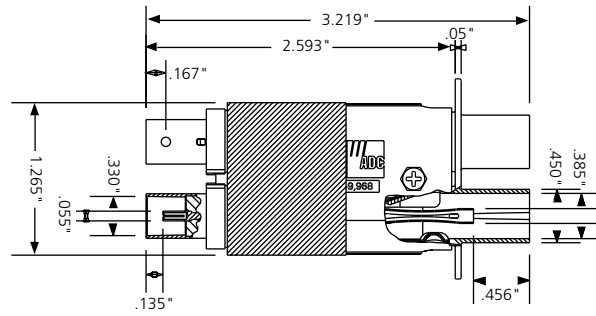
Drawings and Specifications

Video Patching Products

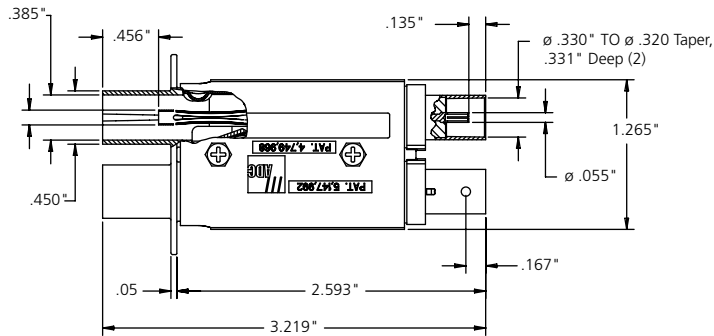
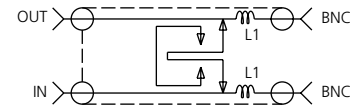
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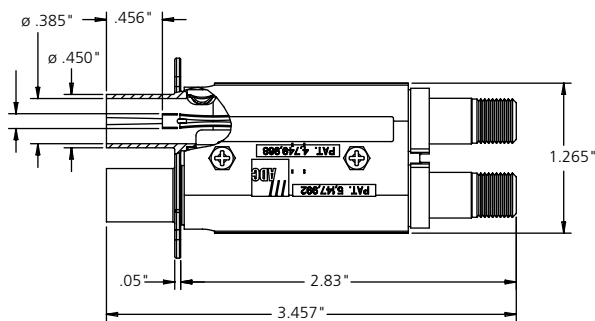
**SJ2000 Standard Size
Switching Coaxial Video Jack**



REFERENCE SCHEMATIC



**SJ2000 WECO BNC to BNC
Coaxial Video Jack**



**SJ2000N-75F Modified F-connection
Switching Coaxial Video Jack**

Drawings and Specifications

Video Patching Products

SMJ 2100

MUSA Straight-Through Video Jack Specifications

The SMJ family is rated to handle analog and digital video data rates up to and including HDTV SMPTE 242M 1.485 Gbps and SMPTE 424M 3 Gbps. They are also rated for L-Band and S-Band use.

ELECTRICAL

Characteristic impedance:	75 Ω nominal
Return loss:	> 17 dB; 300 KHz to 2.4 GHz
Contact resistance:	10 m Ω typical

MECHANICAL

Mechanical shock:	Per MIL-STD-202, Method 213
Vibration:	Per MIL-STD-202, Method 201
Insertion force:	7 lbs maximum
Withdrawal force:	1.5 lbs minimum

ENVIRONMENTAL

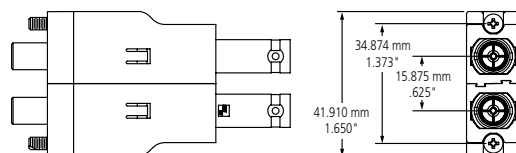
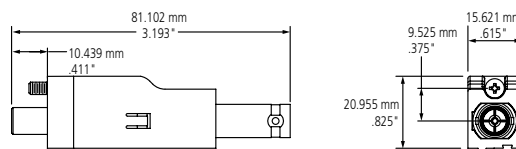
Operating temp:	-40°C to 65°C
Storage temp:	-55°C to 85°C
Thermal shock:	Per MIL-STD-202, Method 107
Humidity:	0% to 95% non-condensing, operating and non-operating
Salt spray:	Per MIL-STD-202, Method 101
Moisture resistance:	Per MIL-STD-202, Method 106

MATERIAL

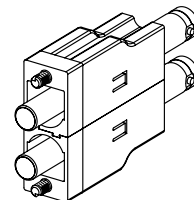
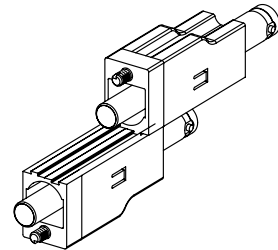
Jack sleeve and frame:	CDA 360 brass rod per ASTM B16 with electro-deposit nickel plating per QQ-N-290
Center conductors:	Phosphor bronze per ASTM B139 with electro-deposited gold plating per MIL-G-45204
Insulators:	Unreinforced polyetherimide resin rated UL94-V0 for flammability

OTHER

Interface dimensions:	Outside diameter of mating plugs must be .298" (.75 cm) with pin diameter of .048" (.12 cm)
Mounting details:	Jacks supplied with a 6-32 UNC-2A 5/16" Phillips head screws (zinc chromate plated)



SMJ-2100N

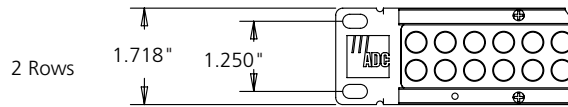
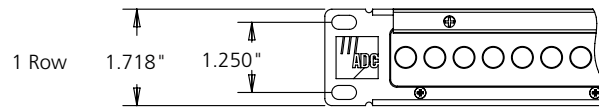




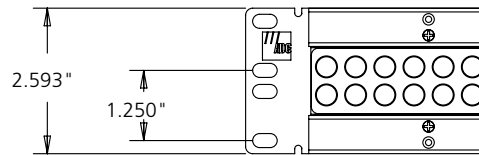
Drawings and Specifications

Video Patching Products

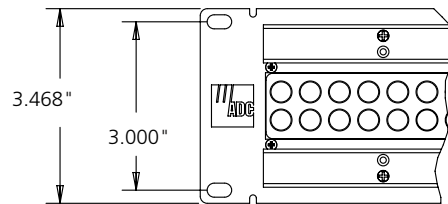
PPI and PPE Panels



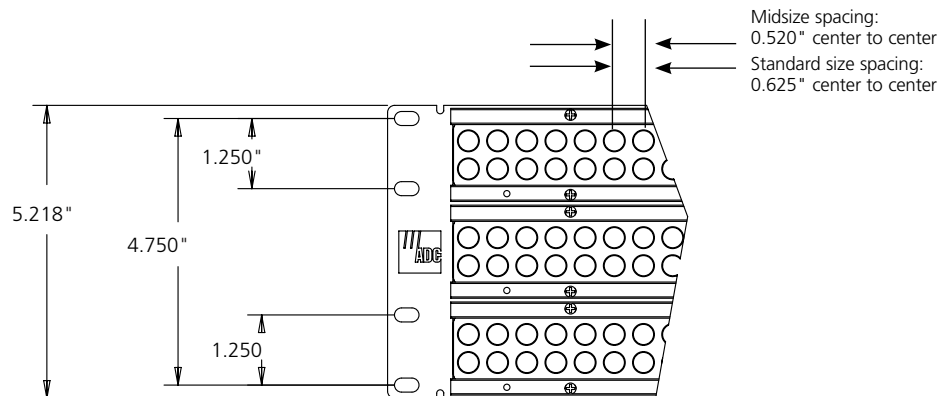
1 Rack Unit



1.5 Rack Unit



2 Rack Unit



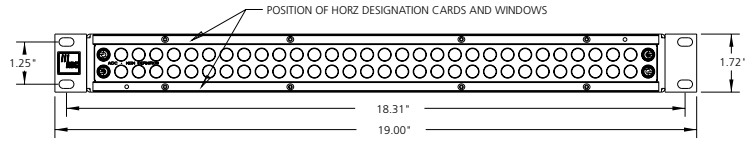
3 Rack Unit



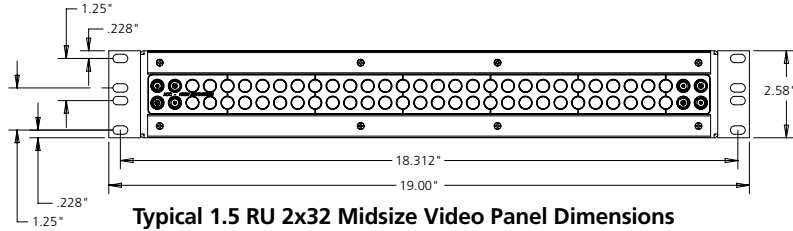
Drawings and Specifications

Video Patching Products

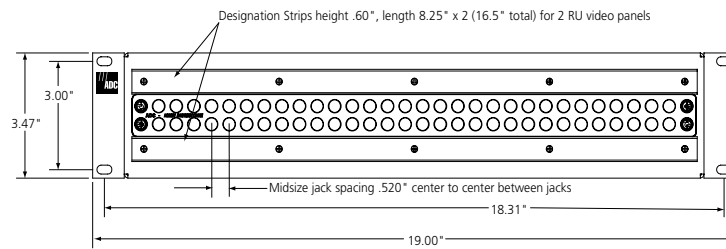
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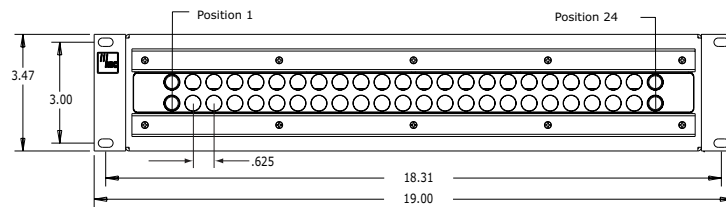
Typical 1 RU 2x32 Midsize Video Panel Dimensions



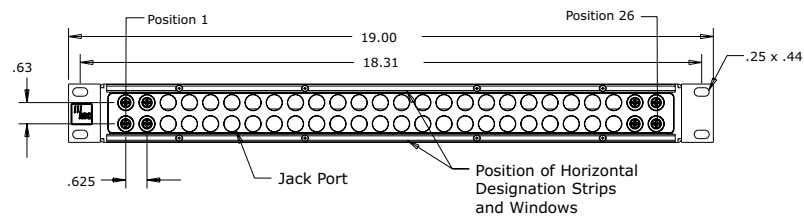
Typical 1.5 RU 2x32 Midsize Video Panel Dimensions



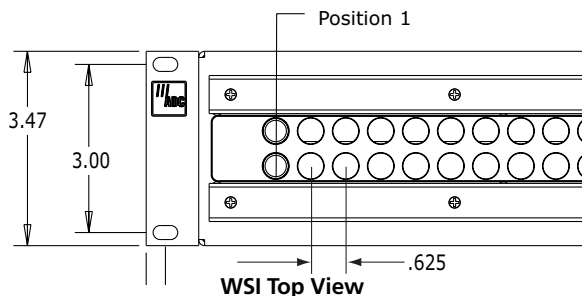
Typical 2 RU 2x32 Midsize Video Panel Dimensions



Typical 2 RU 2x24 Standard Size and MUSA Video Panel Dimensions

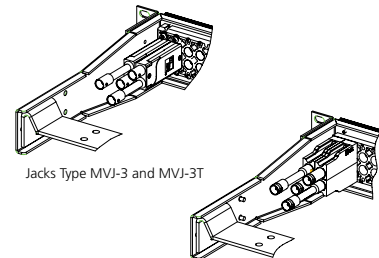


Typical 1 RU 2x26 Standard Size and MUSA Video Panel Dimensions



WSI Top View

Typical 2 RU Series 2x32 Midsize Video Panel Dimensions



Jacks Type MVJ-3 and MVJ-3T

Jacks Type CJ3014N and CJ4014N/
CJ3014N-75 and CJ4014N-75



Drawings and Specifications

Audio Patching Products

Bantam and Longframe Chassis and Module Specifications

ELECTRICAL

Contact resistance:	0.020 Ω max (initial)
	0.020 Ω max (after life cycling)
	0.10 Ω max (after salt spray)
Insulation resistance:	10,000 M Ω min (initial)
	1,000 M Ω min (after moisture resistance test)
Dielectric withstanding:	Voltage: 500 Vac
Contact rating:	Max: 100 mA + 130 Vdc; Min: -40 dBm

MECHANICAL

Mechanical shock:	Per MIL-STD-202F, Method 213B, test condition H
Vibration:	MIL-STD-1344, Method 2005, test condition I
Insertion force:	7 lbs (3.17 kg) max
Withdrawal force:	1.5 lbs (.679 kg) min
Life:	20,000 insertion/withdrawal cycles min

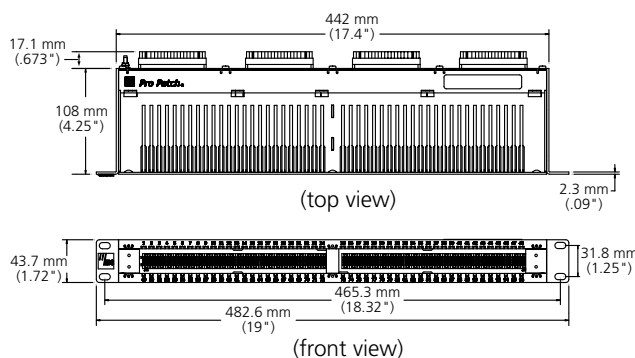
ENVIRONMENTAL

Operating temperature:	-40° to 65°C (-40° to 149°F)
Storage temperature:	-55° to 85°C (-67° to 185°F)
Thermal shock:	Per MIL-STD-202F, Method 107G, test condition A
Operating humidity:	0% to 95% (no condensation)
Storage humidity:	0% to 95% (no condensation)
Salt spray:	Per MIL-STD-202F, Method 101D
Moisture resistance:	Per MIL-STD-202F, Method 106E

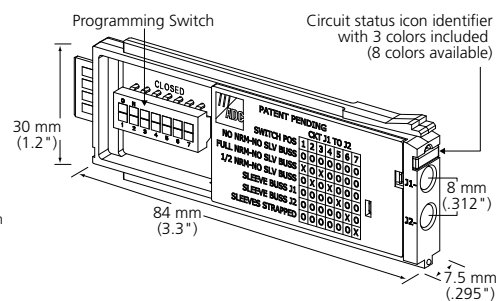
MATERIALS

Chassis frame:	Steel, zinc plated with electroless nickel plating
Jack frame:	Unreinforced polyetherimide resin rated UL 94-V0 for flammability
Springs:	Nickel-silver
Contacts:	WECO No. 1 gold crossbar alloy welded to springs
PC boards:	FR-4
Sockets:	Phosper bronze
Switches:	30 micro inches gold on contact
	Copper alloy
	10 micro inches min gold on contact

Bantam Chassis and Jack Dimensions



Typical 1 RU 48-Position Panel



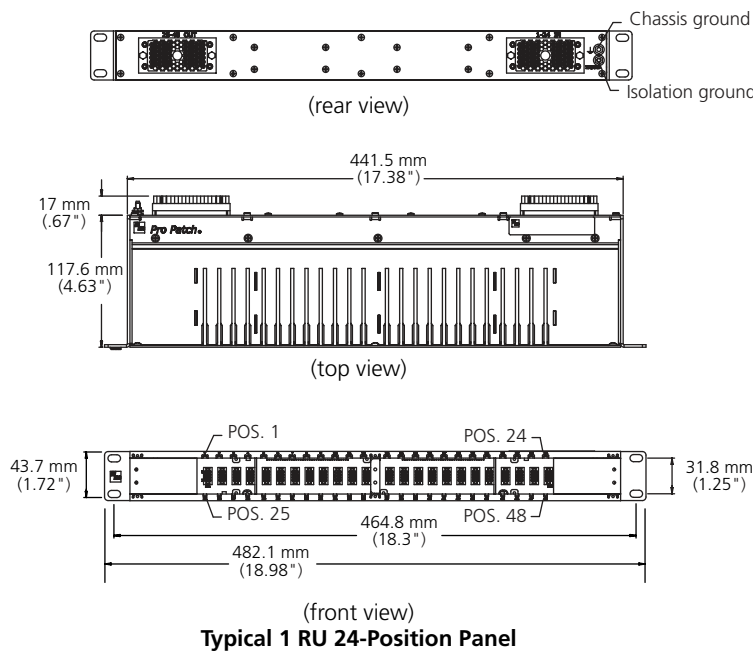
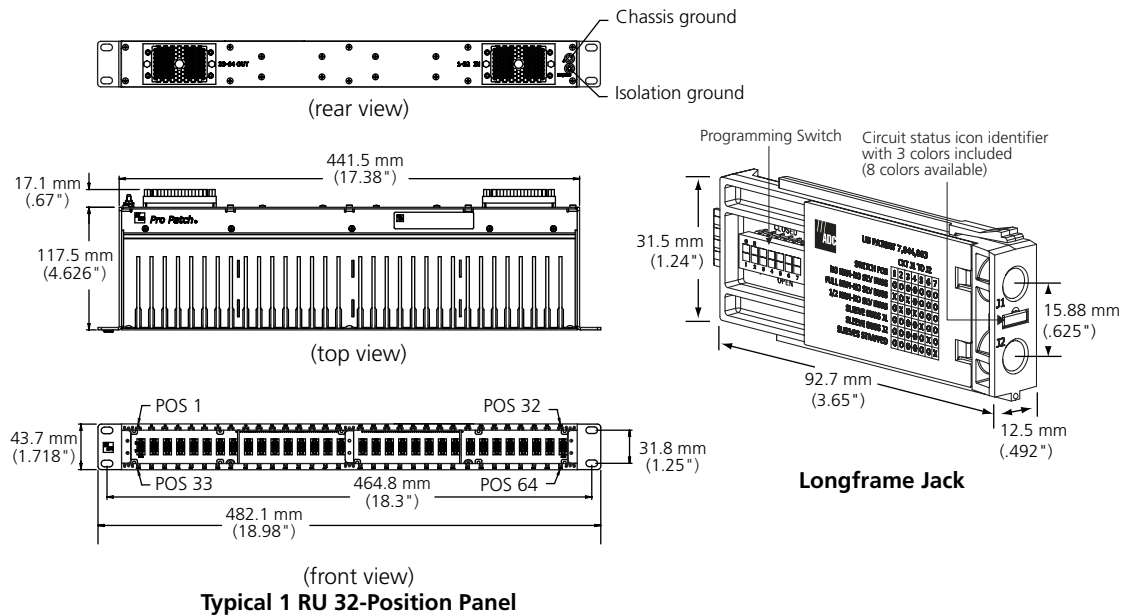
Bantam Jack



Drawings and Specifications

Audio Patching Products

Longframe Chassis and Jack Dimensions

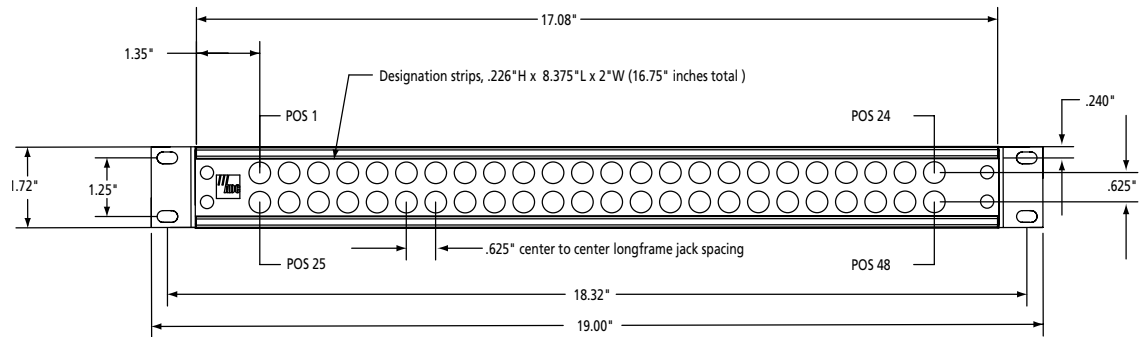




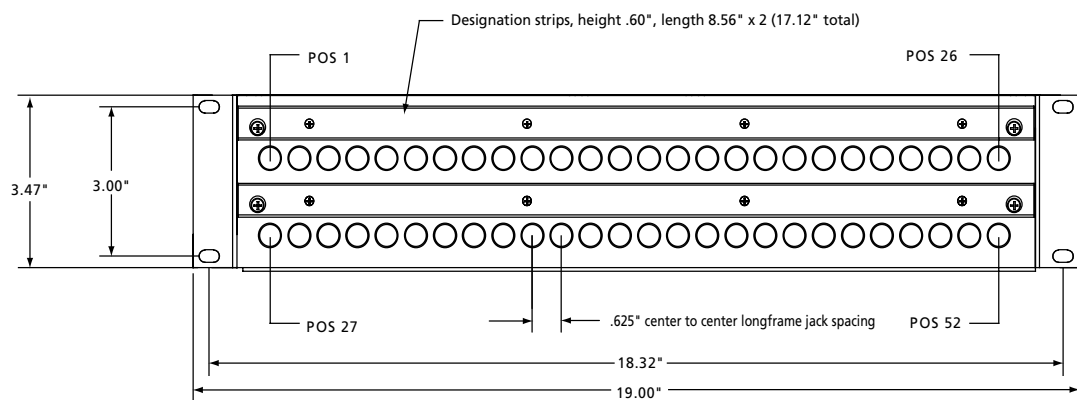
Drawings and Specifications

Audio Patching Products

This section presents drawings and specifications for typical products. For additional information or for information about products not presented here, please see the ADC web site at www.adc.com or consult our Technical Assistance Center.



Typical 1 RU 2x24 Longframe Audio Panel Dimensions



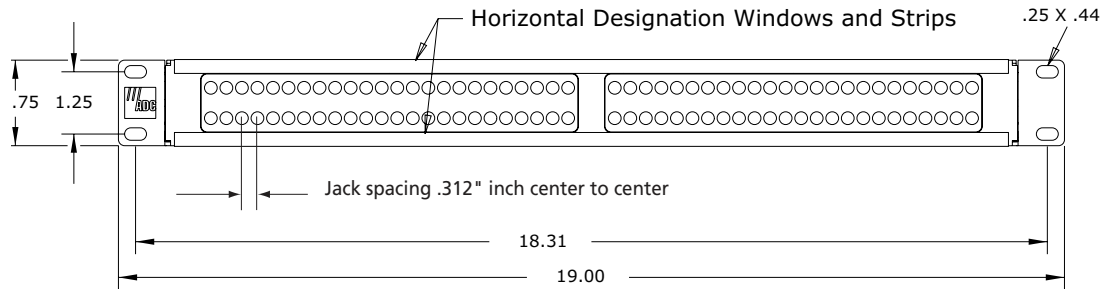
Typical 2 RU 2x26 Longframe Audio Panel Dimensions



Drawings and Specifications

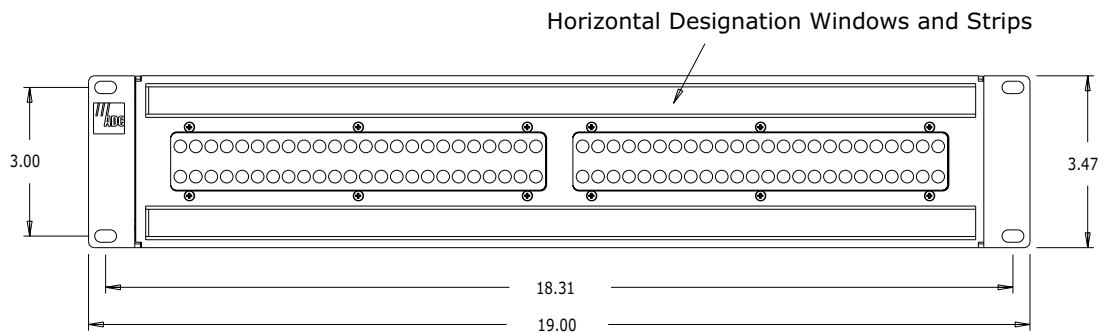
Audio Patching Products

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Front View

Typical 1 RU 2x48 Regular Spaced Bantam Audio Panel Dimensions



Front View

Typical 2 RU 2x48 Regular Spaced Bantam Audio Panel Dimensions



Drawings and Specifications

Audio Patching Products

PJ339 and PJ482 Longframe Audio Jack Specifications

ELECTRICAL

Contact Resistance:	0.020 Ω maximum (initial) 0.020 Ω maximum (after life cycling) 0.10 Ω maximum (after salt spray)
Insulation Resistance:	10,000 meg Ω s minimum (initial) 1,000 meg Ω s minimum (after moisture resistance test)
Dielectric Withstanding:	Voltage: 500 Vac
Contact Rating:	Maximum: 100 mA + 130 Vdc; Minimum: -40 dBm

MECHANICAL

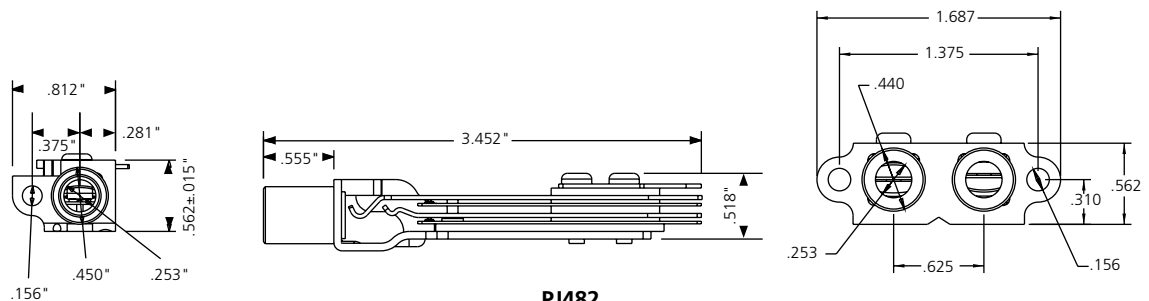
Mechanical Shock:	Per MIL-STD-202F, Method 213B, test condition H
Vibration:	MIL-STD-1344, Method 2005, test condition I
Insertion Force:	7 lbs. (3.17 kg) maximum
Withdrawal Force:	1.5 lbs. (.679 kg) minimum
Life:	20,000 insertion/withdrawal cycles minimum

ENVIRONMENTAL

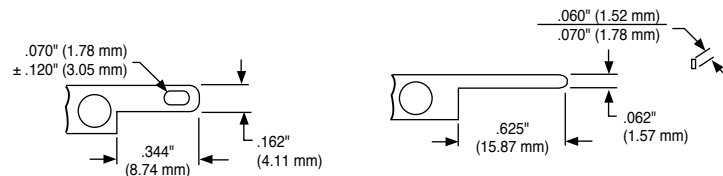
Operating Temp:	-40°C to 65°C
Storage Temp:	-55°C to 85°C
Thermal Shock:	Per MIL-STD-202F, Method 107G, test condition A
Operating Humidity:	0% to 95% (no condensation)
Storage Humidity:	0% to 95% (no condensation)
Salt Spray:	Per MIL-STD-202F, Method 101D
Moisture Resistance:	Per MIL-STD-202F, Method 106E

MATERIALS

Frame:	Steel, zinc plated with electroless nickel plating
Sleeve:	Brass, nickel plated
Insulators:	Unreinforced polyetherimide resin rated UL 94-V0 for flammability
Springs:	Nickel-silver
Contacts:	WECO No. 1 gold crossbar alloy welded to springs
Solder Lugs:	Hot tin dipped



PJ482



Single Longframe Audio Jack



Drawings and Specifications

Audio Patching Products

PJ839 and PJ889 Bantam Audio Jack Specifications

ELECTRICAL

Contact Resistance:	0.020 Ω maximum (initial) 0.020 Ω maximum (after life cycling) 0.10 Ω maximum (after salt spray)
Insulation Resistance:	10,000 meg Ω s minimum (initial) 1,000 meg Ω s minimum (after moisture resistance test)
Dielectric Withstanding:	
Voltage:	500V RMS
Contact Rating:	Maximum: 100 mA $\pm$ 130 Vdc; Minimum: -40 dBm

MECHANICAL

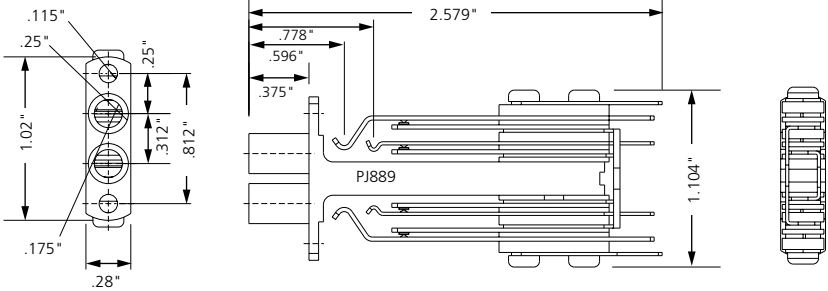
Mechanical Shock:	Per MIL-STD-202F, Method 213B, test condition H
Vibration:	MIL-STD-1344, Method 2005, test condition I
Insertion Force:	7 lbs. (3.17 kg) maximum
Withdrawal Force:	1.5 lbs. (.679 Kg) minimum
Life:	20,000 insertion/withdrawal cycles minimum

ENVIRONMENTAL

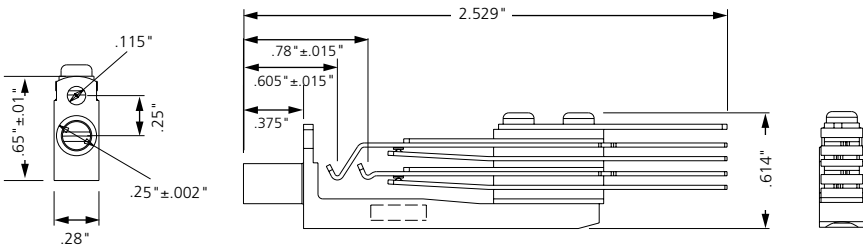
Operating Temp:	-40°C to 65°C
Storage Temp:	-55°C to 85°C
Thermal Shock:	Per MIL-STD-202F, Method 107G, test condition A
Operating Humidity:	0% to 95%, non-condensing
Storage Humidity:	0% to 95%, non-condensing
Salt Spray:	Per MIL-STD-202F, Method 101D
Moisture Resistance:	Per MIL-STD-202F, Method 106E

MATERIALS

Frame:	Zinc die-cast zinc plated with electroless nickel plating
Insulators:	Unreinforced polyetherimide resin rated UL 94-V0 for flammability
Springs:	Nickel-Silver alloy
Contacts:	WECO No. 1 gold crossbar alloy welded to springs



Three-Conductor Dual Bantam Jack



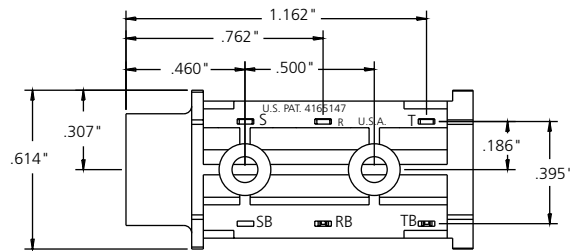
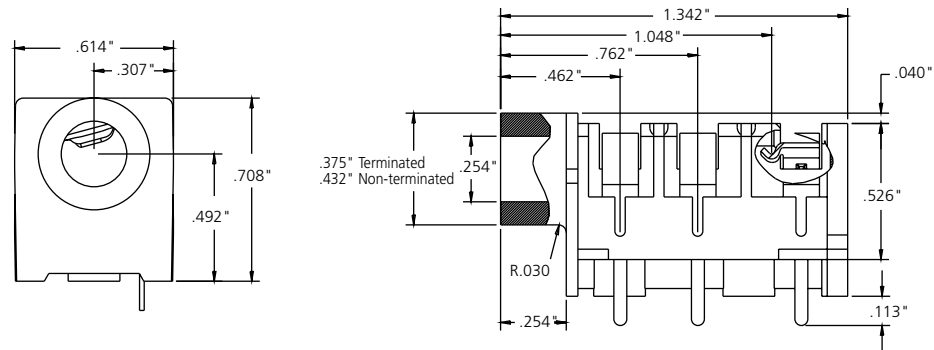
Three-Conductor Single Bantam Jack



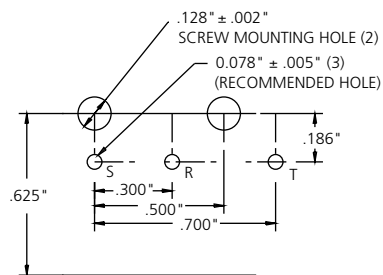
Drawings and Specifications

Audio Patching Products

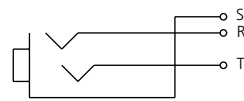
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AJ238/AJ339

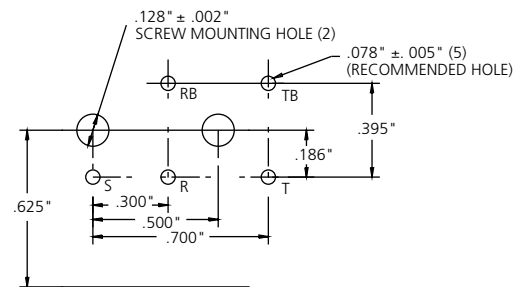


PC BOARD DRILL GUIDE
AS SEEN FROM COMPONENT
SIDE OF BOARD

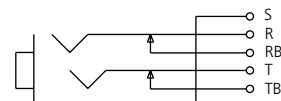


REFERENCE SCHEMATIC

AJ238



PC BOARD DRILL GUIDE
AS SEEN FROM COMPONENT
SIDE OF BOARD



REFERENCE SCHEMATIC

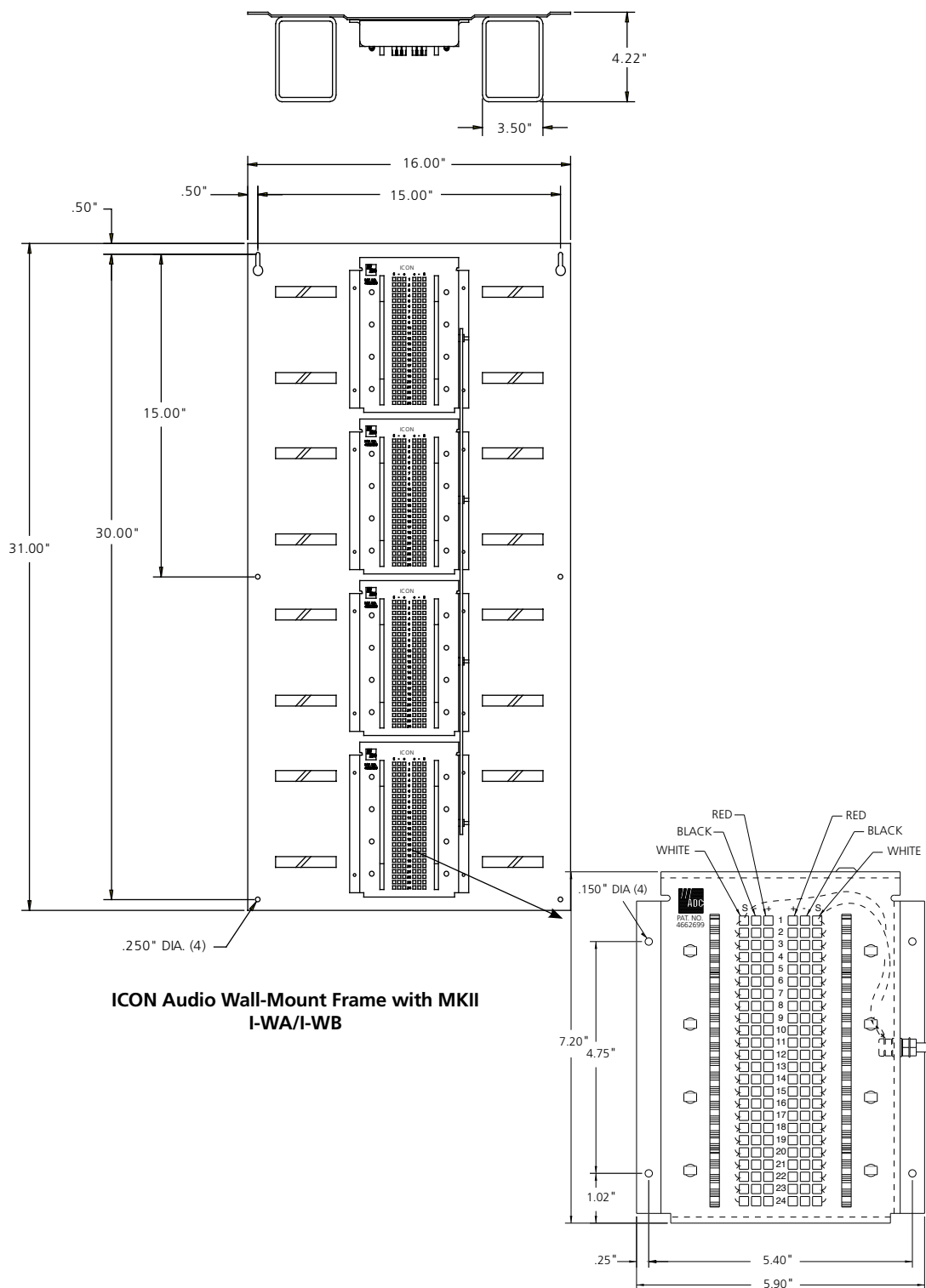
AJ339



Drawings and Specifications

ICON® Audio Products

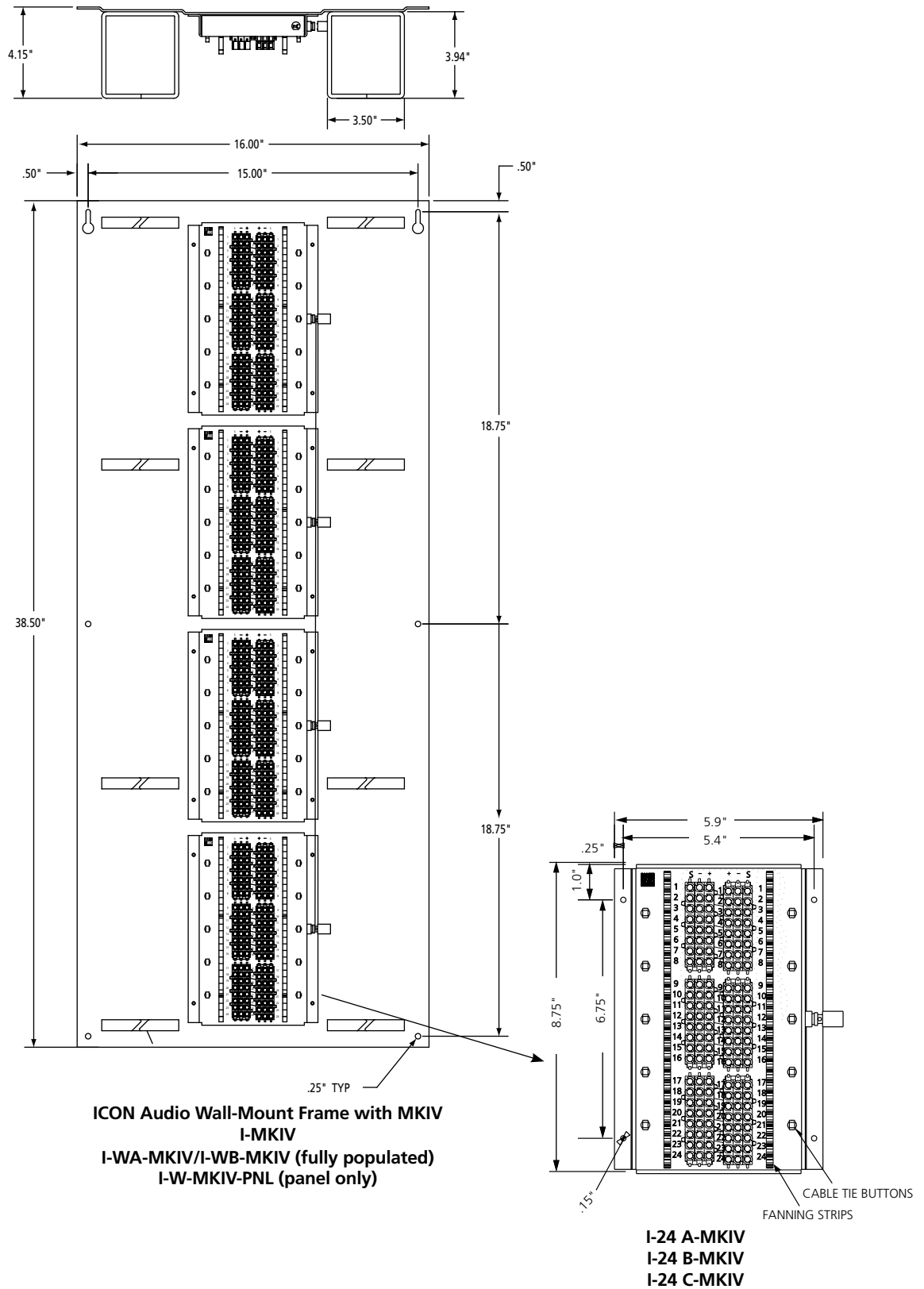
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I-24 A
I-24 B
I-24 C

Drawings and Specifications

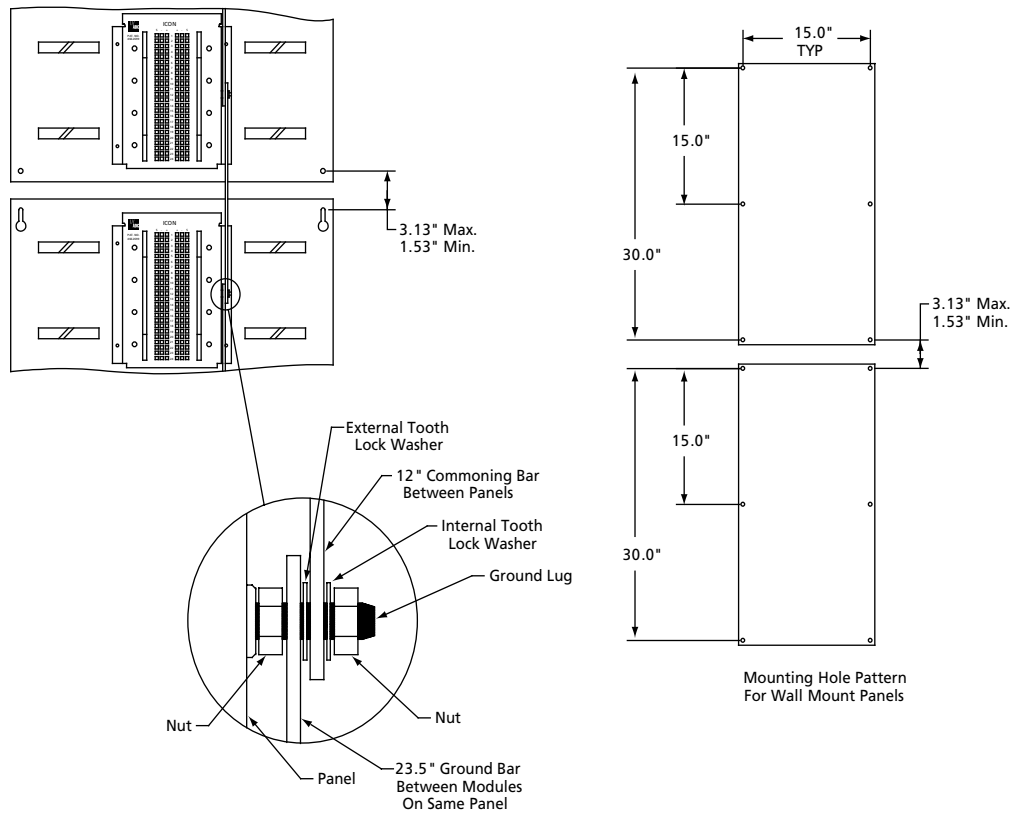
ICON® Audio Products



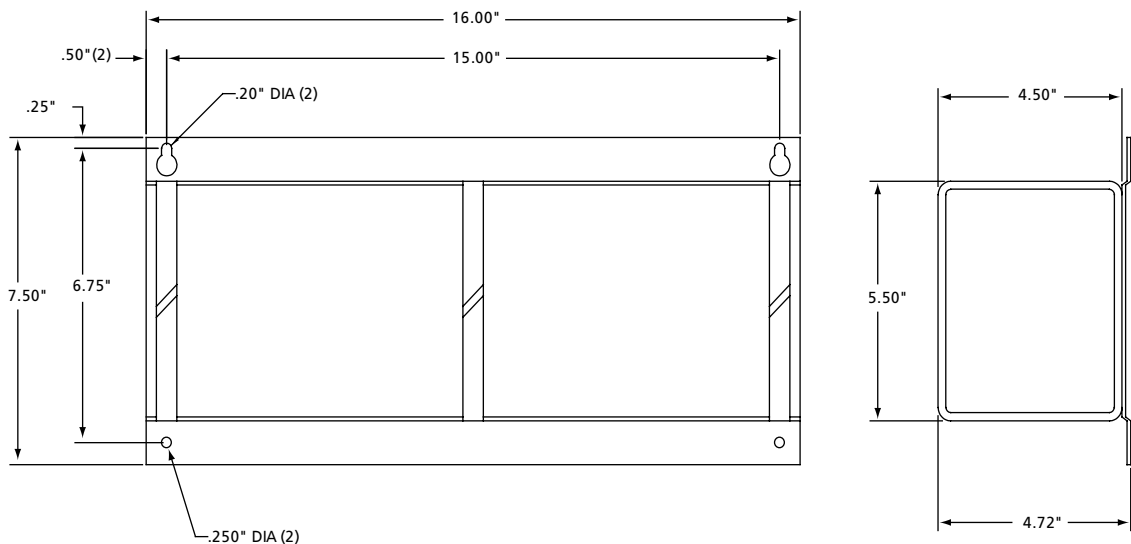


Drawings and Specifications

ICON® Audio Products



I-WA/I-WB Mounting Details



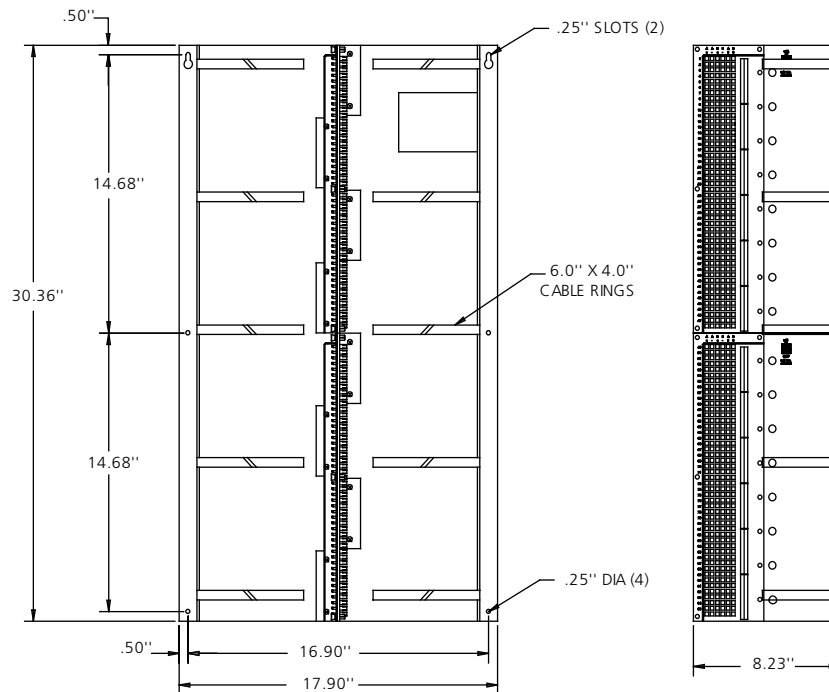
ICON I-WFP Fanning Panel Dimensions



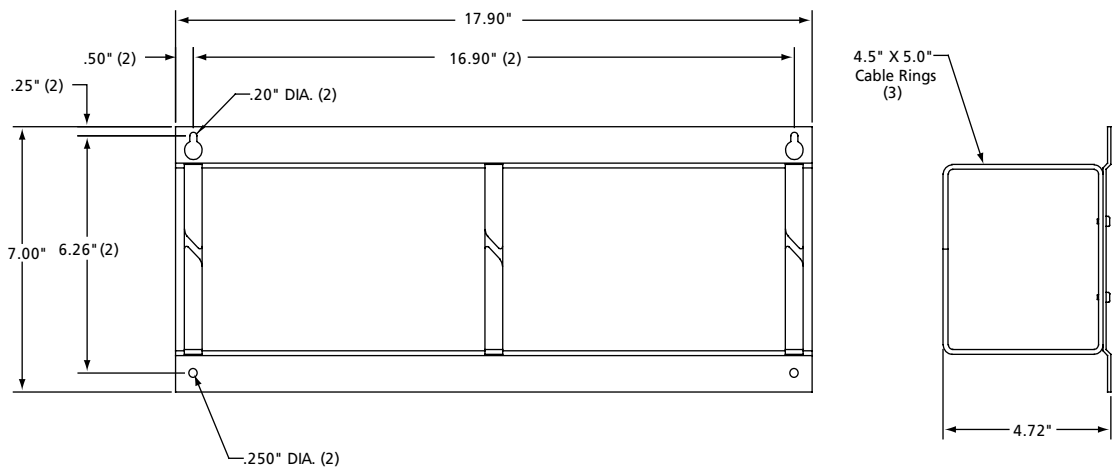
Drawings and Specifications

ICON® Audio Products

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ICON I-WS-MKII Wall-Mount Audio Panel Dimensions



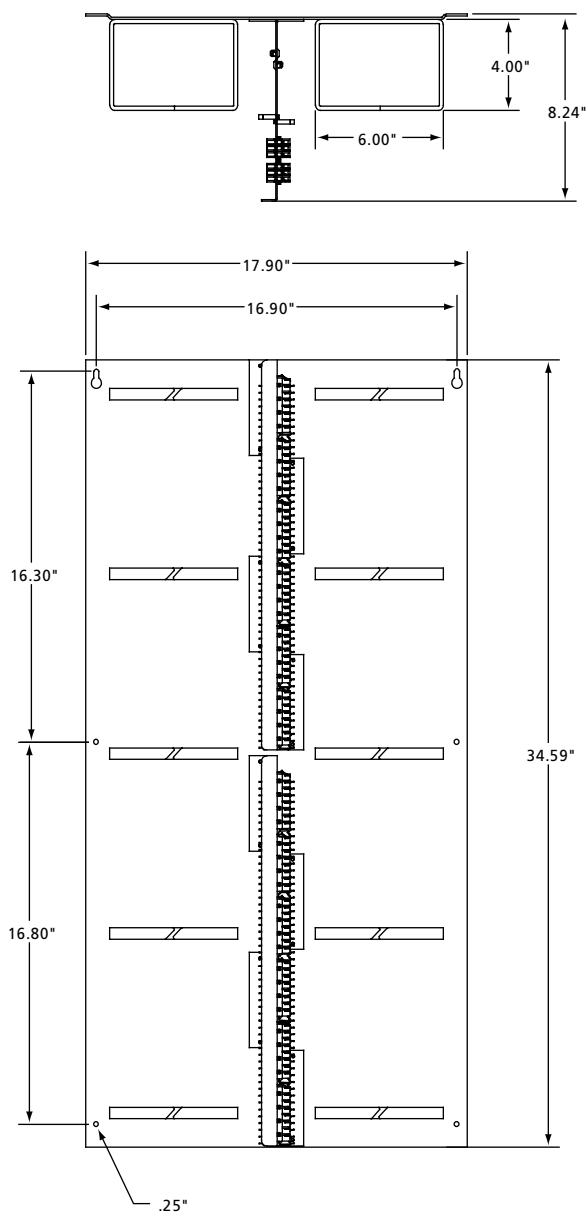
ICON I-WSET Express Trough Dimensions



Drawings and Specifications

ICON® Audio Products

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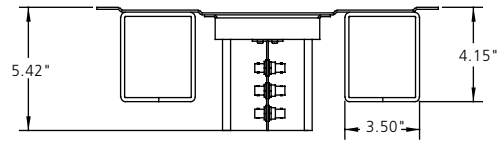
ICON I-WS-MKIV Wall-Mount Audio Frame Dimensions



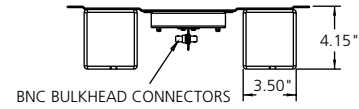
Drawings and Specifications

ICON® Video Wall-Mount Panels

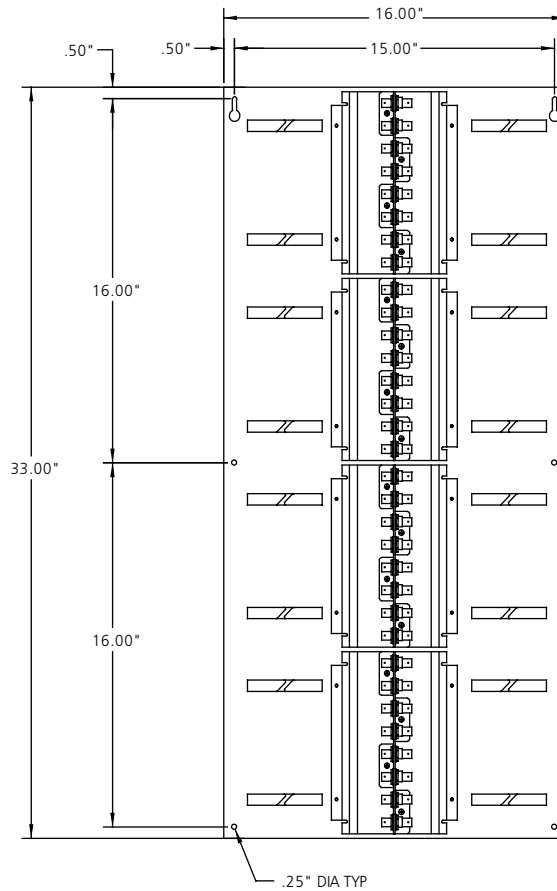
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VIW-424



VIW-408

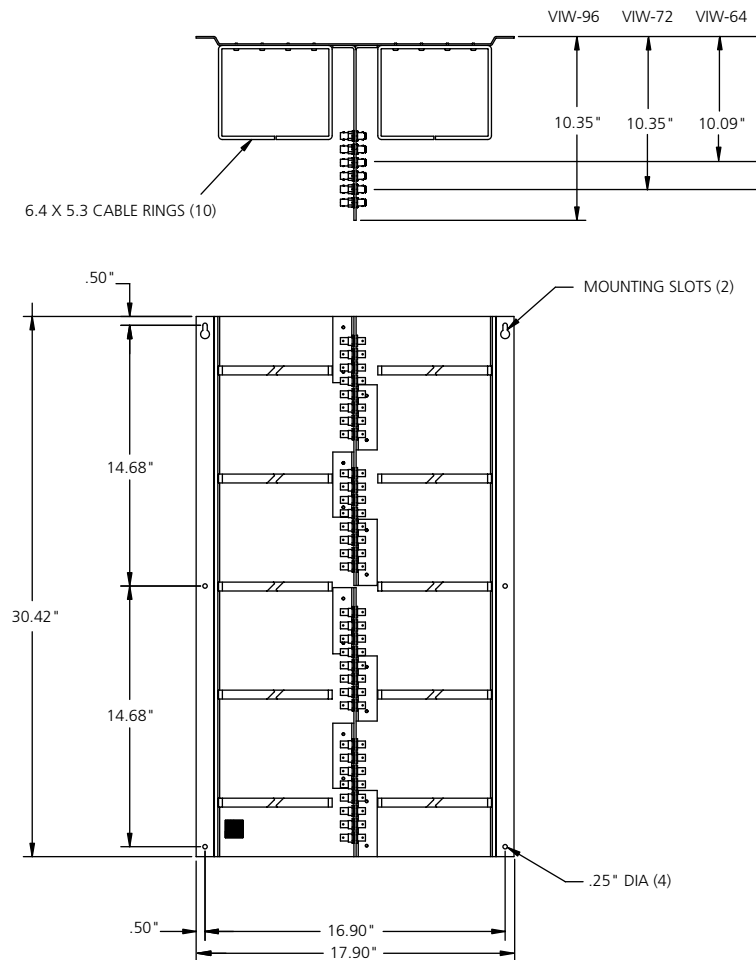


Video ICON VIW-424/408 Wall-Mount Panel Dimensions

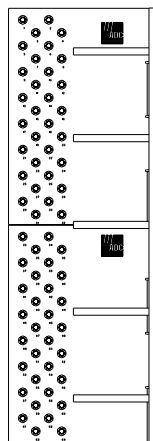


Drawings and Specifications

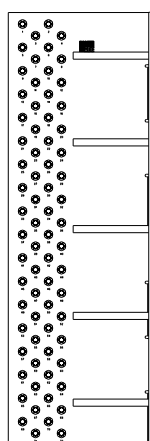
ICON® Video Wall-Mount Panels



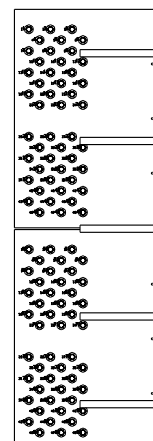
Video ICON VIW-64/72/96 Wall-Mount Panel Dimensions



VIW-64



VIW-72



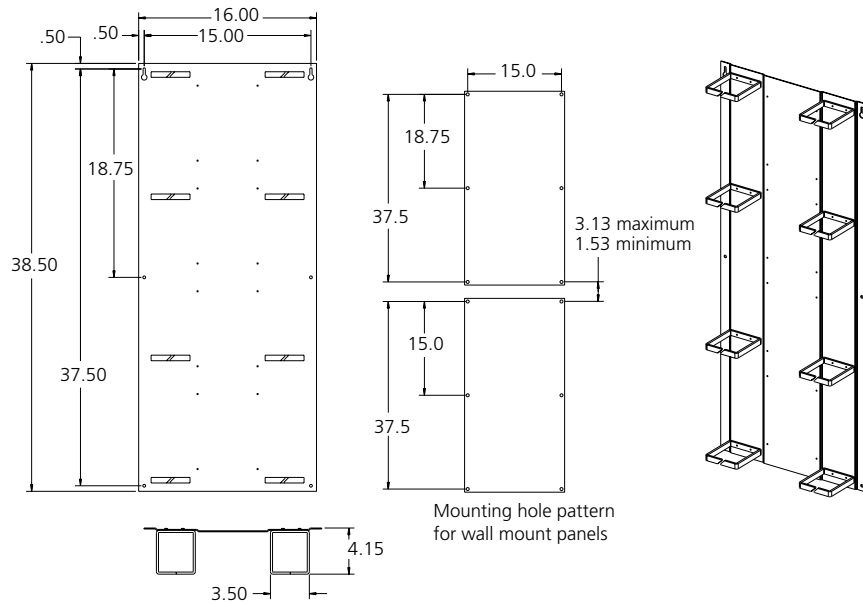
VIW-96



Drawings and Specifications

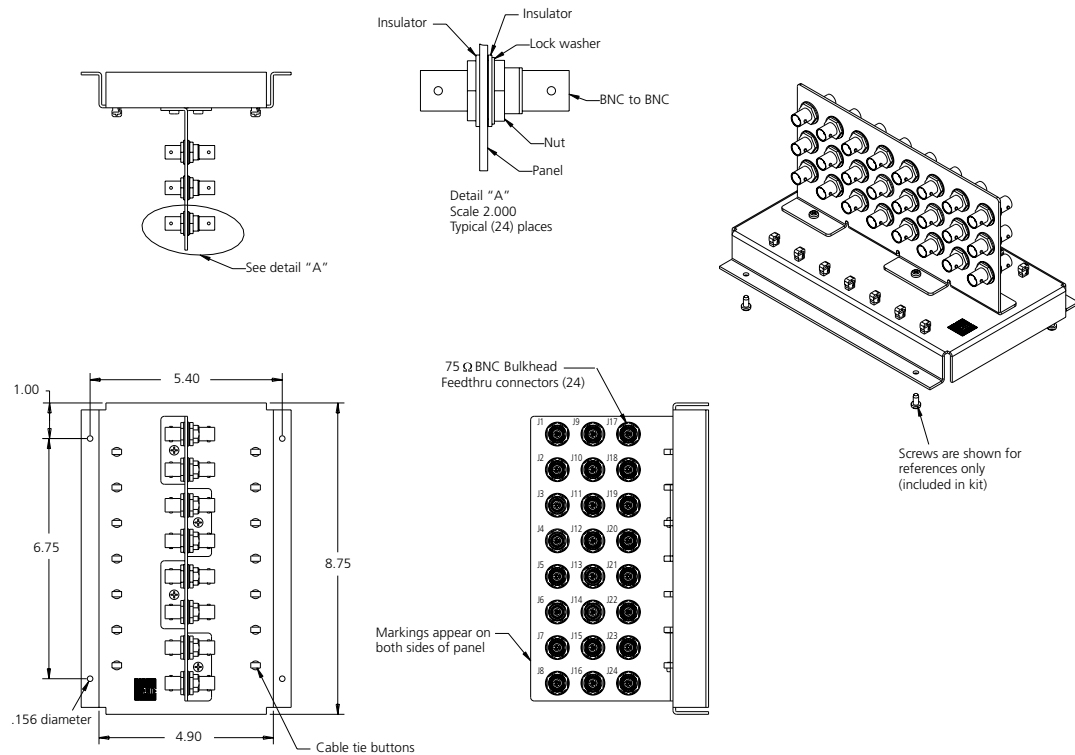
ICON® I-W Modular Wall-Mount System

Modular Wall-Mount Panel



I-W-MKIV-PNL

BNC and BNC to F Wall-Mount Block

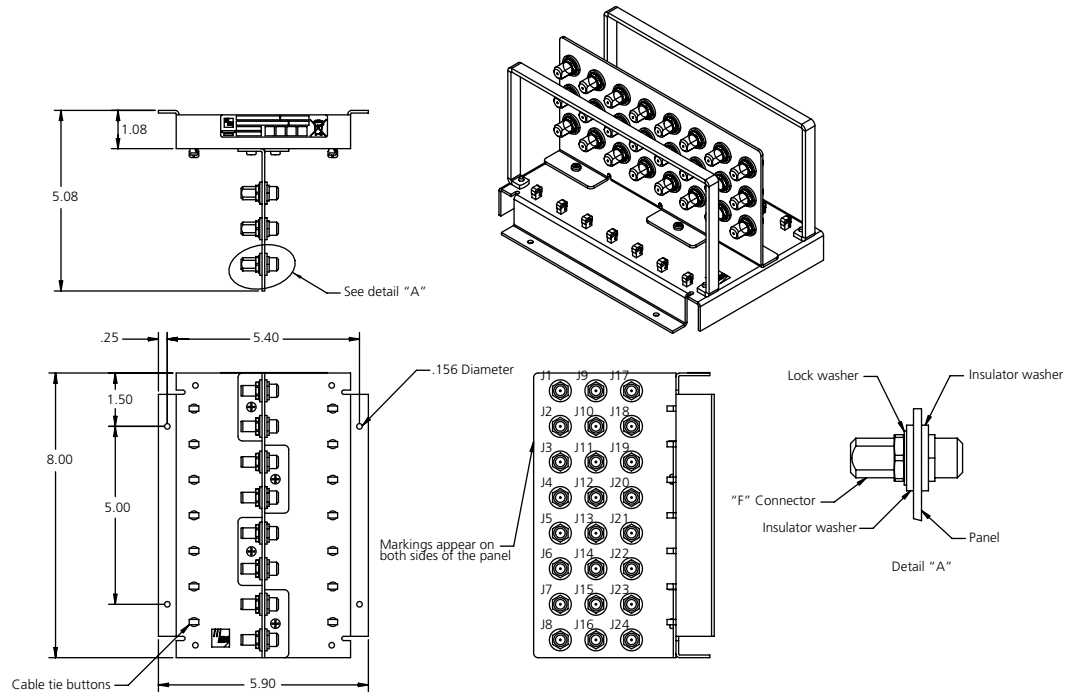


VIW-24



Drawings and Specifications **ICON® I-W Modular Wall-Mount System**

F Wall-Mount Block

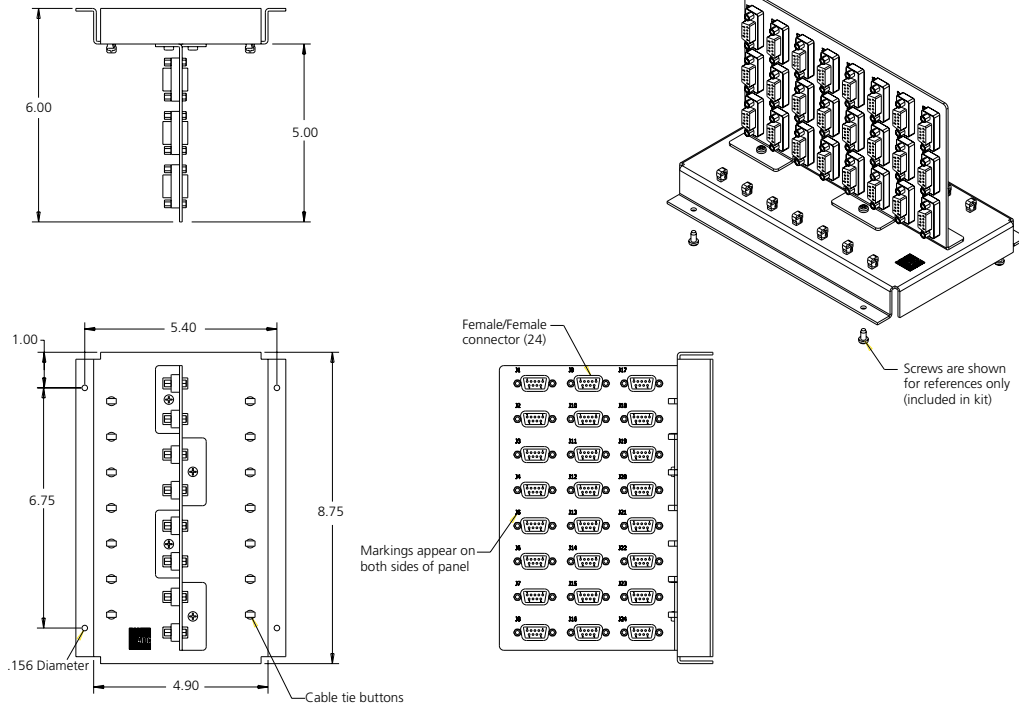




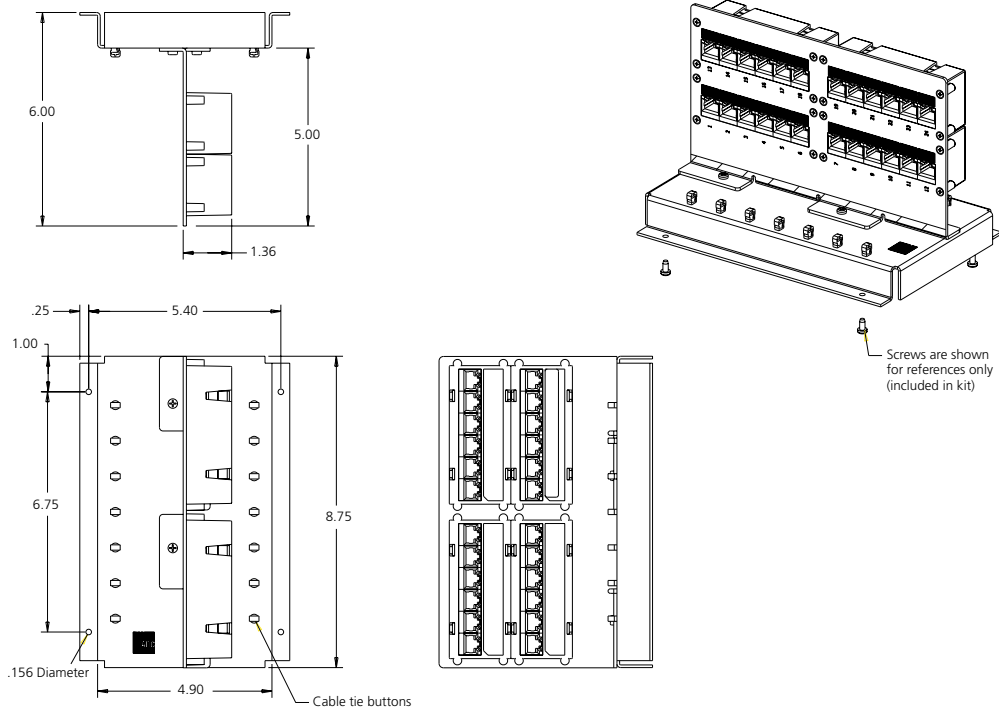
Drawings and Specifications

ICON® I-W Modular Wall-Mount System

DB-9 Wall-Mount Block



RJ Wall-Mount Block

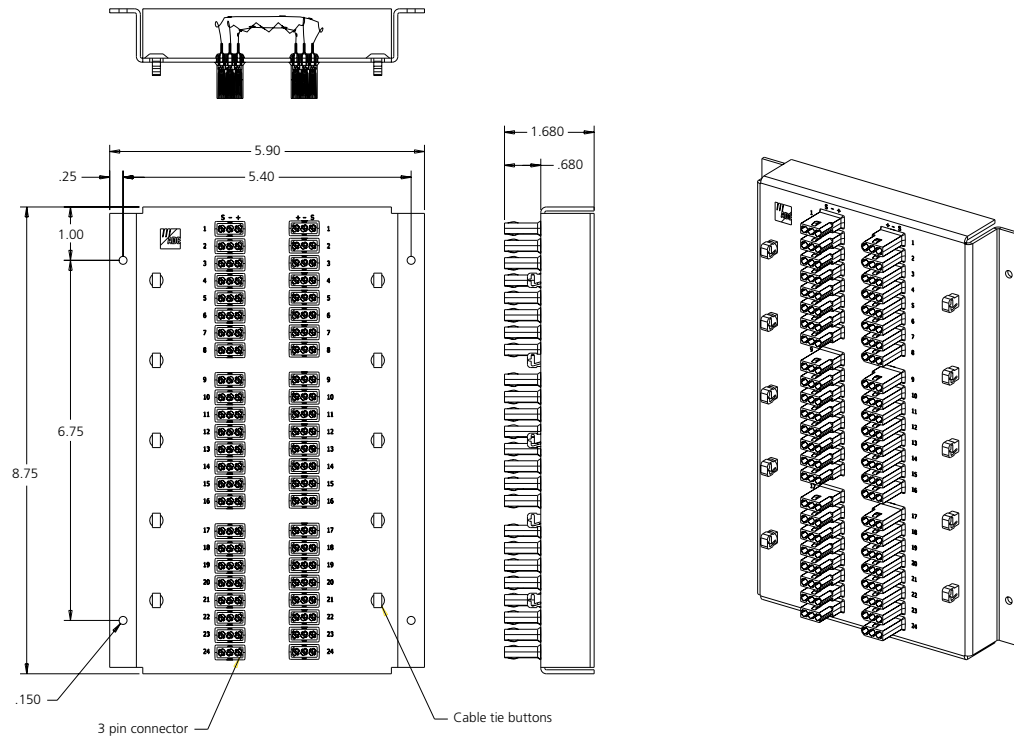




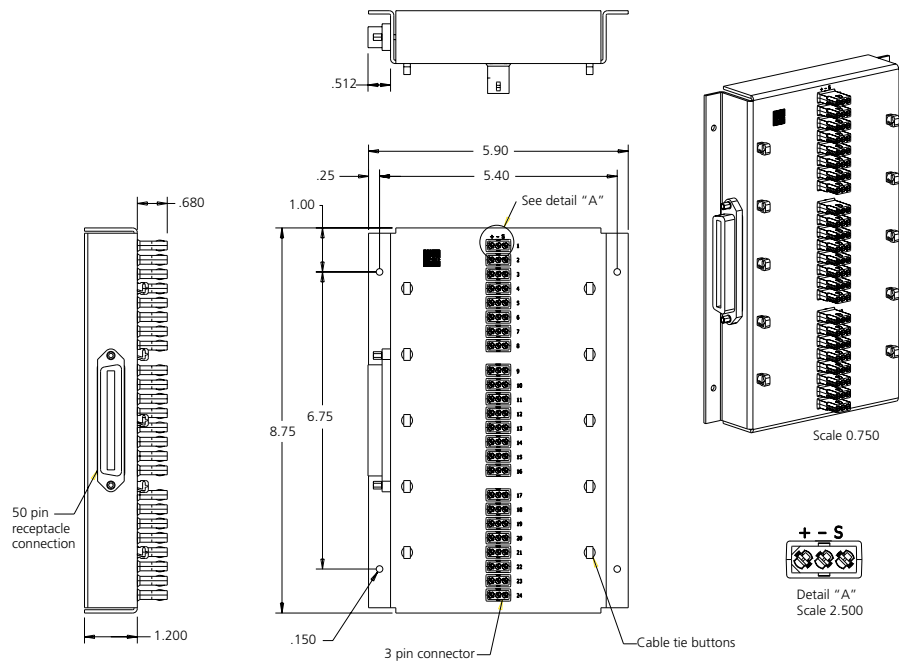
Drawings and Specifications

ICON® I-W Modular Wall-Mount System

E3 Wall-Mount Block



E3-AMPWall-Mount Block

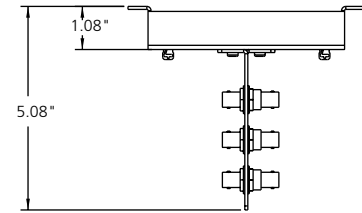
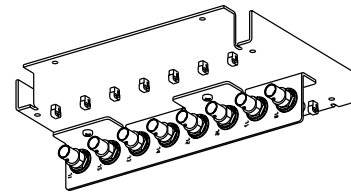
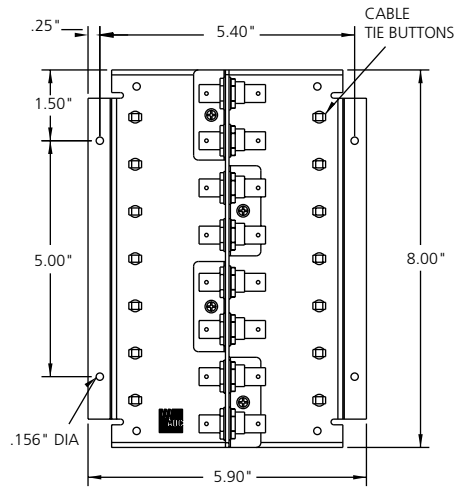




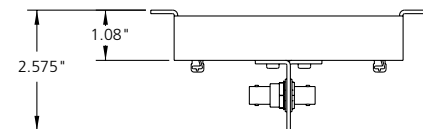
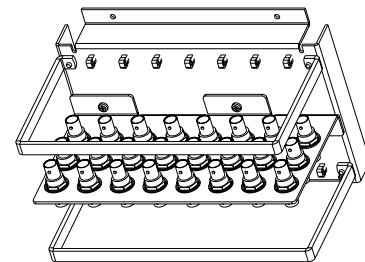
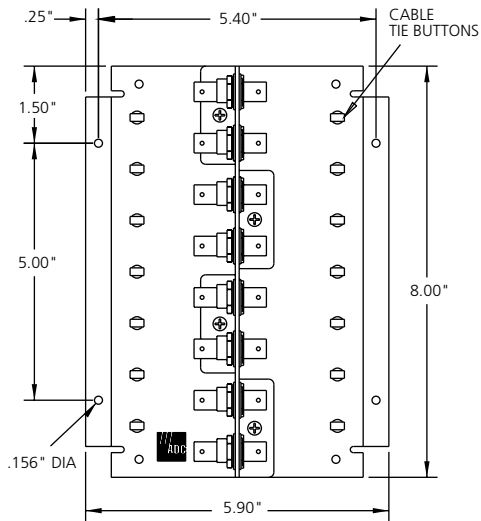
Drawings and Specifications

ICON® Video Wall-Mount Panels

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VIW-8



VIW-24



Drawings and Specifications

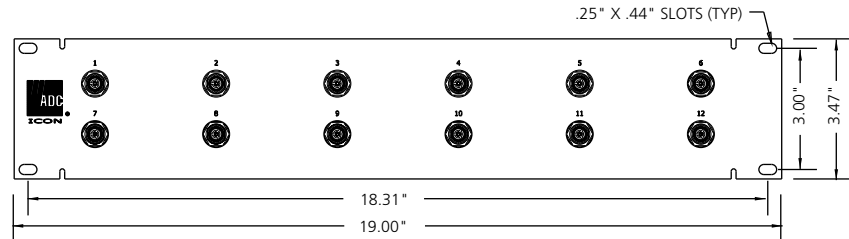
ICON® Video Bulkhead Panels

ADC offers a wide variety of bulkhead panels featuring our exclusive impedance matched true 75 Ω bulkhead connector.

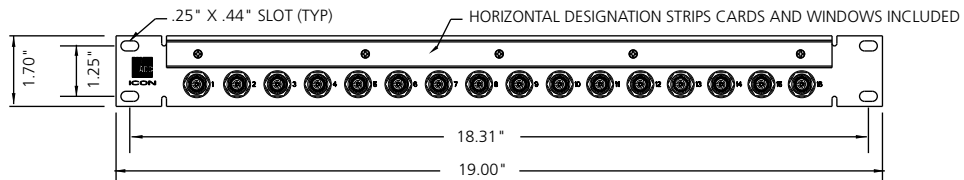
Features:

- Rack-mount versions in 19" (48.26 cm) or 23" (58.42 cm) 1 RU or 2 RU heights
- Models from 12 to 48 circuits with or without cable trays
- Wall-mount systems from 8 to 96 circuits

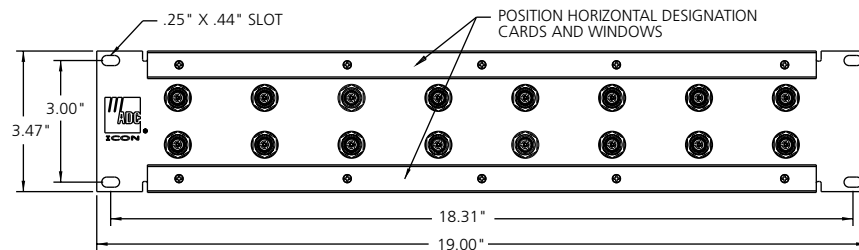
19" (48.26 cm) Panels



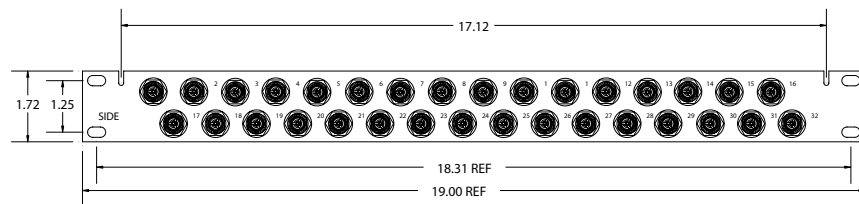
12-Circuit 2 RU BNC Bulkhead Panel
VI-12-W



16-Circuit 1 RU BNC Bulkhead Panel
VI-116-DES-W



16-Circuit 2 RU BNC Bulkhead Panel
VI-16-PTY



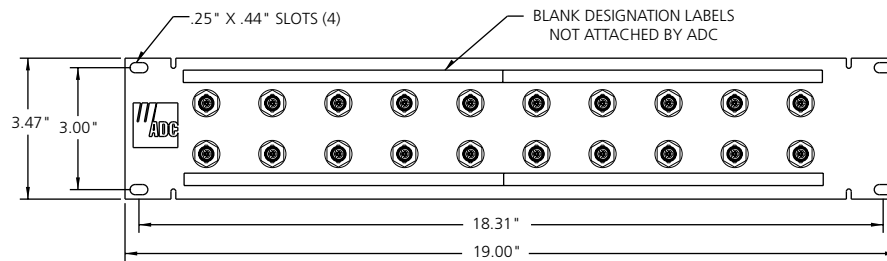
32-Circuit 1 RU BNC Bulkhead Panel
VI-132-BK



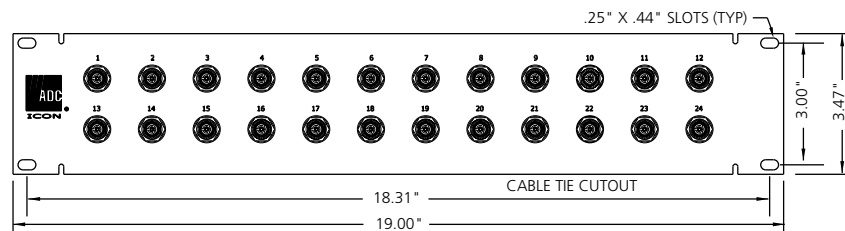
Drawings and Specifications

ICON® Video Bulkhead Panels

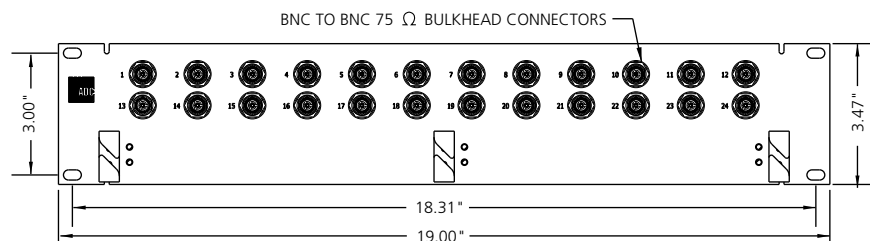
19" (48.26 cm) Panels



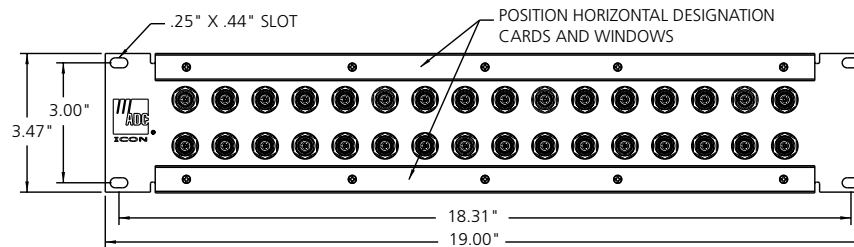
VI-20-PTY



VI-24-PTY



VI-24VHR-BK



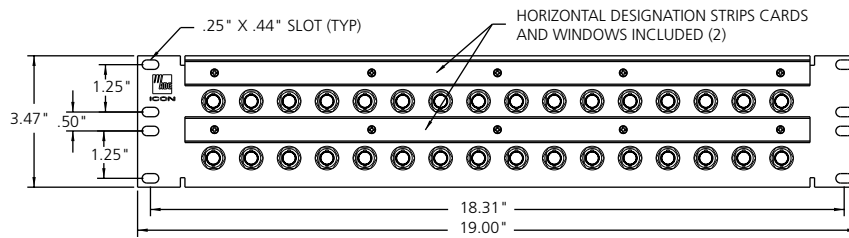
VI-32-BK



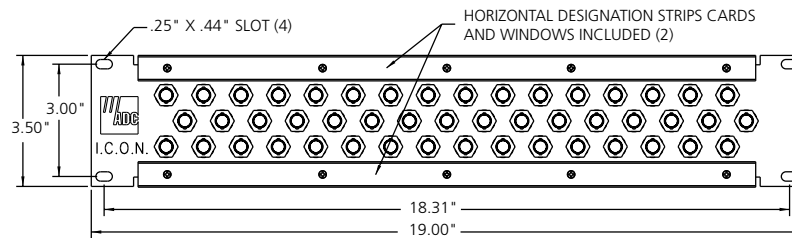
Drawings and Specifications

ICON® Video Bulkhead Panels

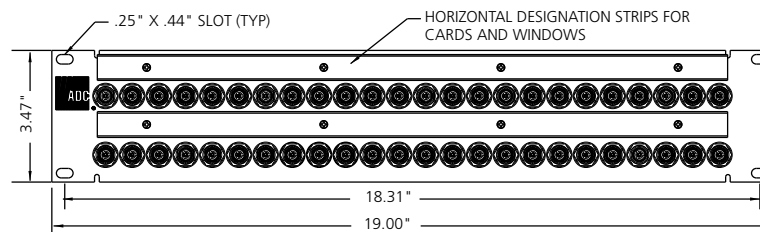
19" (48.26 cm) Panels



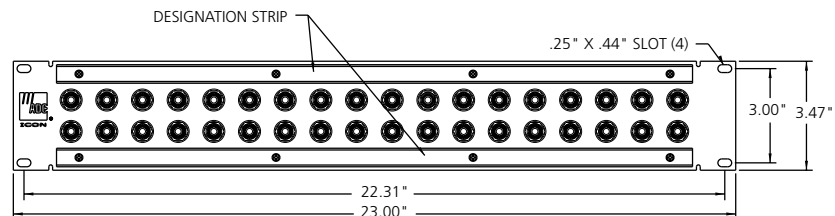
VI-32-DES-W



VI-48-BK



VI-48-19-TTDES-BK



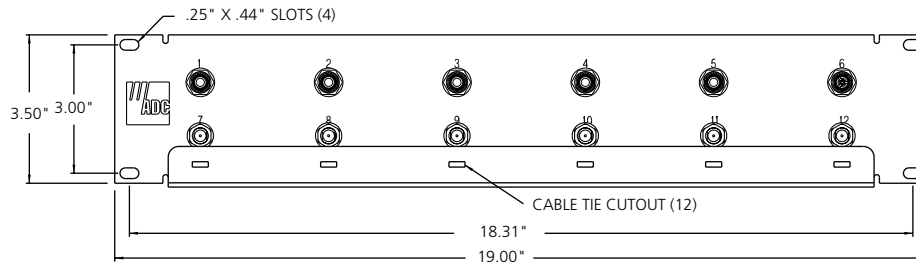
VI-36-23-DES-PTY



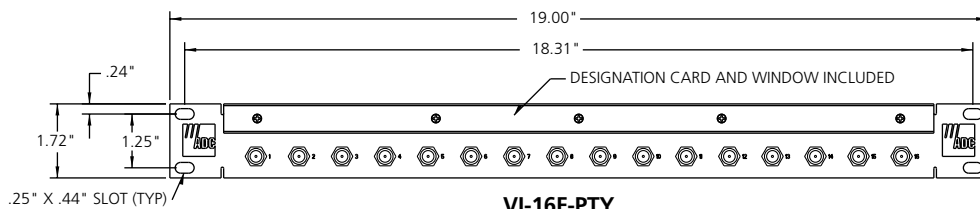
Drawings and Specifications

ICON® Video F Connector Bulkhead Panels

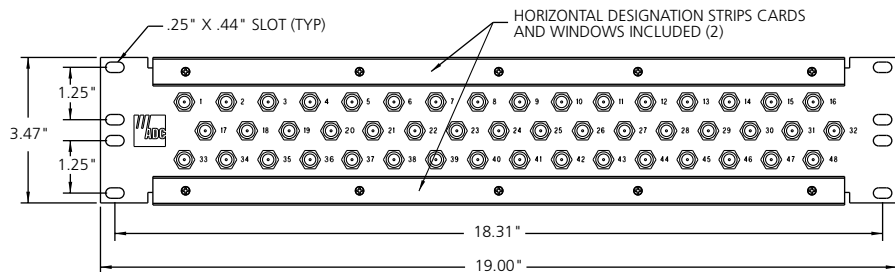
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VI-12-BNC-F-W



VI-16F-PTY



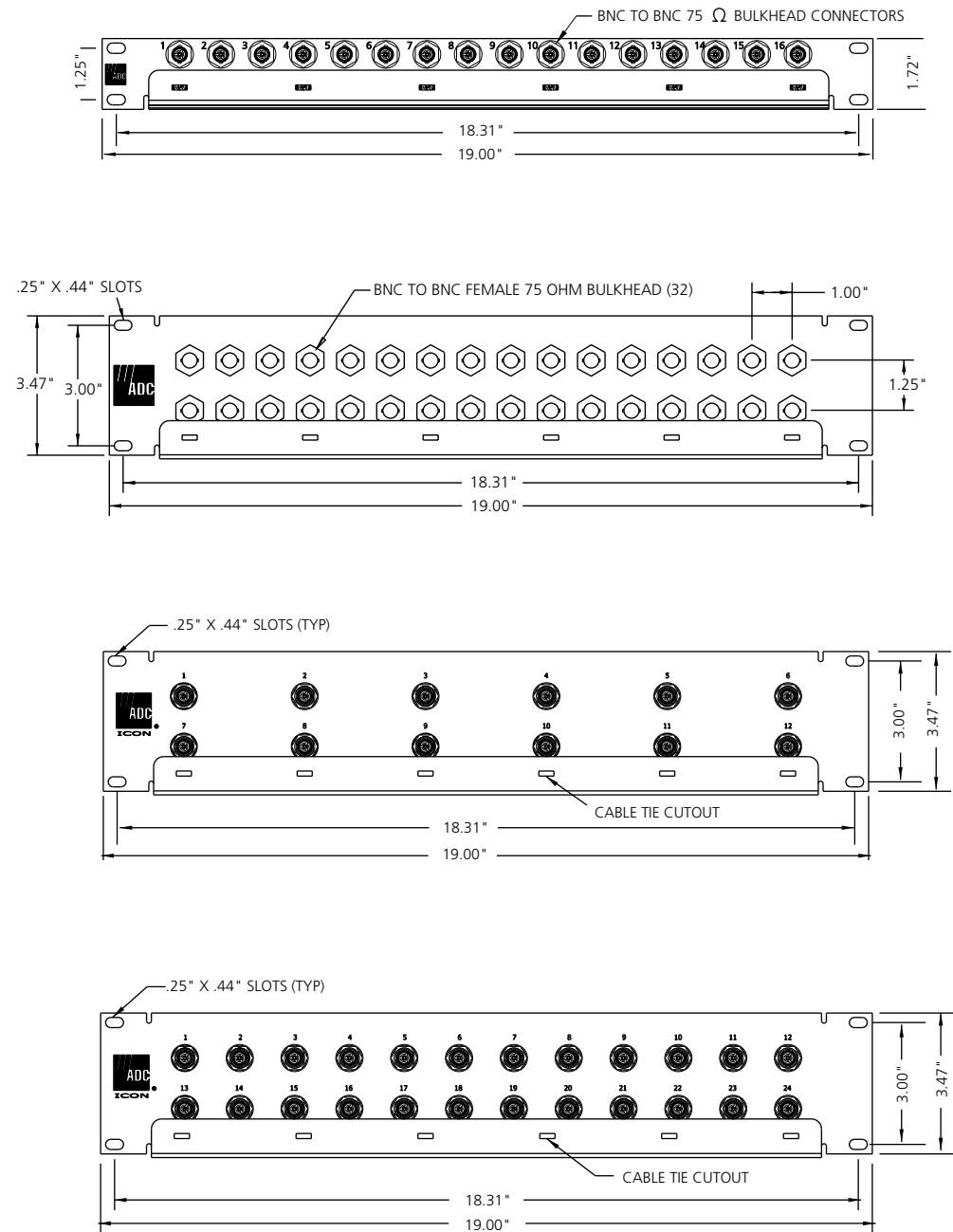
VI-48F-PTY



Drawings and Specifications

ICON® Video Bulkhead Panels

19" (48.26 cm) Panels with Cable Tray

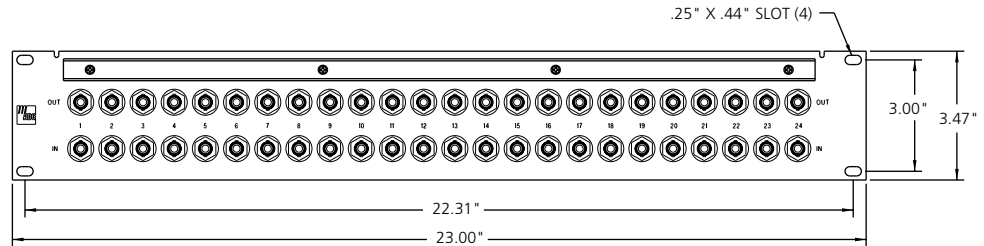




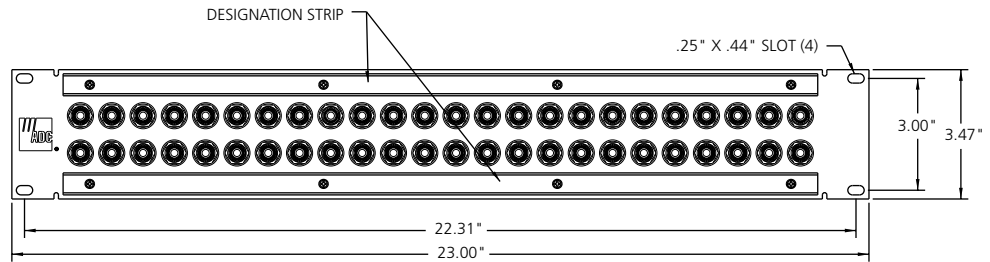
Drawings and Specifications

ICON® Video Bulkhead Panels

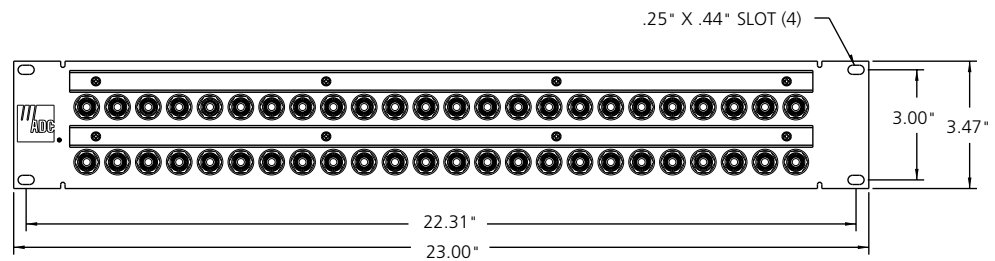
23" (58.42 cm) Panels



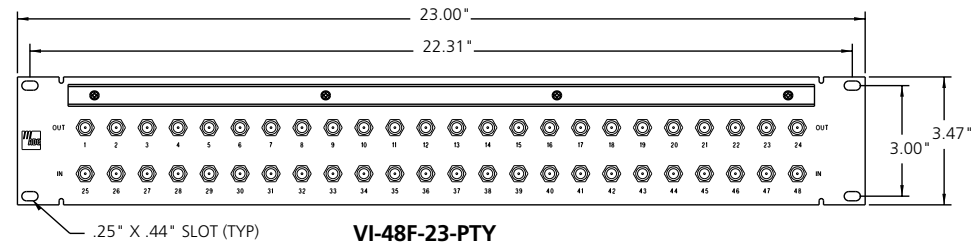
BNC-BLK-48-CL



VI-48-23-DES-BK



VI-48-23-TT-DES-BK



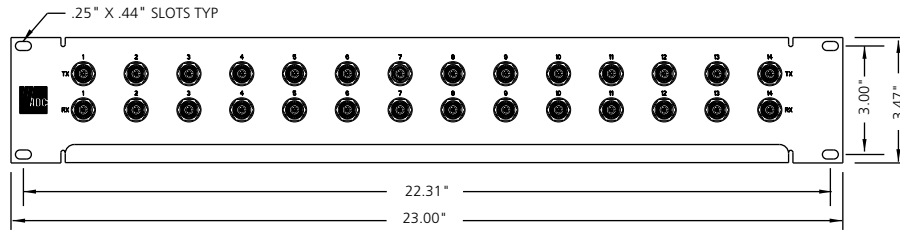
VI-48F-23-PTY



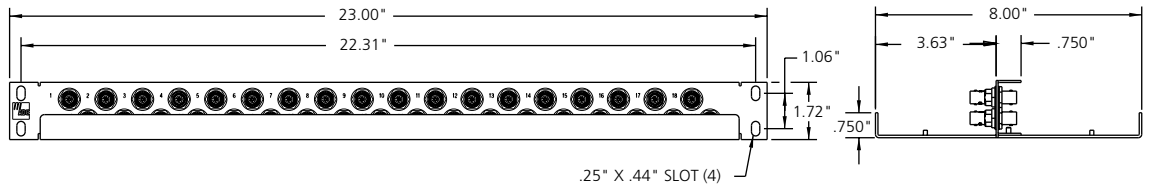
Drawings and Specifications

ICON® Video Bulkhead Panels

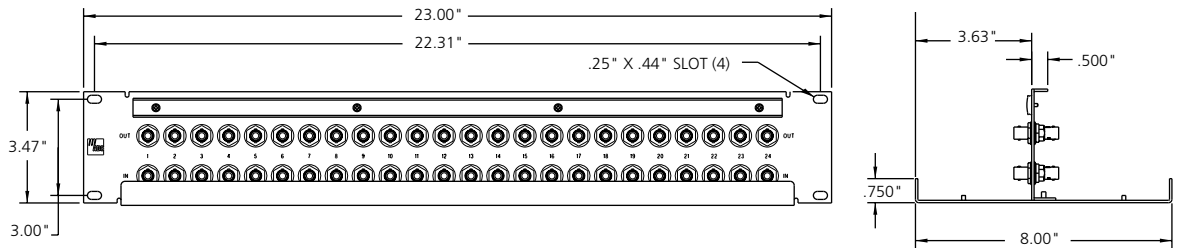
23" (584.2 mm) Panels with Cable Tray



VI-28-BBG



BNC-BLK-36-TR-1U-B



BNC-BLK-48-TR-2U-B



Drawings and Specifications

75 Ω BNC Connectors

Straight BNC Connectors

ELECTRICAL

Characteristic Impedance:	75 Ω
Voltage Rating:	1000 Volts RMS
Insertion Loss:	< 0.6 dB 1 MHz to 1 GHz (measured with 1 meter of 728 cable)
Return Loss:	Better than 35 dB to 1 GHz; 30 dB to 2 GHz; 26 dB to 3 GHz
Contact Resistance:	.030 Ω maximum change post environmental
Insulation Resistance:	200 M Ω minimum change

MECHANICAL

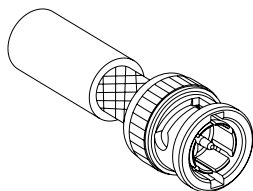
Mechanical Durability:	500 cycles minimum
Center Contact Retention:	6 lbs. min
Coupling Mechanism:	100 lbs. min
Cable Pulloff Force:	Dependent on cable size
Cable Bend and Twist:	500 cycles min
Force to Engage/Disengage:	Torque 2.5 in/lb max; longitudinal force 3 lbs. max
Interface Dimension:	MIL-C-39012 except 75 Ω

ENVIRONMENTAL

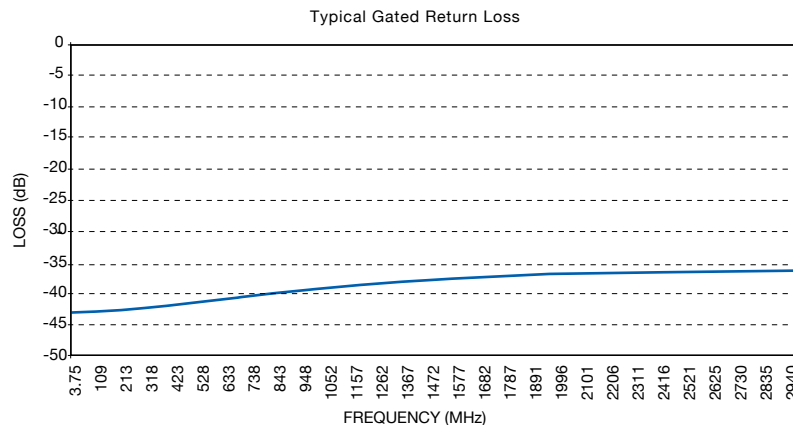
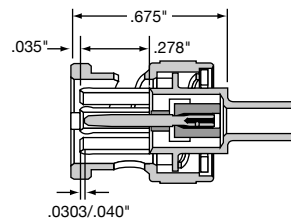
Thermal Shock:	-40°C to 65°C operating; -55°C to 85°C, non-operating
Moisture Resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101, Test Condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 201
Solvent Resistance:	MIL-STD-202 Method 215

FINISH

Body/Bayonet:	Tarnish-resistant electroless nickel plating
Center Conductor:	50 millionths inch gold plating MIL-G-45204 Type 1, Grade C, Class 1; requires .042" crimp station die



BNC-XX





Drawings and Specifications

75 Ω BNC Connectors

Right Angle BNC Connectors

ELECTRICAL

Characteristic Impedance:	75 Ω
Voltage Rating:	1000 Volts RMS
Insertion Loss:	< 0.6 dB 1 MHz to 1 GHz (measured with 1 meter of 728 cable)
Return Loss:	Better than 30 dB to 1 GHz; 26 dB to 2 GHz; 20 dB to 3 GHz
Contact Resistance:	.030 Ω maximum change post environmental
Insulation Resistance:	200 M Ω minimum change

MECHANICAL

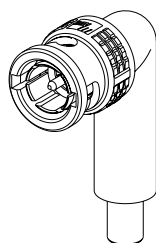
Mechanical Durability:	500 cycles min
Coupling Mechanism:	100 lbs. min
Cable Bend and Twist:	500 cycles min
Force to Engage/Disengage:	Torque 2.5 in/lb max; longitudinal force 3 lbs. max
Interface Dimension:	MIL-C-39012 except 75 Ω

ENVIRONMENTAL

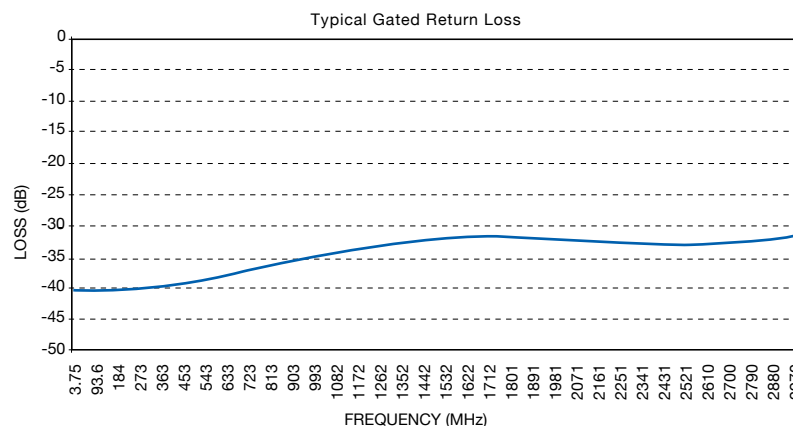
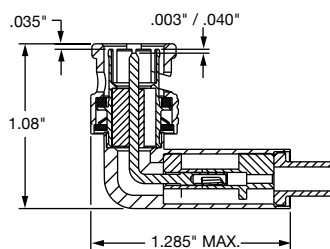
Thermal Shock:	-40°C to 65°C operating; -55°C to 85°C, non-operating
Moisture Resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101, Test Condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 201
Solvent Resistance:	MIL-STD-202 Method 215

FINISH

Body/Bayonet:	Tarnish-resistant electroless nickel plating
Center Conductor:	50 millionths inch gold plating MIL-G-45204 Type 1, Grade C, Class 1; requires .042" crimp station die



BNC-RA-XX





Drawings and Specifications

75 Ω BNC Connectors

Bulkhead Jack Connectors

ELECTRICAL

Characteristic Impedance:	75 Ω
Voltage Rating:	1500 Volts RMS
Insertion Loss:	Better than 0.20 dB 1 MHz to 2 GHz
Return Loss:	Better than 26 dB to 1 GHz; 18 dB to 2 GHz; 16 dB to 3 GHz
Contact Resistance:	.030 Ω maximum change post environmental
Insulation Resistance:	5000 M Ω minimum change

MECHANICAL

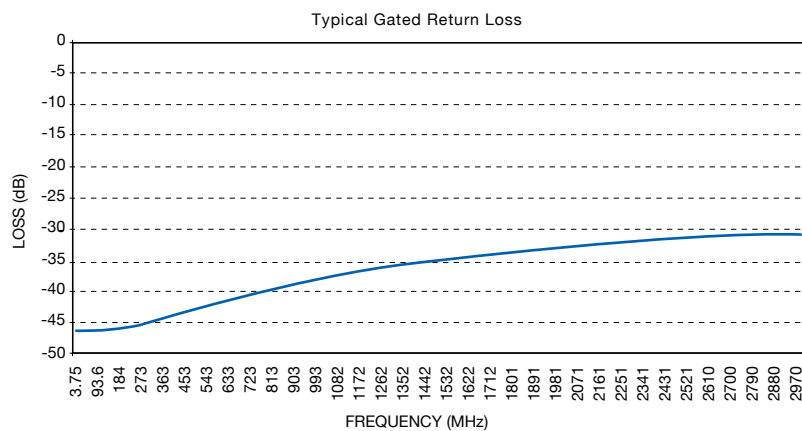
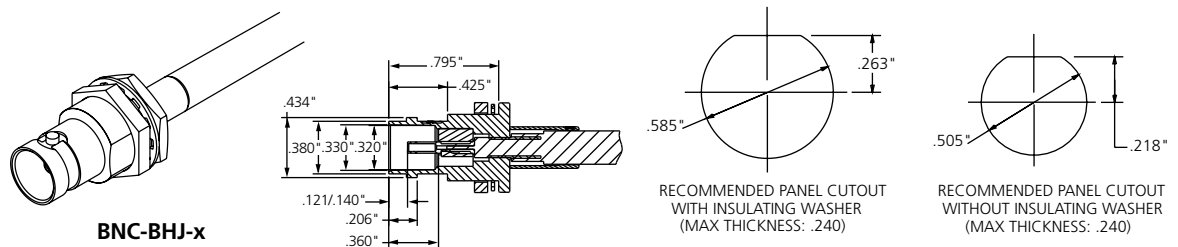
Mechanical Durability:	500 cycles minimum
Center Contact Retention:	6 lbs. min
Coupling Mechanism:	100 lbs. min
Cable Bend and Twist:	500 cycles min
Force to Engage/Disengage:	Torque 2.5 in/lb max; longitudinal force 3 lbs. max
Interface Dimension:	MIL-C-39012 except 75 Ω

ENVIRONMENTAL

Thermal Shock:	-40°C to 65°C operating; -55°C to 85°C, non-operating
Moisture Resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101, Test Condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 204, Test Condition B
Solvent Resistance:	MIL-STD-202 Method 215

FINISH

Body/Bayonet:	Tarnish-resistant electroless nickel plating
Center Conductor:	50 millionths inch gold plating MIL-G-45204 Type 1, Grade C, Class 1



Straight F Connectors

ELECTRICAL

Characteristic Impedance:	75 Ω
Voltage Rating:	1000 Volts RMS
Insertion Loss:	< 0.6 dB 1 MHz to 1 GHz (measured with 1 meter of 728 cable)
Return Loss:	Better than 35 dB to 1 GHz; 30 dB to 2 GHz; 26 dB to 3 GHz
Contact Resistance:	.030 Ω max change post environmental
Insulation Resistance:	200 M Ω min change

MECHANICAL

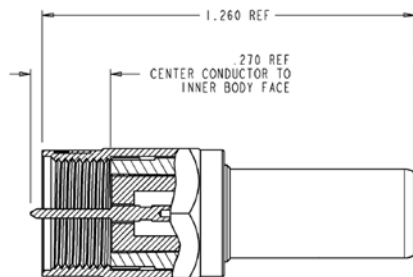
Mechanical Durability:	500 cycles min
Center Contact Retention:	6 lbs. min
Coupling Mechanism:	80 lbs. min
Cable Pulloff Force:	Dependent on cable size
Cable Bend and Twist:	500 cycles min
Coupling Nut Proof Torque:	Torque 20 in/lb min
Interface Dimension:	See Interface Detail below

ENVIRONMENTAL

Thermal Shock:	-40°C to 35°C operating; -55°C to 85°C, non-operating
Moisture Resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101, Test Condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 201
Solvent Resistance:	MIL-STD-202 Method 215

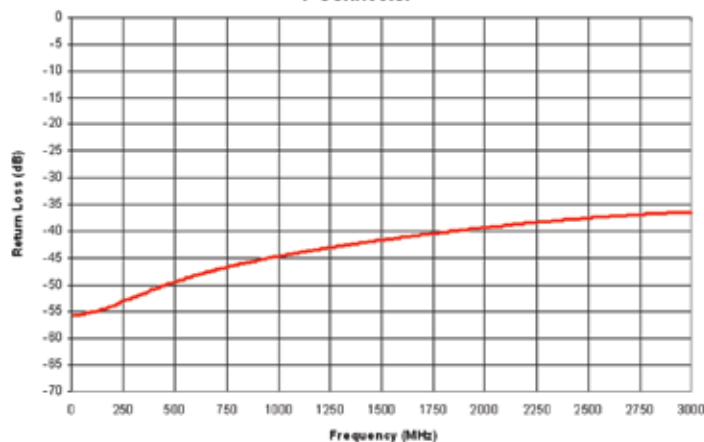
FINISH

Body:	Tarnish-resistant electroless nickel plating
Center Conductor:	50 millionths inch gold plating MIL-G-45204 Type 1, Grade C, Class 1; requires .042" crimp station die



CF-XX

Typical GATED RETURN LOSS
F Connector





Drawings and Specifications

RCA Connectors

Straight RCA Connectors

ELECTRICAL

Characteristic Impedance:	75 Ω typical
Voltage Rating:	1000 Volts RMS
Insertion Loss:	< 0.6 dB 1 MHz to 1 GHz (measured with 1 meter of 728 cable)
Return Loss:	Better than 26 dB up to 200 MHz
Contact Resistance:	.030 Ω maximum change post environmental
Insulation Resistance:	200 M Ω minimum change

MECHANICAL

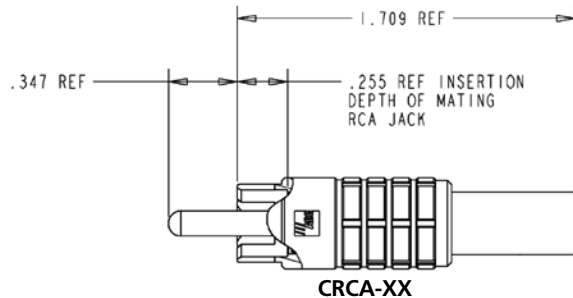
Mechanical Durability:	500 cycles min
Center Contact Retention:	6 lbs. min
Cable Pulloff Force:	Dependent on cable size
Cable Bend and Twist:	500 cycles min
Force to Engage/Disengage:	Longitudinal force 3 lbs. typical
Interface Dimension:	See Interface Detail below

ENVIRONMENTAL

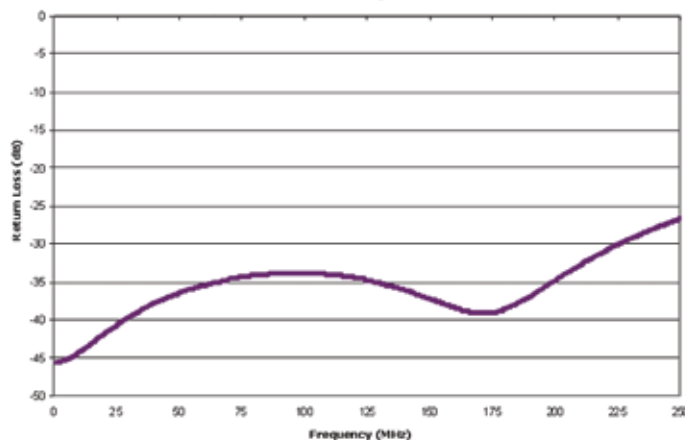
Thermal Shock:	-40°C to 35°C operating; -55°C to 85°C, non-operating
Moisture Resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101, Test Condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 201
Solvent Resistance:	MIL-STD-202 Method 215

FINISH

Body:	Tarnish-resistant electroless nickel plating
Center Conductor:	50 millionths inch gold plating MIL-G-45204 Type 1, Grade C, Class 1; requires .042" crimp station die



Typical Gated RETURN LOSS
RCA Plug





Drawings and Specifications

75 Ω BNC Termination Plugs

BNC Terminations Plugs

ELECTRICAL

Characteristic Impedance: 75 Ω

Termination Resistance: BNC-TP-2, 75 Ω + 0.1% (resistor value); BNC-TP-1, 75 Ω + 1.0% (resistor value)

Return Loss: BNC-TP-2, better than -29 dB return loss to 3.0 GHz; BNC-TP-1, better than -16 dB return loss to 2.0 GHz

MECHANICAL

Mechanical Durability: 500 cycles min

Coupling Mechanism: 100 lbs. min

Mechanical Shock: MIL-STD-202, Method 213

Interface Dimensions: MIL-C-39012 except 75 Ω

ENVIRONMENTAL

Thermal Shock: -40°C to 65°C -55°C to 85°C, non-operating;

Moisture Resistance: 0% to 95% relative humidity, tested to MIL-STD-202 Method 106

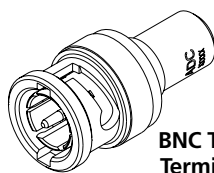
Corrosion (Salt Spray): MIL-STD-202 Method 101, Test Condition B

Vibration: MIL-STD-202 Method 201

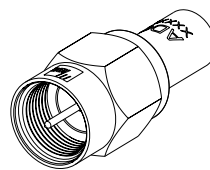
FINISH

Body/Bayonet: Tarnish resistant electroless nickel plating

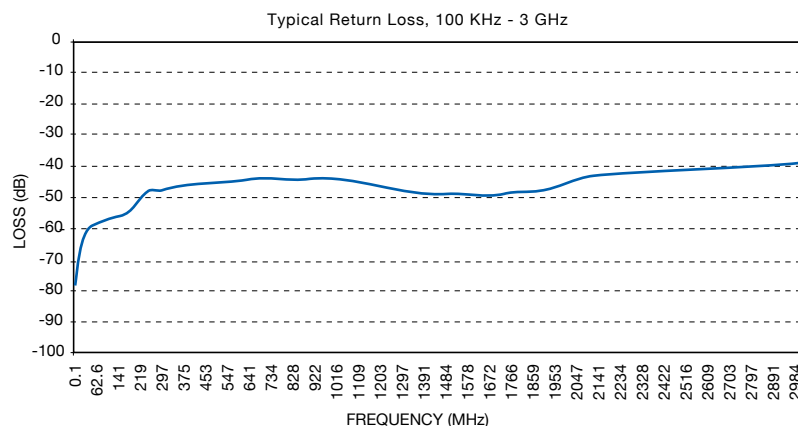
Center Conductor: 50 millionth inch gold plating MIL-C-45204 Type 1, Grade C, Class 1



BNC TP-1 and TP-2 Terminating Plugs



CF TP-1 and TP-2 Terminating Plugs





Drawings and Specifications

75 Ω BNC Connectors

BNC Adapters

ELECTRICAL

Characteristic Impedance:	75 Ω
Voltage Rating:	1500 Volts RMS
Insertion Loss:	Better than 0.20 dB 1 MHz to 2 GHz
Return Loss:	Better than 40 dB to 1 GHz; 30 dB to 2 GHz; 26 dB to 3 GHz
Contact Resistance:	.030 Ω maximum change post environmental
Insulation Resistance:	5000 M Ω minimum change

MECHANICAL

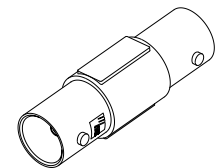
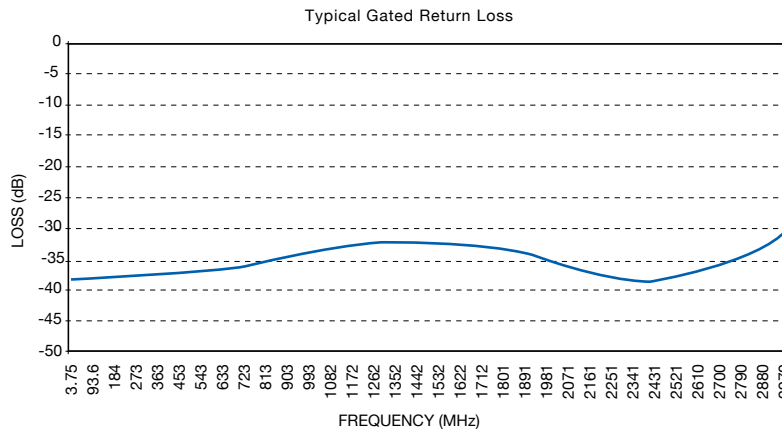
Mechanical Durability:	500 cycles min
Center Contact Retention:	6 lbs. min
Coupling Mechanism:	100 lbs. min
Cable Bend and Twist:	500 cycles min
Force to Engage/Disengage:	Torque 2.5 in/lb max; longitudinal force 3 lbs. max
Interface Dimension:	MIL-C-39012 except 75 Ω

ENVIRONMENTAL

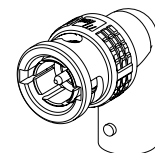
Thermal Shock:	-40°C to 65°C operating; -55°C to 85°C, non-operating
Moisture Resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101, Test Condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 204, Test Condition B
Solvent Resistance:	MIL-STD-202 Method 215

FINISH

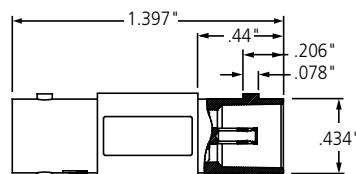
Body/Bayonet:	Tarnish-resistant electroless nickel plating
Center Conductor:	50 millionths inch gold plating MIL-G-45204 Type 1, Grade C, Class 1



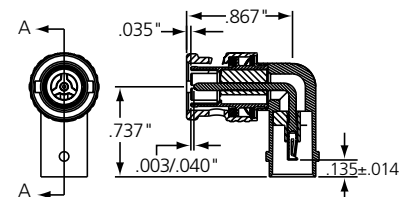
BNC Straight Adapter



BNC Right Angle Adapter



BNC Straight Adapter



BNC Right Angle Adapter

Drawings and Specifications

75 Ω BNC Connectors

Recessed BNC

ELECTRICAL

Characteristic Impedance:	75 Ω
Voltage Rating:	1500 Volts RMS
Insertion Loss:	Better than 0.20 dB 1 MHz to 2 GHz
Return Loss:	Better than 40 dB to 1 GHz; 30 dB to 2 GHz; 26 dB to 3 GHz
Contact Resistance:	.030 Ω maximum change post environmental
Insulation Resistance:	5000 M Ω minimum change

MECHANICAL

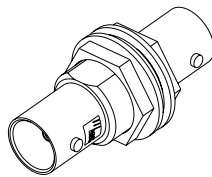
Mechanical Durability:	500 cycles minimum
Center Contact Retention:	6 lbs. min
Coupling Mechanism:	100 lbs. min
Cable Bend and Twist:	500 cycles min
Force to Engage/Disengage:	Torque 2.5 in/lb max; longitudinal force 3 lbs. max
Interface Dimension:	MIL-C-39012 except 75 Ω

ENVIRONMENTAL

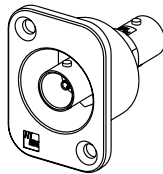
Thermal Shock:	-40°C to 65°C operating; -55°C to 85°C, non-operating
Moisture Resistance:	0% to 95%; MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101, Test Condition B
Flammability:	UL 94-VO rated (center conductor insulator)
Vibration:	MIL-STD-202 Method 204, Test Condition B
Solvent Resistance:	MIL-STD-202 Method 215

FINISH

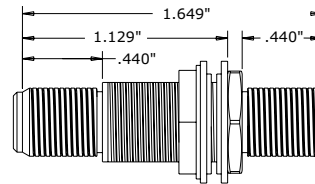
Body/Bayonet:	Tarnish-resistant electroless nickel plating
Center Conductor:	50 millionths inch gold plating MIL-G-45204 Type 1, Grade C, Class 1



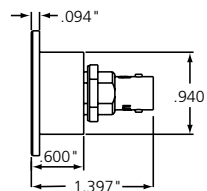
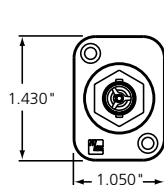
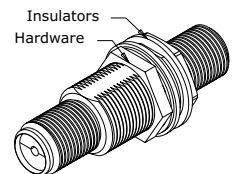
BNC Bulkhead Feed Through



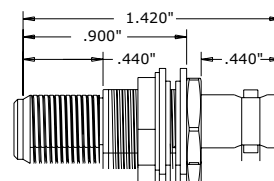
Recessed BNC



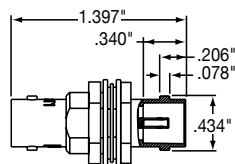
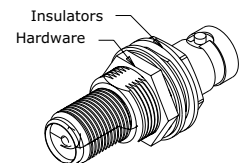
F to F Adapter



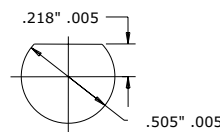
Recessed BNC



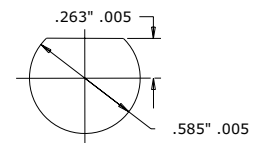
F to BNC Adapter



Bulkhead Feed Through



Recommended Panel cutout without Isolation Washer (Max Panel Thickness: .250)



Recommended Panel cutout with Isolation Washer (Max Panel Thickness: .250)



Drawings and Specifications

ProAx® Triaxial Camera Connectors

Electrical performance specifications of ProAx® Triaxial camera connectors are based on a male and female connector mated together.

Rated Bandwidth:	1 MHz to 1.5 GHz
Return Loss:	Better than -20 1 GHz/-15 to 2 GHz
Characteristic Impedance:	75 Ω nominal
Insertion Loss:	Better than 0.8 dB loss 1 MHz to 1.5 GHz
Dielectric Withstanding Voltage:	1500 Volts AC
Life Cycles:	1000 cycles minimum per MIL-PFR-39012

MECHANICAL

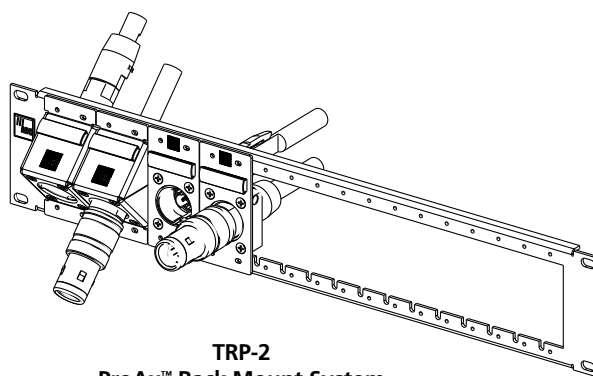
Life Cycles:	1000 cycles minimum per MIL-PFR-39012
Cable Retention:	100 lb. Per MIL-STD-1344A Method 2010.1

MATERIALS

Body materials:	Brass per ASTM B16, CDA Alloy 360 with electroless nickel plating per QQ-N-290
Inner bodies:	Brass per ASTM B16, CDA Alloy 360 with 50 millionths inch gold plating
Latching spring:	Stainless Steel 460 SE heat treated and Electro-Polished
Spring center conductors:	Beryllium Copper with 50 millionths inch Gold per MIL-G-45204 Type 1
Crush rings:	303 Stainless
Machined center conductors:	Brass per ASTM B16 CDA Alloy 360 with 50 millionths inch Gold per MIL-G-45204 Type 1
Ground Clip:	Beryllium Copper with electroless nickel plating per QQ-N-290 and Gold per MIL-G-45204 Type 1
Insulators:	Teflon™
O-Rings:	Ethylene Propylene

ENVIRONMENTAL

Temperature	
Operating:	-40°C to 65°C
Storage:	-55°C to 85°C
Thermal shock:	Per MIL-STD-202, Method 107
Humidity	
Operating:	0% to 95%, non-condensing
Storage:	0% to 95%, non-condensing
Salt spray:	Per MIL-STD-202, Method 101, Test Condition B
Moisture resistance:	Per MIL-STD-202, Method 106
Sand and dust resistance:	Per MIL-STD-202, Method 101
Flammability:	UL 94-VO Rated
Crush resistance:	Per MIL-STD-1344A, Method 2008.1



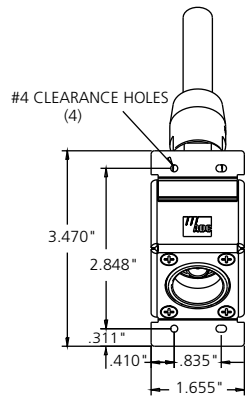
TRP-2
ProAx™ Rack Mount System



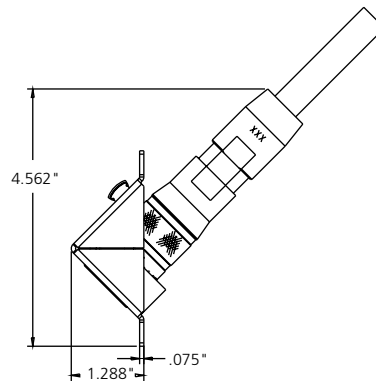
Drawings and Specifications

ProAx® Triaxial Camera Connectors

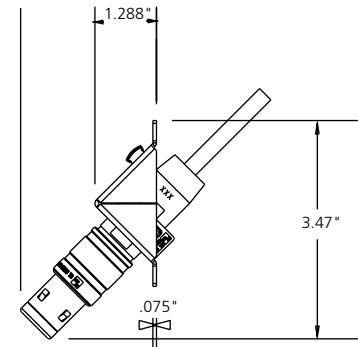
45° Angled Adapter



Front View

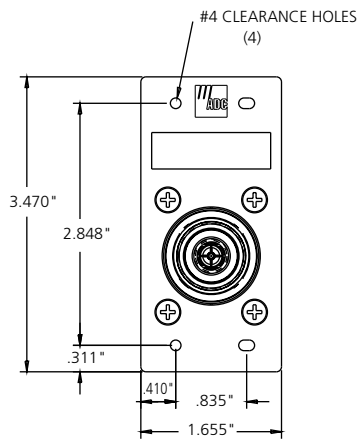


Jack

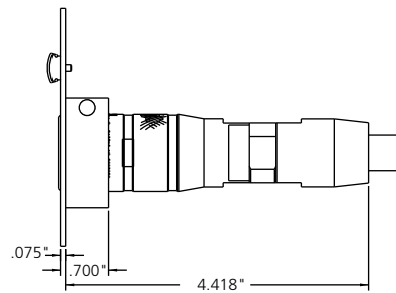


Plug

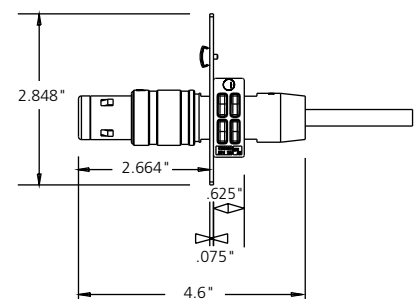
Straight Adapter Kit



Front View



Jack



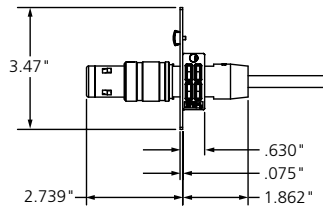
Plug

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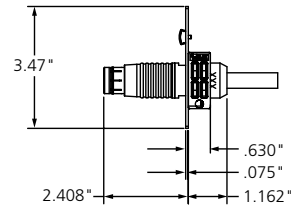


Drawings and Specifications

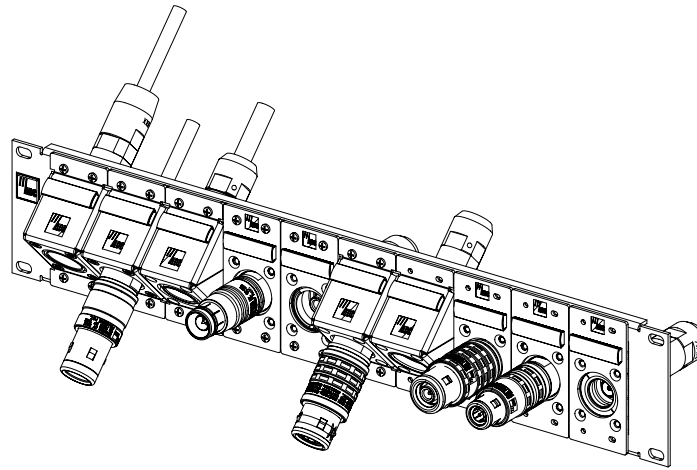
ProAx® Triaxial Camera Connectors



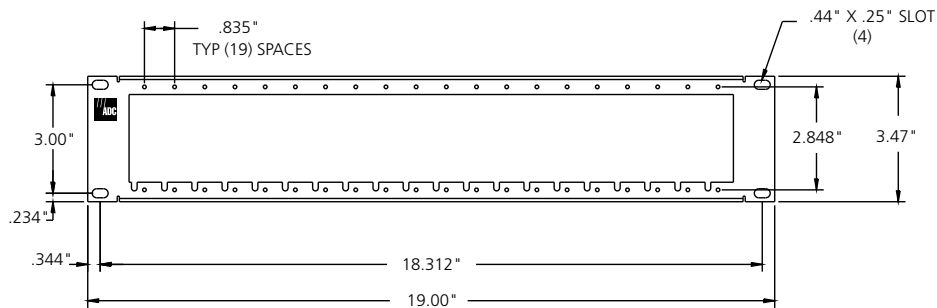
**Triax Connector
with Traditional (old) Backshell**



**Triax Connector
with Global Backshell**



**GTCJ-XXX
Global ProAx Triax**



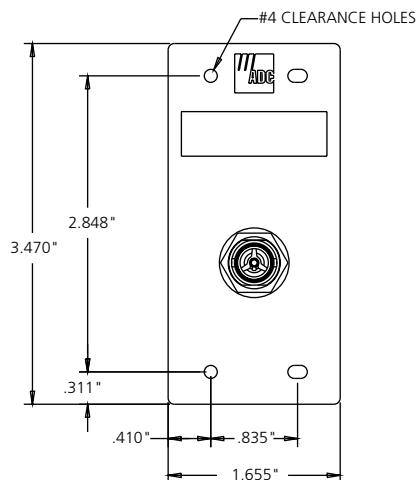
**TRP-2
ProAx™ Rack Mount System**



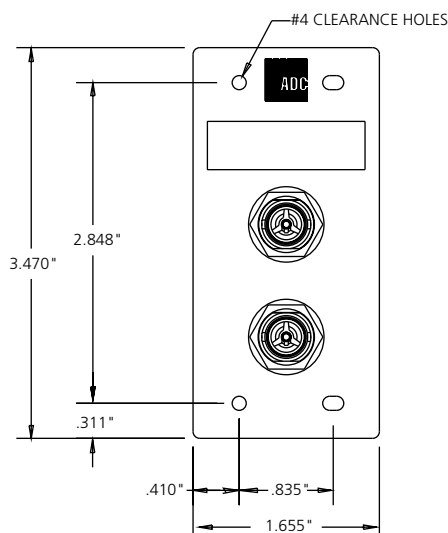
Drawings and Specifications

ProAx® Triaxial Camera Connectors

BNC Modules for ProAx™ Rack Mount Plate

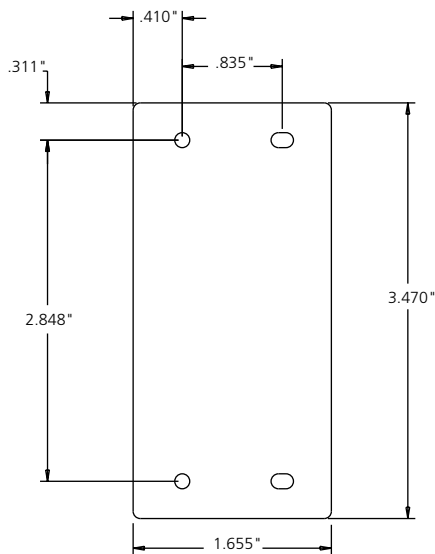


TRP-2BNCFT-x

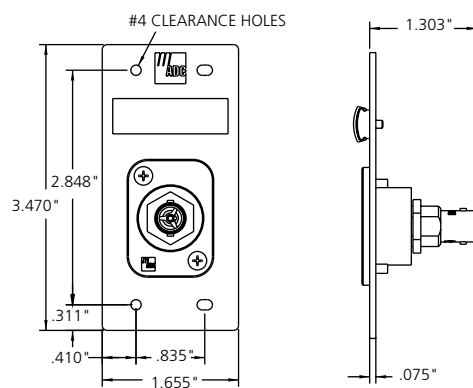


TRP-2BNCFT-2-x

Recessed BNC Modules for ProAx™ Rack Mount Plate



TRP-2BLANK-G



BHFT-R-XX

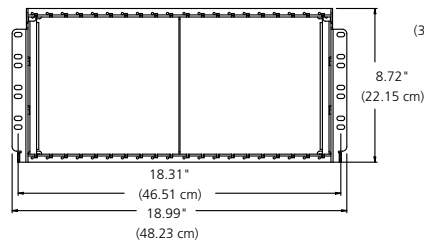
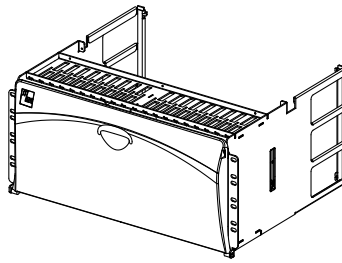
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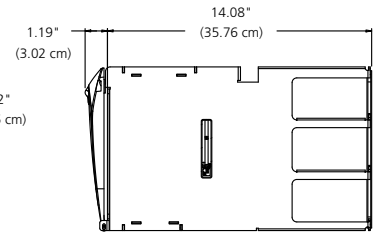
Drawings and Specifications

SignalOn® Series Passives

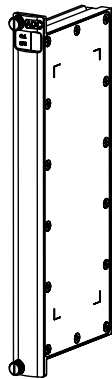
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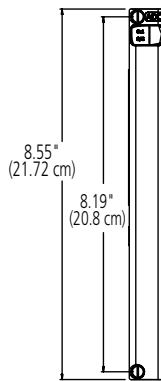
**20-Position Chassis
Front View**



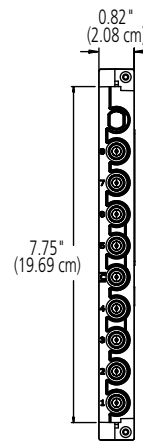
**20-Position Chassis
Side View**



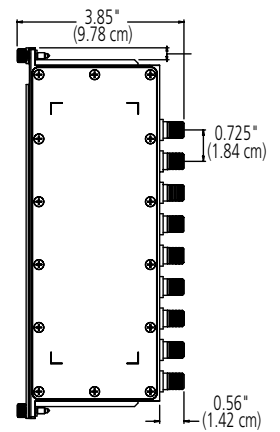
Module



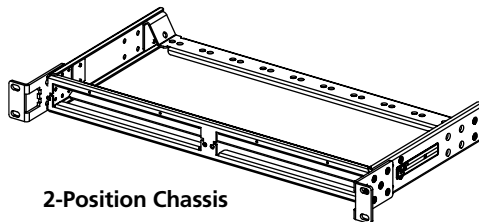
**Module
Front View**



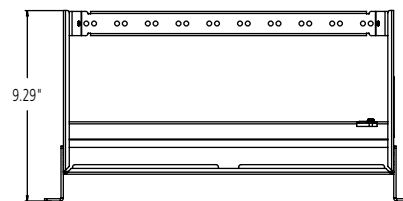
**Module
Rear View**



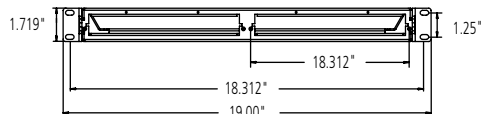
**Module
Side View**



2-Position Chassis



**2-Position Chassis
Top View**



**2-Position Chassis
Front View**



Drawings and Specifications

SignalOn® Series Passives

Splitter/Combiner Specifications

The RF Worx® SignalOn® Series offers specifications that meet or exceed the best in the industry for insertion loss, port-to-port isolation and frequency response.

ELECTRICAL

Return Loss (All Ports):	-20 dB
Insertion Loss Flatness (Input Ports)	
Plain Modules (S/C):	Nominal ± 0.5 dB; 5-1000 MHz
Modules with Pad Monitor and	± 0.5 dB; 5-860 MHz
Make-Before-Break Attenuation	± 0.7 dB; 860-1000 MHz
Isolation (Adjacent Ports):	-30 dB

MECHANICAL

Connector Center-to-center Spacing:	0.725"
-------------------------------------	--------

Assembly Type	MBB Default	Performance Attributes	Specification (dB)	
			5-860 MHz	860-1000 MHz
All Modules		Minimum Return Loss, All Ports	-20	-20
		Minimum Isolation, Adjacent Ports	-30	-30
		Minimum EMI, Near-Field & Far-Field	-100	-100
2x1 Plain Module	-	Insertion Loss, Input Ports to C-Port	-3.8 ± 0.5	-3.8 ± 0.5
4x1 Plain Module	-	Insertion Loss, Input Ports to C-Port	-7.3 ± 0.5	-7.3 ± 0.5
8x1 Plain Module	-	Insertion Loss, Input Ports to C-Port	-11.6 ± 0.5	-11.6 ± 0.5
2x1 Splitter	0 dB	Insertion Loss, Input Ports to C-Port	-4.6 ± 0.5	-4.6 ± 0.7
		Monitor Level, C-Port to M-Port	-20.0 ± 0.6	-20.0 ± 0.8
	6 dB	Insertion Loss, Input Ports to C-Port	-10.6 ± 0.5	-10.6 ± 0.7
		Monitor Level, C-Port to M-Port	-20.0 ± 0.6	-20.0 ± 0.8
2x1 Combiner	0 dB	Insertion Loss, Input Ports to C-Port	-4.6 ± 0.5	-4.6 ± 0.7
		Monitor Level, Input Ports to M-Port	-24.6 ± 0.6	-24.6 ± 0.8
	6 dB	Insertion Loss, Input Ports to C-Port	-10.6 ± 0.5	-10.6 ± 0.7
		Monitor Level, Input Ports to M-Port	-30.6 ± 0.6	-30.6 ± 0.8
4x1 Splitter	0 dB	Insertion Loss, Input Ports to C-Port	-8.6 ± 0.5	-8.6 ± 0.7
		Monitor Level, C-Port to M-Port	-20.0 ± 0.6	-20.0 ± 0.8
	6 dB	Insertion Loss, Input Ports to C-Port	-14.6 ± 0.5	-14.6 ± 0.7
		Monitor Level, C-Port to M-Port	-20.0 ± 0.6	-20.0 ± 0.8
4x1 Combiner	0 dB	Insertion Loss, Input Ports to C-Port	-8.6 ± 0.5	-8.6 ± 0.7
		Monitor Level, Input Ports to M-Port	-28.6 ± 0.6	-28.6 ± 0.8
	6 dB	Insertion Loss, Input Ports to C-Port	-14.6 ± 0.5	-14.6 ± 0.7
		Monitor Level, Input Ports to M-Port	-34.6 ± 0.6	-34.6 ± 0.8
8x1 Splitter	0 dB	Insertion Loss, Input Ports to C-Port	-12.4 ± 0.5	-12.4 ± 0.7
		Monitor Level, C-Port to M-Port	-20.0 ± 0.6	-20.0 ± 0.8
	6 dB	Insertion Loss, Input Ports to C-Port	-18.4 ± 0.5	-18.4 ± 0.7
		Monitor Level, C-Port to M-Port	-20.0 ± 0.6	-20.0 ± 0.8
8x1 Combiner	0 dB	Insertion Loss, Input Ports to C-Port	-12.4 ± 0.5	-12.4 ± 0.7
		Monitor Level, Input Ports to M-Port	-32.4 ± 0.6	-32.4 ± 0.8
	6 dB	Insertion Loss, Input Ports to C-Port	-18.4 ± 0.5	-18.4 ± 0.7
		Monitor Level, Input Ports to M-Port	-38.4 ± 0.6	-38.4 ± 0.8



Drawings and Specifications

SignalOn® Series Satellite Splitters/Combiners

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Splitter/Combiner 2-Way

ADC catalog numbers: N-MLF12, N-MLB12

Assy Type 2 Way	Customer Specifications			Units
	950-1450 MHz	1450-1750 MHz	750-2150 MHz	
Insertion Loss Ports 1-2 to C-Port	-3.7±0.5	-3.7±0.5	-3.9±0.5	dB
Return Loss Min Ports 1-2	-18	-18	-16	dB
Return Loss Min Common Port	-17	-17	-16	dB
Isolation Min Adjacent Ports	-20	-20	-20	dB

Splitter/Combiner 4-Way

ADC catalog numbers: N-MLF14, N-MLB14

Assy Type 4 Way	Customer Specifications			Units
	950-1450 MHz	1450-1750 MHz	750-2150 MHz	
Insertion Loss Ports 1-4 to C-Port	-6.8±0.5	-6.8±0.5	-7.1±0.5	dB
Return Loss Min Ports 1-4	-18	-18	-16	dB
Return Loss Min Common Port	-17	-17	-16	dB
Isolation Min Adjacent Ports	-20	-20	-20	dB

Splitter/Combiner 8-Way

ADC catalog numbers: N-MLF18, N-MLB18

Assy Type 8 Way	Customer Specifications			Units
	950-1450 MHz	1450-1750 MHz	750-2150 MHz	
Insertion Loss Ports 1-8 to C-Port	-10.3±0.5	-10.6±0.5	-11.0±0.7	dB
Return Loss Min Ports 1-8	-18	-16	-16	dB
Return Loss Min Common Port	-17	-17	-16	dB
Isolation Min Adjacent Ports	-20	-20	-20	dB

Splitter/Combiner 2-4-8 Way

ADC catalog numbers: N-MLF12, N-MLB12, N-MLF14, N-MLB14, N-MLF18, N-MLB18

Assy Type	DC Power Passing Ports	Maximum Power Rating
2 Way	1,2	24 VDC @ 1 Ampere
4 Way	1,4	24 VDC @ 1 Ampere
8 Way	1,8	24 VDC @ 1 Ampere

Electrical Characteristics (General)

Characteristic	Engineering	Customer
Impedance	75 Ω nominal	75 Ω nominal
DC Power	24 VDC @ 1 Ampere Max.	24 VDC @ 1 Ampere Max.



Drawings and Specifications

SignalOn® Series Actives

Forward Path Amplifier Specifications

Performance Attribute	20dB Forward Amplifier	30dB Forward Amplifier
Bandwidth	50-1000 MHz	50-1000 MHz
Optimum RF Input	20dBmV per channel	10dBmV per channel
Minimum Full Gain	20.0 dB	30.0 dB
Gain Adjustment Range	10 ±1dB in 0.5dB steps	10 ±1dB in 0.5dB steps
Tilt Adjustment Range	10 ±1dB @ 50MHz in 0.5dB steps	10 ±1dB @ 50MHz in 0.5dB steps
Gain Flatness	±0.4 dB from 50 to 870 MHz ±0.5 dB from 870 to 1000 MHz	±0.45 dB from 50 to 870 MHz ±0.65dB from 870 to 1000 MHz
Return Loss, input and output ports	-19.0 dB from 50 to 870 MHz -16.5 dB from 870 to 1000 MHz	-18.0 dB from 50 to 870 MHz -15.0 dB from 870 to 1000 MHz
Noise Figure	7.3 dB from 50 to 870MHz 7.6 dB from 870 to 1000MHz	5.7 dB from 50 to 870MHz 6.2 dB from 870 to 1000MHz
CTB ¹	-73.1 dB	-78.9 dB
CSO ¹	-81.7 dB	-84.5 dB
IMD ¹	-78.2 dB	-83.7 dB
Monitor ports	-20dB test point for both RF input and RF output	
Power dissipation	17W max	
Operating Temperature	0 - 50 degrees C	
Dimensions	8.55"H x 1.67"W x 7.81"D	
Power connector	gold-on-gold, slide-on contacts	
Thermal Shock	Meets MIL-STD-202 Method 107	
Office Vibration	Meets GR-63-Core Section 5.4.2	
Mechanical Shock	Meets MIL-STD-202 Method 213	
Accelerated Aging	Meets MIL-STD-202 Method 108	

Power Supply Specifications

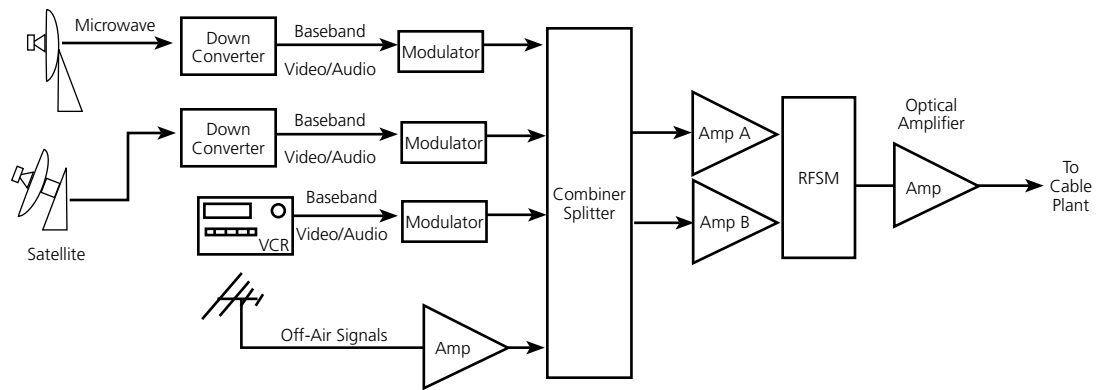
Performance Attribute	AC-DC	DC-DC
Input Voltage	90-264 VAC, 50/60 Hz	36-72 VDC nominal
Efficiency	75% nominal	80% nominal
Output Voltage	24 VDC ± 5%	24 VDC ± 5%
Output Power	200W (24 VDC @ 8.33 Amps)	192W (24 VDC @ 8Amps)
Amplifiers Supported	Up to nine 30dB amplifiers	Up to nine 30dB amplifiers
Redundancy	Yes, dual load sharing	Yes, dual load sharing
Operating Temperature	0 – 50° C	0 – 50° C
Dimensions	8.55"H x 1.67"W x 12.96"D	8.55"H x 1.67"W x 12.96"D
Power Connector	gold-on-gold, slide-on contacts	gold-on-gold, slide-on contacts
Test Points	24 VDC output test points	24 VDC output test points
Fan	Field Replaceable Unit	Field Replaceable Unit
Alarm Relays	Fan Fail, Output Power Fail	Fan Fail, Output Power Fail
TTL Contacts	Remote Inhibit, Input Power Fail, Output Power Fail	Remote Inhibit, Input Power Fail, Output Power Fail

¹ – Measured with 110 channel loading and optimum RF input level at full gain and no tilt

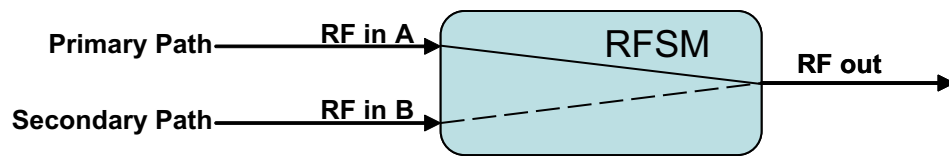
Specifications are typical worst-case numbers across the given frequency range, unless otherwise noted, and are subject to change without notice.

Drawings and Specifications

SignalOn® Series RF Switch Modules



General Application Amplifier Redundancy



General Application Path Redundancy

Electrical Specifications

Frequency Range of operation	5MHz to 1GHz
Operating input level	50MHz to 1GHz
Insertion Loss	< 1dB to 1GHz
Flatness	< 0.6dB
Return Loss	> 20dB to 1GHz
Isolation between signal paths	> 60 dB
Isolation between circuits (Dual units)	> 70dB



ADC Patents for Products in this Catalog

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Product	Patent
SVJ-2 Super Video Jack	USO5964607 USO6045378
MVJ-3 Super Video Jack	USO5885096 USO6045378
UniPatch®, High-Density	USO6186798
Data Patching System	USO6345986 USO6623278 USO6992257 Others Pending
UniPatch® Balun Modules	USO6597256 Others Pending
ProAx® Triaxial Connectors	USO5967852 USO6109963 USO6146192 USO6231380 USO6575786 USO6561848 USO6997744 USO6783395 USO6811432 USO6942491 USO6991491 Others Pending
BNC/Coaxial Connectors	USO5921802 USO6428354 USO5921802 USO6712647 USO6848948 USO6953368 Others Pending
ProPatch® Programmable	USO6875060
RF Worx®	USO6888078

Note: This is a brief representation of ADC's patents.
Numerous patents remain unlisted that apply to
the products mentioned in this catalog.



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Shinjeong Protech Corp.	+82 7837588	
SION MEDIA	+82 2 21095842	www.sionmedia.com
SyncTech Audio Visual System Engineering	+82 2 4256450	
Vision Systems Corp	+82 2 84877718	www.visions.co.kr

Taiwan

Interactive Digital Technologies Inc.	+886 2 26585858	
TELTAI (Taiwan) Ltd.	+866 2 27733237	www.teltai.com.tw

Thailand

KDM Trading Co Ltd	+66 2 7186085	www.kdm.co.th
PINNACLE	+66 2 7343488	www.pinnacleholding.com

Vietnam

TelTechco	+68 4 5370927	www.teltechco.com
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Channel Partners

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Bahrain

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Belgium

Diginet	+32 2 257 01 81	www.diginet.be
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Bosnia & Herzegovina

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Croatia

Videolab	+49 221 595 69 200	www.video-lab.de
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Denmark

Professional Sound systems	+45 3297 2900	www.pss.dk
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Finland

TV Tools Oy	+358 9 525 9700	www.tvtools.fi
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France

Pilote Films	+33 (0) 5 58 41 41 41	www.pilotefilms.com
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Germany

Videolab	+49 221 595 69 200	www.video-lab.de
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Greece

Telmaco	+30 210 68 74 100	www.telmaco.gr
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Italy

Professional Show	+39 049 865 7111	www.professionalshow.com
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Lithuania

TV & Communication Systems	+370 41 520 295	www.tvc.lt
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Macedonia

Videolab	+49 221 595 69 200	www.video-lab.de
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The Netherlands

Diginet	+32 2 257 01 81	www.diginet.be
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Oman

Al Mazroui-ICAS	+971 4 2826070 ext. 305	www.almazrouicas.com
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Poland

JBD	+48 (22) 715 56 71	www.jbd.com.pl
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Qatar

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Russia & CIS Countries

DNK Corporation	+7 495 232 38 28	www.dnk.ru
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Serbia & Montenegro

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Spain

Lexon	+34 936 021 400	www.lexon.net
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Sweden

DiViTec	+46 8 544 705 90	www.divitec.se
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Switzerland

Videolink	+41 44 723 38 80	www.videolink.ch
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UAE-Dubai

Al Mazroui-ICAS	+971 4 2826070 ext. 312	www.almazrouicas.com
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UAE-Abu Dhabi

Al Mazroui-ICAS	+971 2 6724422 ext. 303	www.almazrouicas.com
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UAE-Jebel Ali

Al Mazroui-ICAS	+971 4 8833767 ext. 103	www.almazrouicas.com
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Ukraine

ComTel	+380 44 2386845	www.comtel.com.ua
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United Kingdom

Argosy Components Ltd	+44 (0)1844 202 101	www.argosycable.com/
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please contact ADC - Hervé Fauvelet +33 (0) 6 21 24 43 80 herve.fauvelet@adc.com



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