



Amphenol Pcd is one of the world's leading suppliers of interconnect products for Military, Commercial Aerospace and Industrial applications. Located north of Boston in Beverly, Massachusetts, the company designs and manufactures a wide range of products; System Attachments, Junction Modules, Relay Sockets, Terminal Blocks, Rectangular & Circular Connectors, Cable Assemblies and Adapters. Each product is made and engineered with the highest quality standards in the industry. With facilities in North America and Asia, Amphenol Pcd products are chosen by thousands of OEMs around the world, reliant on Amphenol's technical excellence, global network of distributors, and cost-effective solutions for custom systems.

## Amphenol Pcd

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## Luminus Series

The Luminus Series are lightweight, cost-effective connectors that are highly reliable and simple to use. With multiple configurations and arrangements available, a solution can be tailored to suite your application's exact requirements. Proven solutions can be found in single engine general aviation, multiple-engine business and passenger jets, and high performance rotary aircraft. Ideal where space is limited, these innovative, "scoop-proof" connectors feature a locking mechanism that ensures stability, are suitable for blind-mating, and are RoHS compliant.

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## Features & Benefits

### *1/4 turn bayonet style connection; push and snap connection*

Makes wire installation and maintenance easy and efficient; positive "click" when locked

### *Interfacial and Triple-Barrier Seal*

Enables environmental sealing (IP 67 rating)

### *Multiple Keying Positions*

Ensures proper connectivity

### *Multiple Configurations and Accessories*

Tailored solutions to meet application needs

### *Contacts*

AS39029 MIL Spec contacts for broad application compatibility. Stamped & Formed available as lower cost option

### *Visual markings*

Visual aid for easy assembly

### *Rugged Polyamide Housings; 500 mating cycles*

Durability

### *Blind-Mate Connection*

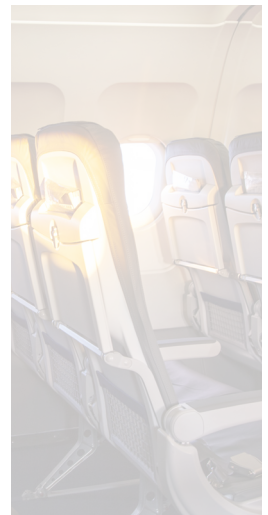
Enables simple, blind mating; easy assembly

### *D160, M81714, FAR25 Compliance*

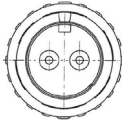
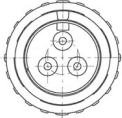


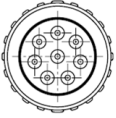

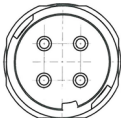
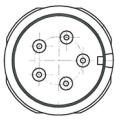
Meets demanding military-aerospace environmental conditions

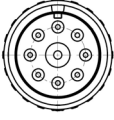
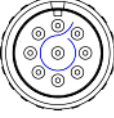
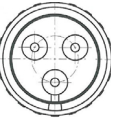



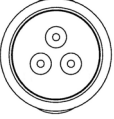

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## Applications



# Shell Sizes

<b>05 (max dia: 0.318)</b>
2, size 22 Twist & Lock

3, size 22 Twist & Lock

<b>06 (max dia: 0.390)</b>
1, size 16 & 20 Push & Pull

<b>07 (max dia: 0.448)</b>
6, size 22 Twist & Lock

8, size 22 Twist & Lock

1, size 12 Push & Pull

<b>08 (max dia: 0.528)</b>
4, size 16 Twist & Lock

5, size 22 Twist & Lock


<b>08 (max dia: 0.528)</b>
9: 1, size 16; 8 size 22 Twist & Lock

9, size 22 Twist & Lock

3, size 16 Twist & Lock 3, size 20 Push & Pull

<b>10 (max dia: 0.630)</b>
9: 4, size 16; 5 size 22 Twist & Lock

10: 4, size 16; 6 size 22 Twist & Lock

<b>11 (max dia: 0.700)</b>
3, size 12 Twist & Lock

3, size 16 Push & Pull

<b>14 (max dia: 0.875)</b>
25, size 22 Twist & Lock


# Materials & Specifications

	Push & Pull	Twist & Lock	
<b>Materials</b>	Insulator Body: Polyamide 6/6 (Nylon)	Insulator Body: Polyamide 6/6 (Nylon)	
	Grommet: Silicone Rubber	Grommet & Face Seal: Silicone Rubber	
	Contact Retainer: Stainless Steel	Contact Retainer: Stainless Steel	
	Contacts: Copper Alloy Gold Plated		
<b>Temperature Range</b>	-65°C to 125°C	-65°C to 125°C	
<b>Temperature Life</b>	150 hours @ 95°C	500 hours @ 85°C	
<b>Insulation Resistance</b>	1500VAC, 60hz @ Sea Level	5000 MΩ Min. @ 500 VDC	
<b>Dielectric Withstanding</b>	1500 VAC, 60 Hz @ Sea Level, 1ma	1500 VAC, 60 Hz @ Sea Level, 1ma	
	300 VAC, 60 Hz @ 70,000 ft, 2ma	300 VAC, 60 Hz @ 70,000 ft, 2ma	
<b>Durability</b>	50 mating cycles	500 mating cycles	
<b>Altitude Immersion</b>	5% salt solution, 55k ft, DWV 1500VA	5% salt solution, 75k feet	
		5000Mohms @ 1500 VAC, sea level	
		5000Mohms @ 300 VAC, 70k ft	
		5000Mohms @ 300 VAC, 100k ft	
<b>Temperature Cycling</b>	5(1) Hour Cycles: 0 C to 95 C	5(1) Hour Cycles: -65°C to 125°C	
<b>Thermal Shock</b>	5(1) Hour Cycles: 0 C to 95 C	-65°C to 200°C	
<b>Vibration</b>	Contact Factory	30G Sinusoidal; 43.96G Random	
<b>Shock</b>		300G, 3msec, Half-Sine	
<b>Salt Spray</b>		5% Salt Spray @ 95°C for 48 Hours	
<b>Humidity</b>		10 Days @ 25°C to 65°C, 90% - 95% RH	10 Days @ 25°C to 65°C, 90% - 95% RH
<b>Fluid Immersion</b>		Lubricating Oil per Mil-Prf-7808	
		Cleaning Compound per Mil-Prf-87937, Alkaline Base	
		Isopropyl Alcohol & Mineral Spirit Solution	
	Skydrol Hydraulic Fluid	Skydrol Hydraulic Fluid	
	Hydraulic Fluids per MIL-PRF-83282 MIL-PRF-87257	Hydraulic Fluids per MIL-PRF-83282 MIL-PRF-87257	
	Ethylene Glycol	Ethylene Glycol	
	Propylene Glycol	Propylene Glycol	
Aviation Jet A	Aviation Jet A		
<b>Seal Rating</b>	IP67	IP67	
<b>Flammability</b>	UL94, V0.	UL94, V0.	
		DOTG section 26.6.2 & 26.6.3	
		FAR Part 25 App F Part I	
<b>RoHS &amp; REACH Compliance</b>	Yes	Yes	
<b>Contact Insertion &amp; Removal Force</b> <small>(not to exceed)</small>	-	size 22	10 lbs
		size 20	10 lbs
		size 16	13 lbs
		size 12	15 lbs
<b>Contact Retention</b> <small>(minimum)</small>	-	size 22	10 lbs
		size 20	15 lbs
		size 16	25 lbs
		size 12	30 lbs

# Part Numbering (Twist & Lock)



# of Positions	Contact Size	Shell Size	Key	Color	Plug P/N	Inline Receptacle P/N	Circular Receptacle P/N	Square Receptacle PN	Jamnut PCB Mount	Oval Receptacle PN	Jam Nut Rear Mount Receptacle PN
1	Quadrax	8	-	-	SJS801110	SJS801120	-	SJS801130*	SJS801160*	SJS801170*	SJS801190*
2	22D	5	-	black	SJS830250	SJS830270	-	-	-	SJS502170	SJS502190
3	12	11	-	black	SJS103110*	SJS103120*	-	-	-	-	-
3	22D	5	-	black	SJS830210	SJS830230	-	-	-	SJS503170	SJS503190
3	20	7	-	white	SJS862300	SJS862400	-	SJS862450	-	-	-
3	16	8	A	white	SJS840310	SJS840300	SJS840320	SJS803730	-	-	-
3	16	8	B	black	SJS840340	SJS840350	SJS840330	SJS803130	-	-	-
3	12	10	-	-	SJS003110	SJS003120	-	-	-	-	-
3	12	11	-	black	SJS103110	SJS103120	-	-	-	-	-
4	16	8	A	white	SJS840410	SJS840400	SJS840420	SJS804730	SJS804760	-	SJS804790
4	16	8	B	white	SJS840440	SJS840450	SJS840430	-	-	-	-
4	20	7	-	black	SJS704110	SJS704120	-	-	-	-	-
5	22D	8	-	white	SJS860510	SJS860500	SJS860520	SJS805730	-	-	-
5	22D	8	-	white	SJS870510	-	SJS870520	-	-	-	-
6	22D	7	-	black	SJS861700	SJS861800	-	-	SJS706160	-	-
8	22D	7	A	black	SJS830100	SJS830200	-	SJS830220	SJS708160	SJS708170	SJS708190
8	22D	7	B	green	SJS830101	SJS830201	-	SJS830221	-	-	-
8	22D	7	C	yellow	SJS830102	SJS830202	-	SJS830222	-	-	-
9	22D	8	-	black	SJS862100	SJS862200	-	SJS809130	-	-	-
12	22D	8	-	white	SJS861300	SJS861400	-	SJS812730	SJS812760*	-	-
12	22D	11	A	black	SJS112110	SJS112120	-	-	SJS112160	-	-
12	22D	11	B	-	SJS112210	SJS112220	-	-	SJS112260	-	-
12	22D	11	C	-	SJS112310	SJS112320	-	-	SJS112360	-	-
12	22D	11	D	-	SJS112410	SJS112420	-	-	SJS112460	-	-
25	22D	14	A	black	SJS425110	SJS425120	-	-	SJS425160	-	-
25	22D	14	B	-	SJS425210	SJS425220	-	-	SJS425260	-	-
25	22D	14	C	-	SJS425310	SJS425320	-	-	SJS425360	-	-
25	22D	14	D	-	SJS425410	SJS425420	-	-	SJS425460	-	-
12	20	14	-	-	SJS412110	SJS412120	-	-	-	-	-
5	12 (3)	11	-	black	SJS1AE110*	SJ1AE120*	-	-	-	-	-
	22 (2)						-	-	-	-	-
9	16	8	-	white	SJS860100	SJS860200	-	-	-	-	-
	22D						-	-	-	-	-
9	16	10	-	white	SJS860910	SJS860900	-	SJS0AA730	-	-	-
	22D						-	-	-	-	-
10	16	10	-	white	SJS861100	SJS861200	-	SJS0A8730*	SJS0BB770*	-	-
	22D						-	SJS0AB730	SJS0AB770	-	-

Note: Above part numbers come without contacts; inquire within for "with contacts" part numbers  
 \* SJS870510 uses pin contacts; SJS870520 uses socket contacts

\*Available at extended lead time.

## Part Numbering (Push & Pull)



Contact Size	Contact Qty	Shell Size	Key	Color	Plug P/N	Receptacle
12	1	7	n/a	blue	SJS512100	SJS512200
12	1	7	n/a	red	SJS512110	SJS512210
16	1	6	n/a	blue	SJS716100	SJS716200
16	1	6	n/a	red	SJS716110	SJS716210
20	1	6	n/a	green	SJS720100	SJS720200
20	1	6	n/a	yellow	SJS720110	SJS720210
16	3	11	A	red	SJS816100	SJS816200
16	3	11	B	white	SJS816110	SJS816210
16	3	11	C	blue	SJS816120	SJS816220
20	3	8	A	red	SJS820100	SJS820200
20	3	8	B	white	SJS820110	SJS820210
20	3	8	C	blue	SJS820120	SJS820220

## Part Numbering (Accessories)



Shell Size	Strain Relief Single	Strain Relief Single 90°	Strain Relief Single 45°	Double Strain Relief	Double Side Tape Mount Cradle	Screw Mount Cradle	Tube Mount Cradle	Single Side Tape Tube Mount Cradle	Double Side Tape Tube Mount Cradle	Dummy Flanges	Hard Protective Caps
5	SJSA55000	SJSAA5100	SJSAA5200	SJSA56000	SJS257000	SJS257100	SJSA5V000	SJS5AV010	SJS5AV020	-	SJSA5B000
7	SJS450350	SJSA75100	SJSA75200	SJSA76000	SJS883000	SJS450250	SJSA7V000	SJSA7V010	SJSA7V020	SJS830220D	SJSA7B000
8	SJSA85000	SJSA85100	SJSA85200	SJSA86000	SJS445000	SJS450100	SJSA8V000	SJSA8V010	SJSA8V020	-	SJSA8B000
10	SJSA05000	SJSA05100	SJSA05200	SJSA06000	SJS991000	-	SJSA0V000	SJSA0V010	SJSA0V020	SJS0AA730D	SJSA0B000

# Contact Information: Machined and Stamped & Formed

Now with Quadrax & Fiber Optic (M29504) capability

<b>Shipping Format</b>	Loose (Tape & reel not included)
<b>Mating Cycles</b>	500
<b>Materials</b>	<b>Contact</b> Body: Copper Alloy
	<b>Hood</b> Stainless Steel
	<b>Sleeve</b> Stainless Steel

<b>Dimensions</b>	AS39029 Compatible
<b>Plating Options</b>	<b>Machined</b> Gold plate 50 microinches min over
	<b>Stamped &amp; Formed</b> Selective gold plate over engagement area 3-5 microinches thick over nickel underplate

## Contact Matrix

Contact Size	Contact Style	Available		Contact P/N		QPL Part No. (Machined Only)	Contact Retention	Crimp Tensile Strength
		Push-Pull	Twist-Lock	Machined	Stamped & Formed			
12	Pin	Yes	Yes	CNP058365	SCP058365	M39029/58-365	.012" [0,30mm] @ 30lbf [133N]	100lbf [445N]
	Socket	No	Yes	CNS057359	SCS057359	M39029/57-359		
	Socket-L	Yes	No	CNS056353	n/a	M39029/56-353		
16	Pin	Yes	Yes	CNP058364	SCP058364	M39029/58-364	.012" [0,30mm] @ 25lbf [111N]	40lbf [180N]
	Socket	No	Yes	CNS057358	SCS057358	M39029/57-358		
	Socket-L	Yes	No	CNS056352	n/a	M39029/56-352		
20	Pin	Yes	Yes	CNP058363	SCP058363	M39029/58-363	.012" [0,30mm] @ 20lbf [90N]	20lbf [90N]
	Socket	No	Yes	CNS057357	SCS057357	M39029/57-357		
	Socket-L	Yes	No	CNS056351	n/a	M39029/56-351		
22D	Pin	No	Yes	CNP058360	n/a	M39029/58-360	.012" [0,30mm] @ 10lbf [44N]	10 lbf [45N]
	Socket	No	Yes	CNS057354	n/a	M39029/57-354		

Contact Size	Wire Accommodations				Tool Information			
	Size (AWG)	Max Current Rating (A)	ØD Range	Strip Length	Basic Tool	Positioner	Insertion/Removal Tool	
12	12	23	.097 - .142" [2,46 - 3,61mm]	.209 - .240" [5,31 - 6,10mm]	M22520/1-01	M22520/1-04 (Yellow)	M81969/14-04	
	14	17						
16	16	13	.065 - .109" [1,65 - 2,77mm]	.209 - .240" [5,31 - 6,10mm]	M22520/1-01	M22520/1-04 (Blue)	M81969/14-03	
	18	10						
	20	7.5			M22520/7-01	M22520/7-04		
20	20	7.5	.040 - .083" [1,02 - 2,11mm]	.209 - .240" [5,31 - 6,10mm]	M22520/1-01	M22520/1-04 (Red)	M81969/14-11	
	22	5			M22520/2-01			M22520/2-10
	24	3			M22520/7-01			M22520/7-08
22D	22	5	.030 - .054" [0,76 - 1,37mm]	.141 - .172" [3,58 - 4,37mm]	M22520/2-01	M22520/2-06	M81969/14-01	
	24	3			M22520/7-01			M22520/7-06
	26	2						
	28	1.5						



# Amphenol Pcd Products



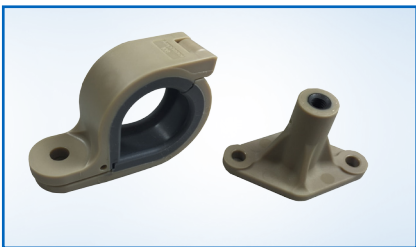
Backshells



Cable Solutions &  
Cable Adapters  
NEW



Relay Sockets



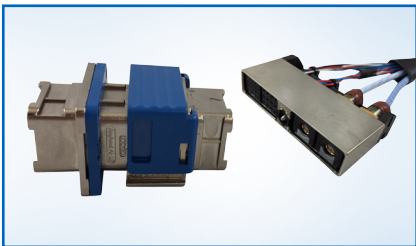
System  
Attachments



Luminus Series



Junction Modules



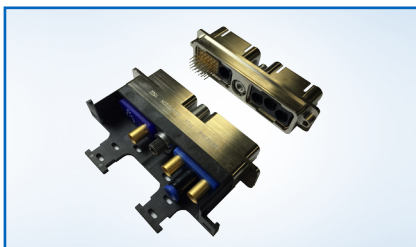
SIM



Pegasus Series  
NEW



Circular



EN4644



Rugged Solutions



Military Audio  
/Power



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».



## JONHON

«**JONHON**» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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