Amphenol®



LPT Series Connectors

Amphennol

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Company Introduction



Amphenol Industrial Operations

Amphenol Industrial Operations (AIO), a division of the Amphenol Corporation, is a prominent manufacturer of cylindrical connectors known around the world. Amphenol Industrial's product lines consist of rectangular, standard miniature, fiber optic, EMI/EMP filter, and a variety of special application connectors.

Manufacturing connectors since 1932, we take pride that the Amphenol Industrial Operations is the undisputed leader in interconnect systems for harsh environment applications. Innovations like our RADSOK® contact technology can provideroughly 50% more current through the same size pin. Connectors utilizing this RADSOK® technology will outperform similar products in the market hands down.

The Sidney, NY facility, nestled at the foothills of the Catskill Mountains, is over 307,000 square feet (28,521 m2). This complex houses over 1,000+employees incorporating state-of-the-art manufacturing technologies. The facility is bothISO9001 certified and qualified to MIL-STD-790 requirements.



Amphenol Technology (Zhuhai) Co., Ltd

Established in 2007, Amphenol Technology (Zhuhai) Co., Ltd. is a manufacturing facility for Amphenol Industrial Operations, which serves a number of industrial markets, included but not I i m i t e d to Factory Automation, Transportation, Heavy Equipment, Alternative Energy, Oil & Gas, Server/Data Command Power Distribution.

Amphenol Technology (Zhuhai) Co., Ltd. covers an area of 306,449 square feet (28,470m2) and is equipped with CNCs, plating, injection molding and assembly workshops. This plant specializes in the design and manufacturing of industrial connectors featuring high power, high density inserts, medium to high voltage electrical properties, and harsh environment applications.

Many of the products produced here have been certified by independent standards including UL, IEC/TUV, ATEX, IECEx and MA. The facility is also certified to ISO 9001, ISO 14001 and TS16949.

LPT Series Product Introduction







What are LPT Series Connectors?

The LPT Series is based on the MIL-C-26482 Series I and Amphenol's original PT Series. Cost effective without sacrificing quality. This series is a cylindrical bayonet connector constructed with an aluminum shell and features stamped and formed crimped contacts.

Features and Benefits

- · Aluminum shell construction provides high strength while being light in weight
- Multiple shell plating options (up to 500H salt spray protection)
- Stamped and formed crimp contacts with a 3 tine retention system
- · Machined contacts available
- · Off the shelf availability
- · Quick positive bayonet coupling
- 5 key/keyway mating
- Ingress protection up to IP67 and IP69K when in the mated condition
- · High shock and high vibration resistance
- Operating temperature range: -40°C to 125°C
- Intermateable with Amphenol's PT series
- PT standard shells have years of proven performance in the field
- UL/TUV certifications in process

Structure Features

- 5 Shell Styles:
- 1 Box mounting receptacle
- ② Jam nut receptacle
- 3 Straight plug
- 4 Wall mounting receptacle
- (5) Cable connecting receptacle
- 3 Connector Finishes Available:
- 1 Black zinc (RoHS)
- ② Nickel (RoHS)
- ③ Gray zinc nickel(RoHS)

4 Alternate Positioning : Insert rotation W,X,Y,Z

Crimp Contact Size:

① #12: 14-12 (2.00-3.50mm²)

2 #16: 18-16 (0.75-1.50mm²)

(3) #20: 22-20 (0.34-0.50mm²)

④ Contact our sales team if you need RADSOK® or alternate size contact options

Market Applications

Widely used in general and harsh environments, the LPT Series is suitable for markets including but not limited to the following:

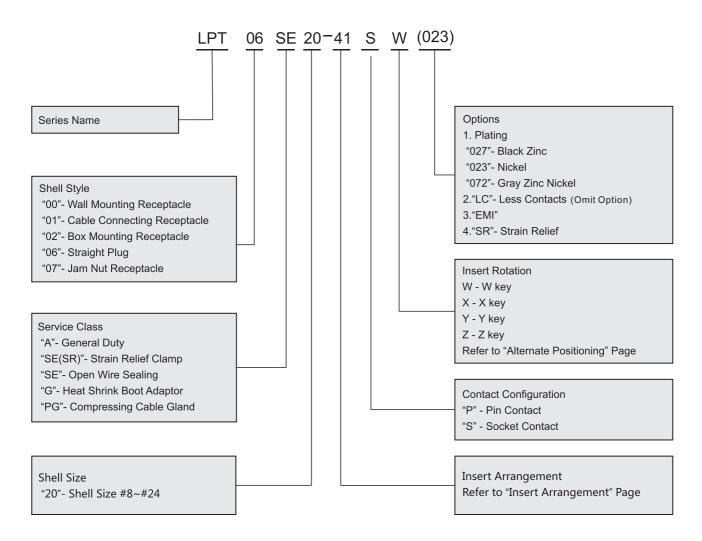
- Industrial Instrumentation
- Security
- Telecommunications
- Robotics/Factory Automation
- Process Control
- Energy Storage
- Hybrid/Electric Vehicle
- Heavy Equipment
- Rail Mass Transit



Technical Data

Shell Material	Aluminum			
Insert Material		Plastic		
	Material	Copper alloy		
Contact	Plating	Tin/Nickel/Gold plated		
	Termination Crimp			
Temperature Range		-40°C to +125°C		
Ingress Protection	IP67&IP69K in the mated condition A basic dust cover or an IP67 compliant cap are available for protection in the unmated condition			
	20# contact 5A			
Test Current		16# contact 13A		
	12# contact 23A/35A with RADSOK®			
Recommended	I# 250V			
Operating Voltage	Π# 500V			
	I# 1500V			
Test Voltage AC		Π# 2300V		
Mating Cycles		500 Cycles		
Salt Spray Test	1. Black Zinc (non-conductive): 48H 2. Nickel (conductive): 48H 3. Gray Zinc Nickel (conductive): 500H			
Vibration	In accordance with test procedure EIA-364-28			
Thermal Shock	In accordance with test procedure EIA-364-32			
RoHS		Compliant		

How to Order



Note: Contacts must be ordered separately, see page 6 thru 7 $\,$

Shell Type

Wall Mounting Receptacle LPT00



Cable Connecting Receptacle LPT01



Box Mounting Receptacle LPT02



Straight Plug LPT06



Jam Nut Receptacle LPT07



Crimp Contact Ordering Information





Sizo	Current	DIN/SOCKET	V	Vire	Plating	Part No	Pcs/
Size	(A)	PIN/SOCKET	AWG	mm ²	Fialling	Part No	Reel
					Tin plating	LPTC-SF-20P-20-1	
					Ni plating	LPTC-SF-20P-20-2	
		PIN	22-20	0.34-0.50	Gold flash	LPTC-SF-20P-20-3	
					10u"gold plating	LPTC-SF-20P-20-4	
#00	_				30u"gold plating	LPTC-SF-20P-20-5	
#20	5				Tin plating	LPTC-SF-20S-20-1	
					Ni plating	LPTC-SF-20S-20-2	
		SOCKET	22-20	0.34-0.50	Gold flash	LPTC-SF-20S-20-3	
					10 u"gold plating	LPTC-SF-20S-20-4	
					30 u"gold plating	LPTC-SF-20S-20-5	
					Tin plating	UPTC-SF-16P-16-1	
					Ni plating	UPTC-SF-16P-16-2	
			16-18	0.75-1.50	Gold flash	UPTC-SF-16P-16-3	
					10u"gold plating	UPTC-SF-16P-16-4	3000
		DIN			30u"gold plating	UPTC-SF-16P-16-5	
	13	PIN -	20-22		Tin plating	UPTC-SF-16P-20-1	
					Ni plating	UPTC-SF-16P-20-2	
				0.34-0.50	Gold flash	UPTC-SF-16P-20-3	
					10u"gold plating	UPTC-SF-16P-20-4	
"40					30u"gold plating	UPTC-SF-16P-20-5	
#16		SOCKET -	16-18	0.75-1.50	Tin plating	UPTC-SF-16S-16-1	
					Ni plating	UPTC-SF-16S-16-2	
					Gold flash	UPTC-SF-16S-16-3	
					10u"gold plating	UPTC-SF-16S-16-4	
					30u"gold plating	UPTC-SF-16S-16-5	
				0.34-0.50	Tin plating	UPTC-SF-16S-20-1	
					Ni plating	UPTC-SF-16S-20-2	
			20-22		Gold flash	UPTC-SF-16S-20-3	
					10u"gold plating	UPTC-SF-16S-20-4	
					30u"gold plating	UPTC-SF-16S-20-5	
					Tin plating	LPTC-SF-12P-12-1	
					Ni plating	LPTC-SF-12P-12-2	
		PIN	12~14	2.00-3.50	Gold flash	LPTC-SF-12P-12-3	
					10u"gold plating	LPTC-SF-12P-12-4	
#40	23				30u"gold plating	LPTC-SF-12P-12-5	1000
#12	23				Tin plating	LPTC-SF-12S-12-1	
					Ni plating	LPTC-SF-12S-12-2	
		SOCKET	12~14	2.00-3.50	Gold flash	LPTC-SF-12S-12-3	
					10u"gold plating	LPTC-SF-12S-12-4	
					30u"gold plating	LPTC-SF-12S-12-5	

Machined Contact Ordering Information





Cina	Current	DINICOCKET	Wire		Plating	Don't No	
Size	(A)	PIN/SOCKET	AWG	mm ²	Flating	Part No	
					Tin plating	LPTC-MA-20P-20-1	
					Ni plating	LPTC-MA-20P-20-2	
		PIN	22-20	0.34-0.50	Gold flash	LPTC-MA-20P-20-3	
					10u"gold plating	LPTC-MA-20P-20-4	
#20	5				30u"gold plating	LPTC-MA-20P-20-5	
#20	٥				Tin plating	LPTC-MA-20S-20-1	
					Ni plating	LPTC-MA-20S-20-2	
		SOCKET	22-20	0.34-0.50	Gold flash	LPTC-MA-20S-20-3	
					10 u"gold plating	LPTC-MA-20S-20-4	
					30 u"gold plating	LPTC-MA-20S-20-5	
					Tin plating	UPTC-MA-16P-16-1	
					Ni plating	UPTC-MA-16P-16-2	
			16-18	0.75-1.50	Gold flash	UPTC-MA-16P-16-3	
					10u"gold plating	UPTC-MA-16P-16-4	
		PIN			30u"gold plating	UPTC-MA-16P-16-5	
	13	PIN		0.34-0.50	Tin plating	UPTC-MA-16P-20-1	
			20-22		Ni plating	UPTC-MA-16P-20-2	
					Gold flash	UPTC-MA-16P-20-3	
					10u"gold plating	UPTC-MA-16P-20-4	
#16					30u"gold plating	UPTC-MA-16P-20-5	
#10		SOCKET -			Tin plating	UPTC-MA-16S-16-1	
					Ni plating	UPTC-MA-16S-16-2	
			16-18	0.75-1.50	Gold flash	UPTC-MA-16S-16-3	
			20-22		10u"gold plating	UPTC-MA-16S-16-4	
					30u"gold plating	UPTC-MA-16S-16-5	
				0.34-0.50	Tin plating	UPTC-MA-16S-20-1	
					Ni plating	UPTC-MA-16S-20-2	
					Gold flash	UPTC-MA-16S-20-3	
					10u"gold plating	UPTC-MA-16S-20-4	
					30u"gold plating	UPTC-MA-16S-20-5	
					Tin plating	LPTC-MA-12P-12-1	
					Ni plating	LPTC-MA-12P-12-2	
		PIN	12~14	2.00-3.50	Gold flash	LPTC-MA-12P-12-3	
					10u"gold plating	LPTC-MA-12P-12-4	
#12	23				30u"gold plating	LPTC-MA-12P-12-5	
					Tin plating	LPTC-MA-12S-12-1	
					Ni plating	LPTC-MA-12S-12-2	
		SOCKET	12~14	2.00-3.50	Gold flash	LPTC-MA-12S-12-3	
					10u"gold plating	LPTC-MA-12S-12-4	
					30u"gold plating	LPTC-MA-12S-12-5	

Service Classes

The LPT connector is available in the following certified service classes:



"A"	General duty: back shell is threaded for conduit attachment of MS3057 cable clamp.
"SE(SR)"	Strain relief clamp - environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support.
"SE"	Open wire sealing environmental resistant, with a nut and grommet for moisture proofing individual wires.
"G"	Heat shrink boot adaptor- back shell for heat shrink boot, with optional grommet for moisture proofing individual wires.
"PG"	Compressing cable gland for moisture proofing jacketed cables with option of EMI shielding function.

Alternate Positioning

Alternate Positioning

To avoid cross-mating problems in applications requiring the use of more than one miniature cylindrical connector of the same size and arrangement, alternate insert rotations are available as indicated in the accompanying chart.

As shown in the diagram at the right, the front face of the pin insert is rotated within the shell in a clockwise direction front the normal shell key. The socket insert would be rotated counterclockwise the same number of degrees in respect to the normal shell key.





Position W

Position X





Position Y

Position Z

Insert Rotation						
	Insert	Degrees				
Shell Size	Arrangement	W	х	Y	z	
8	8-4	45	97	184	-	
10	10-2	45	90	315		
10	10-6	90	-	-	-	
12	12-4	38	-	-	-	
12	12-8	90	112	203	292	
12	12-10	60	155	270	295	
14	14-5	40	92	184	273	
14	14-8	48	162	189	312	
14	14-19	30	165	315		
14	14-AA	45	-	-	-	

Insert Rotation					
	Insert	Degrees			
Shell Size	Arrangement	W	х	Y	z
16	16-8	54	152	180	331
16	16-26	60	-	275	338
18	18-5	55	97	263	315
18	18-8	180	-	-	ı
18	18-11	62	119	241	340
18	18-32	85	138	222	265
20	20-16	238	318	333	347
20	20-41	45	126	225	-
22	22-55	30	142	226	314
24	24-31	90	225	255	-

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Insert Arrangements

Pole	4	2	6	4
Insert Arrangement		۵		
	8-4	10-2	10-6	12-4
Service Rating	I	I	I	I
Total Contacts	4	2	6	4
Contact No.	20	16	20	16

Pole	8	10	5	8
Insert Arrangement		0000 0000 0000		
	12-8	12-10	14-5	14-8
Service Rating	I	I	П	I
Total Contacts	8	10	5	6 2
Contact No.	20	20	16	20 12

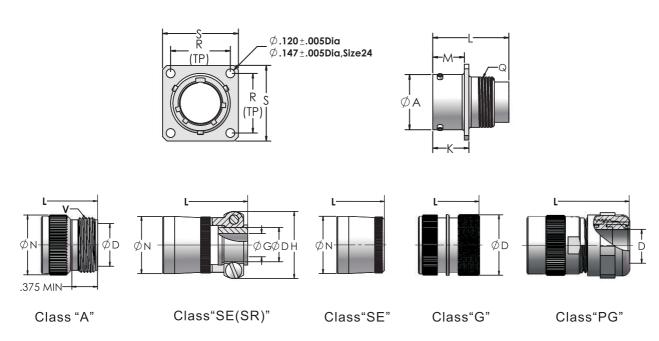
Pole	19	4	8	26
Insert Arrangement				
	14-19	14-AA	16-8	16-26
Service Rating	I	I	П	I
Total Contacts	19	4	8	26
Contact No.	20	12	16	20

Insert Arrangements

Pole	5	8	11	32
Insert Arrangement				
	18-5	18-8	18-11	18-32
Service Rating	П	I	П	I
Total Contacts	5	8	11	32
Contact No.	12	12	16	20

Pole	16	41	55	31
Insert Arrangement				M N A B B C C S C C C C C C C C C C C C C C C
	20-16	20-41	22-55	24-31
Service Rating	П	I	I	I
Total Contacts	16	41	55	31
Contact No.	16	20	20	16

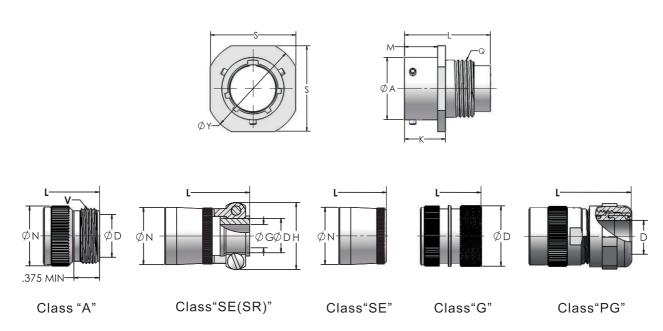
LPT00 (Wall Mounting Receptacle & Back Shells)



		ptacle :View			Recept	acle sid	e view			CL	CLASS "SE(SR)"			
			Α	М	К		L	Q	D	L	Ν	V	D	G
Shell size	R	S	+. 001	+. 010	+. 020	M	ax.	Thread	Min.	Max.	Max.	Thread	Min.	Max.
			005	000	010	PIN	SOCKET	Class 2A	IVIIII.	IVIAX.		Class A	IVIIII.	IVIAX.
8	.594	.812	.473	.431	.493	1.270	1.056	.4375-28UNEF	.297	1.633	.590	.5000-28UNEF	.240	.125
10	.719	.938	.590	.431	.493	1.270	1.056	.5625-24NEF	.421	1.633	.717	.6250-24NEF	.302	.188
12	.812	1.031	.750	.431	.493	.127	1.056	.6875-24NEF	.546	1.633	.834	.7500-20UNEF	.428	.312
14	.906	1.125	.875	.431	.493	.127	1.056	.8125-20UNEF	.663	1.633	.970	.8750-20UNEF	.552	.375
16	.969	1.219	1.000	.431	.493	1.270	1.056	.9375-20UNEF	.787	1.633	1.088	1.0000-20UNEF	.615	.500
18	1.062	1.312	1.125	.431	.493	1.270	1.056	1.0625-18NEF	.879	1.633	1.216	1.1875-18NEF	.740	.625
20	1.156	1.438	1.250	.556	.650	1.332	1.164	1.1875-18NEF	1.014	1.674	1.332	1.1875-18NEF	.740	.625
22	1.250	1.562	1.375	.556	.650	1.332	1.164	1.3125-18NEF	1.134	1.674	1.460	1.4375-18NEF	.928	.750
24	1.375	1.688	1.500	.589	.683	1.332	1.164	1.4375-18NEF	1.259	1.674	1.585	1.4375-18NEF	.990	.800

		CLASS	"SE(SR))"	CLASS "SE"			CLAS	SS "G"	CLASS "PG"			
	Н		L	N	L		N	L	N	N	D	L	
Shell size	Max.	Max.		Max.	М	ax.	Max.	Max.	Max.	REF	Cable range	REF	
	IVIAX.	PIN	SOCKET	Wax.	PIN	SOCKET	IVICA.	Wax.	, max.	'\'	(mm)	,	
8	.812	2.354	2.202	.550	1.746	1.538	.560	1.768	.620	.571	3-6.5	2.309	
10	.875	2.354	2.202	.675	1.746	1.538	.685	1.768	.730	.814	4-8	2.309	
12	1.000	2.354	2.202	.803	1.746	1.538	.813	1.768	.939	.814	4-8	2.309	
14	1.125	2.354	2.202	.920	1.746	1.538	.930	1.768	.971	.930	5-10	2.309	
16	1.188	2.486	2.272	1.047	1.746	1.538	1.057	1.768	1.179	1.120	10-14	2.309	
18	1.438	2.486	2.272	1.165	1.746	1.750	1.175	1.768	1.266	1.180	13-18	2.309	
20	1.438	2.684	2.470	1.290	1.918	1.750	1.301	1.980	1.427	1.296	13-18	2.385	
22	1.625	2.684	2.470	1.418	1.918	1.750	1.430	1.980	1.522	1.496	18-25	2.385	
24	1.719	2.684	2.470	.1.543	1.918	1.750	1.555	1.980	1.644	1.562	18-25	2.385	

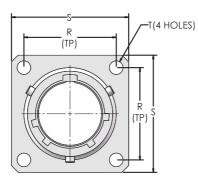
LPT01 (Cable Connecting Receptacle & Back Shells)

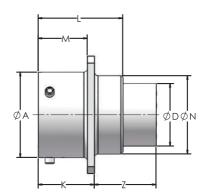


	Rece _l Front	ptacle :View			Recept	acle sid	e view			CL		CLASS "SE(SR)"		
			A M K L Q		D	L	Ν	V	D	G				
Shell size	S ±.020	±.020	+. 001	+. 010	+. 020	M	ax.	Thread	Min.	Max.	Max.	Thread	Min.	Max.
			005	000	010	PIN	SOCKET	Class 2A		IVIAX.	IVIAX.	Class A	IVIIII.	IVIAA.
8	.812	.938	.473	.400	.494	1.270	1.056	.4375-28UNEF	.297	1.633	.590	.5000-28UNEF	.240	.125
10	.938	1.062	.590	.400	.494	1.270	1.056	.5625-24NEF	.421	1.633	.717	.6250-24NEF	.302	.188
12	1.031	1.156	.750	.400	.494	.127	1.056	.6875-24NEF	.546	1.633	.834	.7500-20UNEF	.428	.312
14	1.125	1.250	.875	.400	.494	.127	1.056	.8125-20UNEF	.663	1.633	.970	.8750-20UNEF	.552	.375
16	1.219	1.344	1.000	.400	.494	1.270	1.056	.9375-20UNEF	.787	1.633	1.088	1.0000-20UNEF	.615	.500
18	1.312	1.438	1.125	.400	.494	1.270	1.056	1.0625-18NEF	.879	1.633	1.216	1.1875-18NEF	.740	.625
20	1.438	1.562	1.250	.535	.650	1.332	1.164	1.1875-18NEF	1.014	1.674	1.332	1.1875-18NEF	.740	.625
22	1.562	1.688	1.375	.535	.650	1.332	1.164	1.3125-18NEF	1.134	1.674	1.460	1.4375-18NEF	.928	.750
24	1.688	1.812	1.500	.568	.683	1.332	1.164	1.4375-18NEF	1.259	1.674	1.585	1.4375-18NEF	.990	.800

		CLASS	"SE(SR))"	CLASS "SE"			CLAS	SS "G"	CLASS "PG"			
	Н		L	N	L		N	L	Ν	N	D	L	
Shell size	Max.	Max.		Max.	М	ax.	Max.	Max.	Max.	REF	Cable range	REF	
	IVIGA.	PIN	SOCKET	WIGA.	PIN	SOCKET	Wida.	IVIGA.	IVIGA.	IXLI	(mm)	INEI	
8	.812	2.354	2.202	.550	1.746	1.538	.560	1.768	.620	.571	3-6.5	2.309	
10	.875	2.354	2.202	.675	1.746	1.538	.685	1.768	.730	.814	4-8	2.309	
12	1.000	2.354	2.202	.803	1.746	1.538	.813	1.768	.939	.814	4-8	2.309	
14	1.125	2.354	2.202	.920	1.746	1.538	.930	1.768	.971	.930	5-10	2.309	
16	1.188	2.486	2.272	1.047	1.746	1.538	1.057	1.768	1.179	1.120	10-14	2.309	
18	1.438	2.486	2.272	1.165	1.746	1.750	1.175	1.768	1.266	1.180	13-18	2.309	
20	1.438	2.684	2.470	1.290	1.918	1.750	1.301	1.980	1.427	1.296	13-18	2.385	
22	1.625	2.684	2.470	1.418	1.918	1.750	1.430	1.980	1.522	1.496	18-25	2.385	
24	1.719	2.684	2.470	1.543	1.918	1.750	1.555	1.980	1.644	1.562	18-25	2.385	

LPT02 (Box Mounting Receptacle)





	Red	ceptacle Fro	nt View	Receptacle side view										
			Т	Α	D	К	L	М	N	2	Z			
Shell size	R	S	±.005	+. 001	Mov	+. 020	May	+. 020	Dia.	M	ax.			
			±.005	005	Max.	010	Max.	010	Max.	PIN	SOCKET			
8	.594	.812	.120	.473	.326	.493	.825	.431	.449	.777	.563			
10	.719	.938	.120	.590	.443	.493	.825	.431	.573	.777	.563			
12	.812	1.031	.120	.750	.557	.493	.825	.431	.699	.777	.563			
14	.906	1.125	.120	.875	.682	.493	.825	.431	.823	.777	.563			
16	.969	1.219	.120	1.000	.807	.493	.825	.431	.949	.777	.563			
18	1.062	1.312	.120	1.125	.908	.493	.825	.431	1.073	.777	.563			
20	1.156	1.438	.120	1.250	1.033	.650	1.076	.556	1.199	.682	.514			
22	1.250	1.562	.120	1.375	1.158	.650	1.076	.556	1.323	.682	.514			
24	1.375	1.688	.147	1.500	1.283	.683	1.109	.589	1.449	.649	.481			

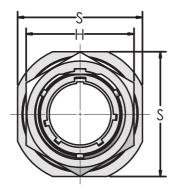
LPT06 (Straight Plug & Back Shells)

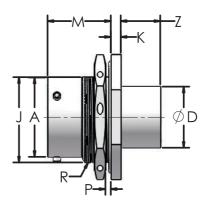


	Plug Front View		Pl	ug Side View				CL		CLASS "SE(SR)"		
	S	L	М	Q	Z		D	L	Ν	V	D	G
Shell size	Max.	Max.	Max.	Thread	M	ax.	Min.	May	Max.	Thread		May
	IVIAA.	IVIAA.	IVIAX.	Class 2A	PIN	SOCKET	IVIIII.	Max.	IVIAX.	Class A	Min.	Max.
8	.750	.928	.326	.4375-28UNEF	.324	.110	.326	1.615	.590	.5000-28UNEF	.240	.125
10	.859	.928	.443	.5625-24NEF	.324	.110	.443	1.615	.717	.6250-24NEF	.302	.188
12	1.031	.928	.557	.6875-24NEF	.324	.110	.557	1.615	.834	.7500-20UNEF	.428	.312
14	1.156	.928	.682	.8125-20UNEF	.324	.110	.682	1.615	.970	.8750-20UNEF	.552	.375
16	1.281	.928	.807	.9375-20UNEF	.324	.110	.807	1.615	1.088	1.0000-20UNEF	.615	.500
18	1.391	.928	.908	1.0625-18NEF	.324	.110	.908	1.615	1.216	1.1875-18NEF	.740	.625
20	1.531	1.000	1.033	1.1875-18NEF	.248	.080	1.033	1.594	1.332	1.1875-18NEF	.740	.625
22	1.656	1.000	1.158	1.3125-18NEF	.248	.080	1.158	1.594	1.460	1.4375-18NEF	.928	.750
24	1.776	1.000	1.283	1.4375-18NEF	.248	.080	1.283	1.594	1.587	1.4375-18NEF	.990	.800

		CLASS	"SE(SR)"	CLASS "SE"			CLAS	SS "G"	CLASS "PG"			
	Н		L	N	N		L	L	N	N	D	L	
Shell size	Max.	Max.		Max.	Max.	M	lax.	Max.	Max.	REF	Cable range	REF	
Max.		Pin	Socket	iviax.	IVIax.	PIN	SOCKET	iviax.	iviax.	KEF	(mm)	KEF	
8	.812	2.336	2.122	.550	.560	1.728	1.520	1.750	.620	.571	3-6.5	2.291	
10	.875	2.336	2.122	.675	.685	1.728	1.520	1.750	.730	.814	4-8	2.291	
12	1.000	2.336	2.122	.803	.813	1.728	1.520	1.750	.939	.814	4-8	2.291	
14	1.125	2.336	2.122	.920	.930	1.728	1.520	1.750	.971	.930	5-10	2.291	
16	1.188	2.468	2.254	1.047	1.057	1.728	1.520	1.750	1.179	1.120	10-14	2.291	
18	1.438	2.468	2.254	1.165	1.175	1.728	1.520	1.750	1.266	1.180	13-18	2.291	
20	1.438	2.604	2.390	1.290	1.301	1.838	1.670	1.900	1.427	1.296	13-18	2.305	
22	1.625	2.604	2.390	1.418	1.430	1.838	1.670	1.900	1.522	1.496	18-25	2.305	
24	1.719	2.604	2.390	1.543	1.555	1.838	1.670	1.900	1.644	1.562	18-25	2.305	

LPT07 (Jam Nut Receptacle)





	Re	eceptacle I	Front View			Receptacle side view									
			А	D	J Flat	К		P Panel thickness		R		Z			
Shell size	H ±.016	S	+. 001	Dia.	+.000	+. 011	М	Min.	Max.	Thread	Max.				
			005	Max.	010	010			IVIAA.	Class 2A UNEF	PIN	SOCKET			
8	.750	.938	.473	.326	.530	.125	.696	.062	.125	.5625-24	.450	.235			
10	.875	1.062	.590	.443	.655	.125	.696	.062	.125	.6875-24	.450	.235			
12	1.062	1.250	.750	.557	.818	.125	.696	.062	.125	.8750-20	.450	.235			
14	1.188	1.375	.875	.682	.942	.125	.696	.062	.125	1.0000-20	.450	.235			
16	1.312	1.500	1.000	.807	1.066	.125	.696	.062	.125	1.1250-18	.450	.235			
18	1.438	1.625	1.125	.908	1.191	.125	.696	.062	.125	1.2500-18	.450	.235			
20	1.562	1.812	1.250	1.033	1.316	.156	.884	.062	.250	1.3750-18	.292	.124			
22	1.688	1.938	1.375	1.158	1.441	.156	.884	.062	.250	1.5000-18	.292	.124			
24	1.816	2.062	1.500	1.283	1.566	.156	.917	.062	.250	1.6250-18	.260	.092			

Assembly Instructions (Contact)

1. Stripping (20# AWG LPT series contact)

1) Tooling: Wire cutting machine

2) Wire: 20~22 AWG wire

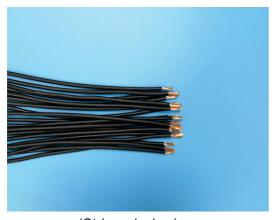
3) Cut wire according to length requirement, strip insulation, recommended length 4.0~4.5mm



(Wire cutting machine)

2. Contact Crimping

- 1) Tooling: Crimping machine
- 2) Prepare stripped wire and contact
- 3) Crimp contact to wire following the IPC-A-620 standard



(Stripped wire)

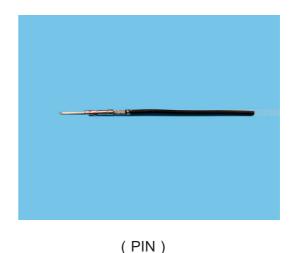


(Crimping machine)

3. Crimped Contact



(SOCKET)



Assembly Instructions (Receptacle)

Receptacle Assembly



1. Take your wire with crimped contact



4. Insert locator set to the proper position on the front side of the connector



2.Insert crimped contact into corresponding insert location



5. Push locator to bottom of shell front



3. Personnel inserting contacts will normally "feel" the contact reach its fully seated position. Visually check the mating ends of the connector to be sure all contacts are properly inserted to the same depth (a slight pull to confirm contact retention can also be implemented)

%Locator used for pin contact Receptacle/Plug

Receptacle Extraction



1.Prepare insertion/ extraction tool



2. Hook groove of locator with the tool to pull out locator from connector



3.Insert tool over appropriate contact for removal



4. Push contact extraction tool to bottom



5. Apply pressure on the handle end of the tool and pull the contact out of the connector rear

Assembly Instructions (Plug)

Plug Assembly



1.Assemble coupling nut with plug shell



2.Prepare wire with crimped contact



3. Grip contact and push through the grommet



4. Insert at least 2 cables to fix the position for the remainder of the contacts



5. Personnel inserting contacts will normally feel the contact reach its fully seated position



6. Push the grommet so it rests against the insulator face on the rear of the shell



7. Continue to seat the remainder of the contacts



8. Re-check to make sure the grommet is against the insulator face after all contacts are seated



9. Assemble sleeve and o-ring into the rear nut



10.Feed wires through nut



11.Connect plug to receptacle for stability and move backshell up to rear threads



12.Thread and tighten backshell then unmate from receptacle

Amphenol

Assembly Instructions (Plug)

Plug Contact Extraction



1.Mate plug to receptacle for stability



2.Loosen and remove backshell from plug



3.Place insertion/extraction tool over desired contact



4.Push tool until it bottoms out



5. Apply pressure on the handle end of the tool and pull the contact out of the connector rear

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