Amphenol SOCAPEX



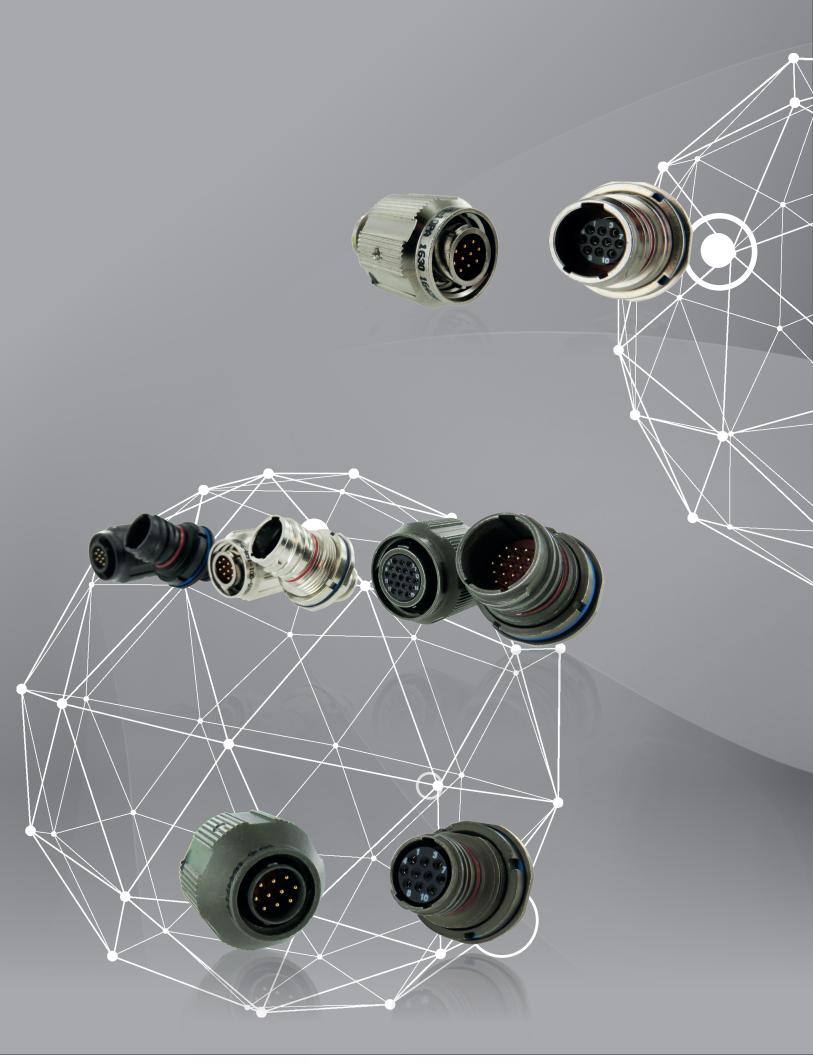


TABLE OF CONTENT

Assembly instruction

How to order 2M801 Dual-Start

2M805 Tri-Start

Backshells and accessories

2M801 Dual-Start Protective caps

2M805 Tri-Start Protective caps

About Amphenol Socapex	4
Complete 2M Series by Amphenol	8
2M top runners for Europe by Amphenol Socapex	9
	,
TECHNICAL CHARACTERISTICS	10
Markets and applications	10
General characteristics	11
Mechanical characteristics	11
Connector weight	12
Technical characteristics	13
Electrical characteristics	14
Insert arrangements	15
2M805 Tri-Start	19
Overall dimensions	19
Panel drilling	22
Protective caps	23
2M801 Dual-Start	25
Overall dimensions	25
Panel drilling	26
Protective caps	29
	·
Accessories	30
Contact & tool	30

31

34

37

39

ABOUT AMPHENOL SOCAPEX



Proven excellence in interconnect solutions

Since 1947, Amphenol Socapex has prescribed, designed and manufactured reliable and innovative interconnection solutions for harsh environments, specializing in standard and customized electrical and fiber optic connectors, contacts, accessories and cabling solutions.

Located in the Mont Blanc region of France and Pune in India, Amphenol Socapex has a presence in over 100 countries around the world.

Amphenol Socapex is part of the international Amphenol Corporation.



600+ employees



Net Sales 2017: **65.3 M€** 64% Export - 36% France



Two facilities : **Thyez** (France), **Pune** (India)

Our history



- Socapex creation in Suresnes, France
- 1st radio connector

1956-57



- Manufacturing unit in Cluses (74)
 France
- Thomson-CSF becomes primary shareholder

Early 1960's



- 1st board level connectors: HE8- 1st "licence Bendix" manufactured
- connectors
 SL Series launch

1973



- New factory 13 000 m² in Thyez (74) France with 250 people



1975

- Production of 38999 connectors

Today and tomorrow ...



New technologies:

Advanced Materials (composite)

Miniaturization

Power

High-speed signals

Rugged Ethernet

Fiber optics

ROHS solutions

Amphenol SOCAPEX

INTERNATIONAL EXPERTISE



Our expertise has no boundaries

Integrated Production in France & India

- 11 000 m² manufacturing capacity on 2 sites
- Design centers in France and India
- State-of-the-art manufacturing technology



Our markets



Military

Communication Systems - Radios - C4ISR / Ground vehicles - Vetronics / Marine / Missiles



Aviation

Commercial & military / Avionics / Engines / Landing gear / Actuators

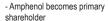


Industrial

Oil & Gas / Railways / Stage lighting

1986 1995-96 2004 2005 2010's







- Expanded Beam connector CTOS launch

- Headquarters transferred to Thyez



- RJ Field launch, "Award Electronica"



- Opening of manufacturing site in



- LuxBeam™ and HDAS launch

Today and tomorrow ...



Sustainable development:

Recycling

Respect for nature and the environment

Waste Management

Optimization of natural resources

Amphenol SOCAPEX

PRODUCING FASTER, SMALLER, STRONGER CONNECTORS...



Technologies & innovation



Engineering Laboratory for product testing and qualification, product expertise and metrology

- Mechanical and electrical skills
- RF and fiber optics expertise



Strong expertise in high-speed signals

- 3D EM simulation software & EM models
- Time Domain and frequency domain (VNA 20GHz, TDR and eye diagram)



Focus on materials expertise and manufacturing techniques to produce faster, smaller and stronger products

- 3D CAD mechanical software, simulation & analysis
- Disruptive metal alloys, additive manufacturing



Sustainable environment approach, with pro-active management of regulations (REACH / RoHS / Conflict minerals...)

- New materials development, plating, and suitable processes
- Recycling and rational resources consumption

Our workshops

Our workshops located in France & India provide consistent quality adapted to your volume requirements.

Molding: Solid expertise in thermoplastic elastomer and thermoset molding

Machining: Manufacturing of cylindrical shells from 10 to 90 mm in diameter and rectangular shells

Screw Machining: Cylindrical production parts up to 10 mm in diameter

Plating: Plating with cadmium, nickel, electroless nickel, silver, black zinc nickel, gold

Assembly: Sub-assembly, harnessing, cabling, bonding and marking for small & large volumes

Our certifications









Product certifications: MIL-DTL38999, EN3645, EN3155, VG

Our memberships











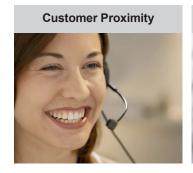
Member of CMG (Connecting Manufacturing Group) Consortium

DELIVERING GREAT CUSTOMER EXPERIENCE



▶ We have a strong reputation for helping customers solve their toughest challenges. This approach of serving your needs is ingrained in our company – from our sales team to our product development engineers.

A partner you can trust









Buy our solutions

You can access our solutions through our global network of sales offices or through our distributors.

Field Sales Team:

- 12 in France
- 15 in Europe
- 100+ in North America and rest of the world.
- 5 Business Development Managers supporting local sales force Europe, North America and the rest of the world

Technical Support & Multilingual Customer Service:

14 people

Worldwide Distribution Network:

Including qualified distributors (QPL approved) for assembling : MIL-DTL-38999, PT/451/VG95328 & Fiber Optics connectors



COMPLETE 2M SERIES BY AMPHENOL

Selection table











SERIES	2M805	2M804	2M803	2M801
Туре	Tri-Start ACME Thread	Push-Pull	Bayonet	Dual-Start ACME Thread
Description	"Anti-Decoupling" ratchet mechanism and ground spring for military airframes and avionics boxes. Fast mating	Breakaway connector for headsets and tactical equip- ment. Gold-plated spring for long mating life and superior EMI shielding.	Quick-mating, light duty, general purpose. Not rated for immersion, 50 milliohms shell-to-shell resistance.	More rugged keys and threads. Faster mating.
Contacts	1 to 130	1 to 85	1 to 55	1 to 130
Coupling	Tri-Start Thread	Push, Pull Quick-Disconnect	1/4 turn lock Bayonet	Threaded Coupling with 1 1/2 Turns to Full Mate
Water immersion, mated	MIL-STD-810 Method 512 1 Meter for 1 Hour	MIL-STD-810 Method 512 1 Meter for 1 Hour	Splashproof	MIL-STD-810 Method 512 1 Meter for 1 Hour
EMI Shielding	Excellent	Excellent	Fair	Very Good
Vibration and shock	43.9 g's Random Vibration, Sine Vibration 60 g; 300 g's Shock	37 g's Random Vibration; 300 g's Shock	37 g's Random Vibration; 300 g's Shock	43.9 g's Random Vibration, Sine Vibration 60 g; 300 g's Shock
Mating cycles	500 Cycles	2000 Cycles	1000 Cycles Aluminum 2000 Cycles Stainless Steel	2000 Cycles (-16 Plugs) 500 Cycles (-26 Plugs)
Electrical performance	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC

2M TOP RUNNERS FOR EUROPE BY AMPHENOL SOCAPEX

2M Micro Miniature connectors Series for Europe

By Amphenol, the 2M connector series has been, since years, a flagship product with huge attends from our customers, especially for new design projects. First developed by our sister company, Amphenol Aerospace Operation, popularized all around the world, Amphenol Socapex is now taking over the charge of this product range for the European market.

The 2M connector series is very well adapted for new design which require smaller, and lighter connectors with less than half of size and weight than usual military connectors. Developed specially for the needs of the military and aviation markets, the 2M connector is ideally suited to applications such as armored vehicles, data acquisition equipment, aeroplanes, helicopters, avionic calculators, missiles and drones where electrical performance, miniaturization and weight reduction are essential.

Amphenol Socapex's main goal is the satisfaction of our clients providing the same services than the standard MIL-DTL-38999 series from Amphenol in terms of price and lead time. In this sense, we established the selection of more than 600 "Top Runner" for our customers in Europe, including 805 and 801 series corresponding to the Tri-start and Dual-start series, with 9 different arrangements and 3 platings. These configurations are the most common on the market including plugs, jam nut and square flange receptacles, both with integrated backshell or also receptacles for soldering version on PCB. Obviously all corresponding accessories are also available as caps, shrink boots or tools.

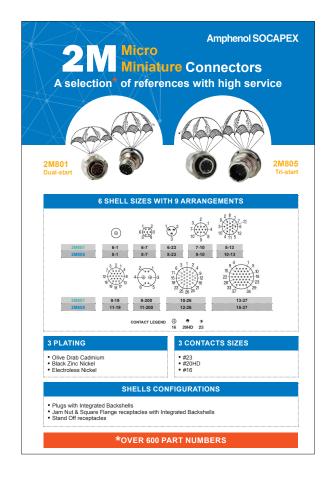
New design project?



Need of MINIATURIZATION and WEIGHT SAVING?



Need of GOOD PRICE, PERFECT SERVICE and FAST DELIVERY?



GENERAL CHARACTERISTICS

Markets and applications



Military vehicules

Vetronics Video Battlefield Communication systems Threat detection systems





Commercial Avionics & Airframe

IFE in Flight Entertainment
Cockpit
None compressed high resolution video





Military Avionics & Airframe

Radars Display unit Flight control system Video





C4ISR

Threat detection system Soldier wearable equipment Rugged computer & digital radio Satellite reception unit





Missiles & UAVS

Air missiles and UAVS Ground control station & launchers Radars Video





Nav

Threat detection systems Radars Network infrastructure





Industrial

Rail mass transit Wifi connexion



GENERAL CHARACTERISTICS

Description



- Derived from MIL-DTL Series III
- 2M801 corresponding to Dual-start thread
- 2M805 corresponding to Tri-start thread EN & QPL standards in progress
- Dedicated to harsh environment applications
- Perfectly suitable for new design project
- Integrated backshell
- 9 arrangements
- 6 sizes
- 3 platings: Olive drab cadmium, Nickel and Black zinc nickel

Main features

Shell materials and platings:

Aluminum shell, barrel and coupling nut	Aluminum alloy 6061 T6
Stainless steel shell, barrel coupling nut	Passivated stainless steel, 200°C
Front and rear inserts	Polyphenylene sulfide (PPS)
Contact retention clip	Beryllium copper, heat-treated
Grommet, peripheral seal and interfacial seal	Fluorosilicone rubber
Contacts	Gold plated copper alloy
Socket contact hood	Passivated stainless steel
Adhesives	Various epoxies & RTV's
Potting compound, PCB and solder cup versions	High strength epoxy
Shell finish	- Electroless Nickel ✓ - Olive Drab Cadmium - Black Zinc Nickel ✓

^{✓:} RoHS compliant

Contacts:

- Standard contacts plated with a minimum of 1.27 μ m gold
- Size 16, 20 HD and 23



All dimensions are given for information only and are in mm

CONNECTOR WEIGHT

2M805 Tri-start thread coupling

Insert Arrangement	Plug (g)	Jam nut Recept. Crimp (g)	Jam nut Recept. PCB (g)	Square Flange Recept. Crimp (g)	Square Flange Recept. PCB (g)
8-1P	7,5	5,8	5,7	5,8	4,6
8-1S	7,9	6,3	6,2	6,3	5,1
8-7P	7,3	5,6	5,5	5,6	4,4
8-7S	7,7	6,1	5,9	6,1	4,8
8-23P	1	1	1	1	1
8-23S	1	1	I	1	1
9-10P	10,7	8,8	8,8	6,6	7,5
9-10S	11,6	9,7	9,7	7,5	8,4
10-13P	12,7	9,6	9,7	8,3	8,7
10-13S	13,4	10,3	10,5	9	9,5
11-19P	14,3	11	12	9,2	10,2
11-19S	15,4	12,1	13,1	10,3	11,3
11-200P	14,9	11,6	12,5	9,8	10,8
11-200S	16	12,7	13,6	10,9	11,9
12-26P	15,8	12,1	14,5	10,5	11,3
12-26S	17,4	13,6	16,1	12	12,9
15-37P	20,1	19,7	21,2	16,5	18,9
15-37S	23	22,6	24,1	19,4	21,8

2M801 Dual-start thread coupling

Insert Arrg.	Plug (g)	Jam Nut Recept. Crimp (g)	Jam Nut Recept. PCB (g)	Sq. Flange Recept. Crimp (g)	Sq. Flange Recept. PCB (g)
6-1P	5,6	4,3	4,6	2,7	2,9
6-1S	5,9	4,6	4,9	3	3,2
6-7P	5,4	4,1	4,6	2,9	3,4
6-7S	5,6	4,4	4,7	3,2	3,5
6-23P	/	1	1	1	1
6-23S	/	1	1	1	1
7-10P	7,6	6,3	7,7	4,3	5
7-10S	8	6,7	7	4,7	5,2
8-13P	8,3	7,1	9,4	5	6,2
8-13S	8,9	7,6	8,1	5,6	6,5
9-19P	10,1	7,9	9,2	5,8	7,1
9-198	10,9	8,7	9,7	6,6	7,6
9-200P	10,4	9,2	10,2	7,1	8,1
9-200S	11,4	10,2	11,2	8,1	9,1
10-26P	14,2	11	11,9	12,5	8,7
10-26S	15,3	12,1	12,5	16,7	9,2
13-37P	18,4	16,7	16,7	16,7	14,6
13-37S	19,9	17,6	17,6	17,6	15,5

All dimensions are given for information only and are in $\ensuremath{\mathsf{mm}}$

TECHNICAL CHARACTERISTICS

Mechanical characteristics

Durability	500 mating cycles
Shock	300 G ± 15
Vibration	43,9 G Random 60,0 G

Working temperature

Shell material	Shell finish	Salt spray exposure per EIA364,26 (H)	Operating temperature (°C)	
			Min	Max
Aluminum	Electroless Nickel	48		+ 150
	O.D. cadmium		- 65	
	Black Zinc Nickel	500		

Environmental

Characteristics	Requirement	Procedure
Humidity	No deterioration which will adversely affect the connector. 100 megohms minimum insulation resistance during the final cycle. Following the recovery period, connectors shall meet contact resistance, shell-to-shell resistance and DWV requirements.	EIA-364-31 Condition B Method III 80-98% RH 10 cycles (10 days) +25° C to +65° C Step 7b vibration deleted. 24 hour recovery period.
Altitude immersion	No evidence of moisture on connector interface or contacts. Connector shall meet dielectric withstanding voltage.	EIA-364-03
Fluid Immersion	No visible damage from immersion in various fuels and oils. Connector shall meet coupling torque and dielectric withstanding voltage requirements.	EIA-364-10 Unmated connectors
Water immersion, mated	No evidence of water penetration into mated connectors. ≥100W insulation resistance.	MIL-STD-810F Method 512.4 1 meter immersion 1 hour
Thermal shock	No mechanical damage or loosening of parts. Following thermal shock, connector shall meet contact resistance, DWV, insulation resistance and shell-to-shell resistance requirements.	EIA-364-32 Test Condition IV 5 cycles consisting of -65° C 30 minutes, +25° C 5 minutes max., +150° C 30 minutes, +25° C 5 minutes max.
Sand and dust	Mated connectors shall withstand the effects of blowing sand and dust	MIL-STD-810F, Method 510.4

All dimensions are given for information only and are in $\ensuremath{\mathsf{mm}}$

ELECTRICAL CHARACTERISTICS

	Contact size	#23	#20HD	#16
Maximum Current Rating	Crimp contacts (A)	5	7,5	13
Contact resistance	Test current	73mV drop at 5A	55 mV drop at 7,5A	49 mV drop at 13A
Insultation resistance	5 000 megohms minimum			

Salt spray exposure

			2M801 Series	2M805 Series
		Initial		2 mV
Shell-to-shell conductivity	After 48 hour		2,5 mV	2 mV
		100 MHz	75 dB Min	90 dB Min
		200 MHz	70 dB Min	88 dB Min
	Low frequency	300 MHz	65 dB Min	88 dB Min
		400 MHz	63 dB Min	87 dB Min
Shelding effectiveness		800 MHz	58 dB Min	85 dB Min
		1 GHz	55 dB Min	85 dB Min
		3 GHz	50 dB Min	69 dB Min
	High frequency	5 GHz	45 dB Min	66 dB Min
		19 GHz	40 dB Min	65 dB Min

Service rating

	Dielectric withstanding voltage (Vrms)			
Contact size	At sea	40 000 feet 12 000 meters		
	Mated	Unmated	Mated	
#23	500	500	100	
#20HD	750	750	150	
#16	1 800	1 800	1 000	

All dimensions are given for information only and are in $\ensuremath{\mathsf{mm}}$

SELECTION OF INSERT ARRANGEMENTS

Front face of male insert (Only the major keyway is illustrated)						
Contact Size	Contact Size 16 20HD 23					
Caption	\oplus	•	0			









2M801
2M805
Nbr of contacts
Contacts sizes
DWV Voltage (VAC)
Current Rating (Amps)

6-1	
8-1	
1	
#16	
1800	
13	

	6-7	
	8-7	
	7	
	#23	
	500	
***************************************	5	

6-23
8-23
3
#20HD
750
7.5

	7-10	
•	9_10	
•	10	
	#23	
	500	
•••••	5	









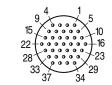
2M801	
2M805	
Nbr of contacts	
Contacts sizes	
DWV Voltage (VAC)	
Current Rating (Amps)	

	8-13		
	10-13		
	13	 	
***************************************	#23		
	500	 	
	5		

9-19	
11-19	
19	
#23	
500	
5	

9-2	00
11-2	200
2	4
#16	#23
1800	500
5	13

	10-26	
•	12-26	
	26	
***************************************	#23	
	500	
• • • • • • • • • • • • • • • • • • • •	5	



2M801	
2M805	
Nbr of contacts	
Contacts sizes	
DWV Voltage (VAC)	
Current Rating (Amps)	

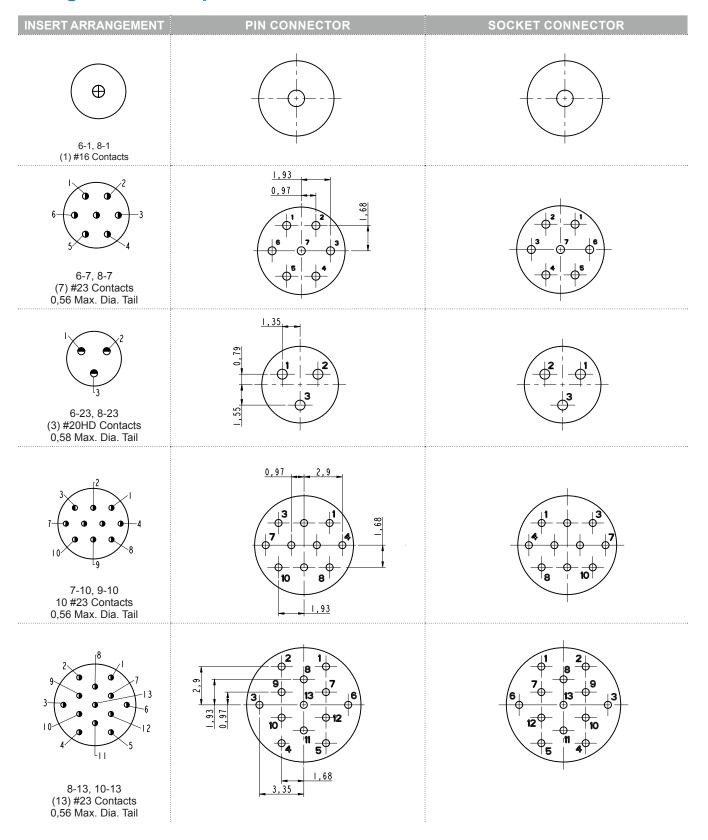
13-37
15-37
37
#23
500
5

Inserts Arrangements			Contact Quantity		Current Rating	Dielectric withstanding	Wire size
2M801	2M805	#23	#20HD	#16	(A)	voltage (V)	AWG
6-1	8-1			1	13	1800	#16 - #20
6-7	8-7	7			5	500	#22 - #28
6-23	8-23		3		7,5	750	#20 - #24
7-10	9-10	10			5	500	#22 - #28
8-13	10-13	13			5	500	#22 - #28
9-19	11-19	19			5	500	#22 - #28
9-200	11-200	4		2	5 - 13	-	-
10-26	12-26	26			5	500	#22 - #28
13-37	15-37	37			5	500	#22 - #28

All dimensions are given for information only and are in mm **Part of the high service program**

SELECTION OF INSERT ARRANGEMENTS

Straight PCB Footprints



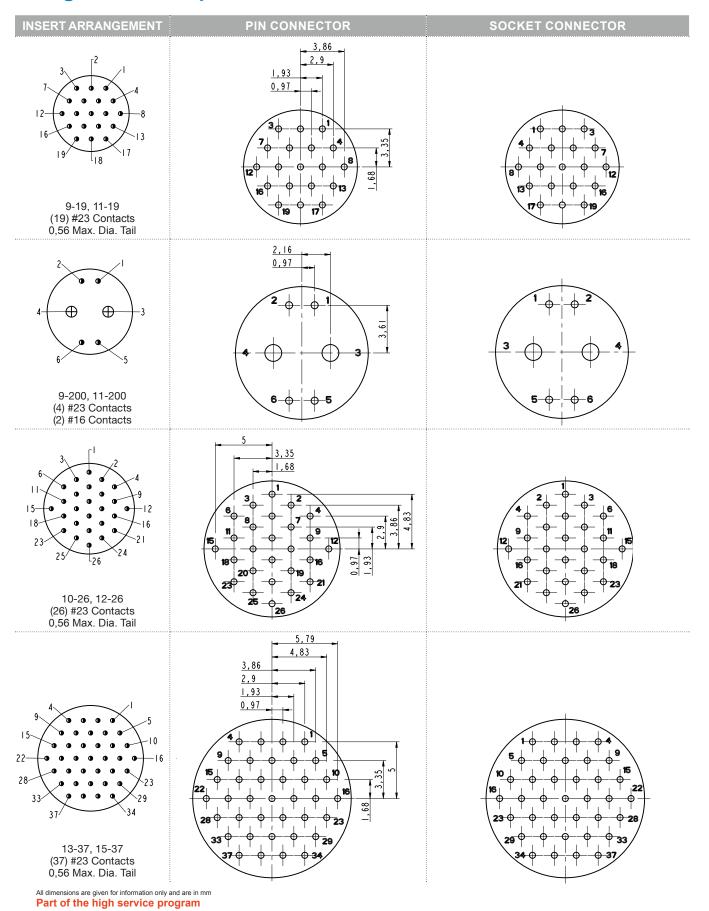
Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

All dimensions are given for information only and are in $\ensuremath{\mathsf{mm}}$

Part of the high service program

SELECTION OF INSERT ARRANGEMENTS

Straight PCB Footprints





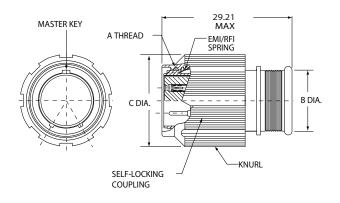




Overall dimensions

Straight plug with integrated backshell:

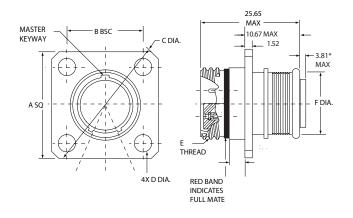
2M805-001-16



Shell Size	A Threads	B Dia. (mm)	C Dia. (mm)	D Threads Accessory
8	.50001P3L-TS-2B	8,05	17,55	.3750-32 UNEF-2A
9	.56251P3L-TS-2B	10,08	19,99	.4375-28 UNEF-2A
10	.62501P3L-TS-2B	12,01	20,98	.5000-28 UNEF-2A
11	.68751P3L-TS-2B	13,18	23,50	.5625-24 UNEF-2A
12	.75001P3L-TS-2B	14,86	24,94	.6250-24 UNEF-2A
15	.93751P3L-TS-2B	17,45	28,07	.7500-20 UNEF-2A

Square Flange Receptacle with integrated backshell:

2M805-003-02



* Grommet protrudes for power/combo arrangement

Shell Size	A Sq. (mm)	B BSC. (mm)	C Dia. (mm)	D Dia. ±.08 (mm)	E Threads	F Dia. (mm)	G Threads Accessory
8	21,67	16,76	29,29	2,31	.50001P3L-TS-2A	8,05	.3750-32 UNEF-2A
9	23,27	18,36	31,32	2,31	.56251P3L-TS-2A	10,08	.4375-28 UNEF-2A
10	24,84	19,94	33,86	2,31	.62501P3L-TS-2A	12,01	.5000-28 UNEF-2A
11	26,47	21,54	35,89	2,31	.68751P3L-TS-2A	13,18	.5625-24 UNEF-2A
12	27,99	23,09	38,18	2,31	.75001P3L-TS-2A	14,86	.6250-24 UNEF-2A
15	32,79	26,87	44,53	3,18	.93751P3L-TS-2A	17,45	.7500-20 UNEF-2A

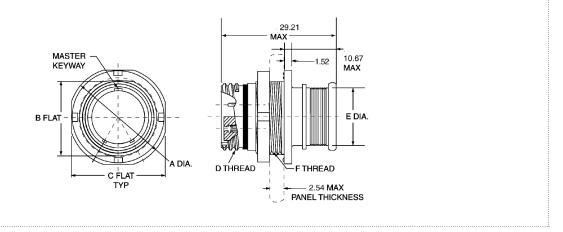
All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch

Part of the high service program

Overall dimensions

Jam Nut Receptacle with integrated backshell:

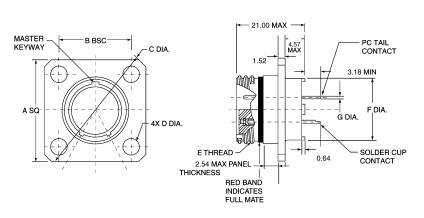
2M805-003-07



Shell Size	A Dia. (mm)	B Flat (mm)	C Flat (mm)	D Threads	E Dia. (mm)	F Threads	G Threads Accessory
8	19,30	13,59	18,54	.50001P3L-TS-2A	8,05	.5625-28 UN-2A	.3750-32 UNEF-2A
9	22,35	16,79	21,59	.56251P3L-TS-2A	10,08	.6875-28 UN-2A	.4375-28 UNEF-2A
10	22,35	16,79	21,59	.62501P3L-TS-2A	12,01	.6875-28 UN-2A	.5000-28 UNEF-2A
11	24,26	18,31	23,50	.68751P3L-TS-2A	13,18	.7500-28 UN-2A	.5625-24 UNEF-2A
12	27,05	19,91	26,39	.75001P3L-TS-2A	14,86	.8125-28 UN-2A	.6250-24 UNEF-2A
15	30,56	24,64	29,79	.93751P3L-TS-2A	17,45	1.0000-28 UN-2A	.7500-20 UNEF-2A

Square Flange Receptacle PCB:

2M805-005-02

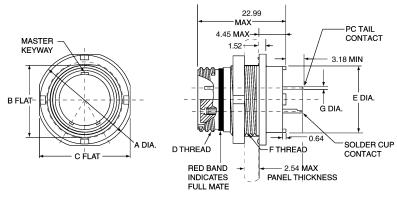


Shell Size	A Sq.	B BSC.	C Dia.	D Dia.	E Threads	F Dia.	G PC Tail Dia.
(mm)	(mm)	(mm)	(mm)	(mm) ±.08	E Threads	(mm)	G PC Tall Dia.
8	21,67	16,76	29,29	2,31	.50001P3L-TS-2A	8,38	#23 .018/.022 0.46/0.56
9	23,27	18,36	31,32	2,31	.56251P3L-TS-2A	10,97	0.46/0.56 #20/20HD
10	24,84	19,94	33,86	2,31	.62501P3L-TS-2A	12,52	.025/.027 0.64/0.69
11	26,47	21,54	35,89	2,31	.68751P3L-TS-2A	14,00	#16 .060/.064
12	27,99	23,09	38,18	2,31	.75001P3L-TS-2A	15,78	1.521/1.63
15	32,79	26,87	44,53	3,18	.93751P3L-TS-2A	17,86	#12 .092/.096 2.34/2.44

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch Part of the high service program

Overall dimensions

Jam Nut Receptacle PCB: 2M805-005-07



Shell Size	A Dia. (mm)	B Flat (mm)	C Flat (mm)	D Threads	E Dia. (mm)	F Threads	G PC Tail Dia.
8	19,30	13,59	18,54	.50001P3L-TS-2A	8,38	.5625-28 UN-2A	#23
9	22,35	16,79	21,59	.56251P3L-TS-2A	10,97	.6875-28 UN-2A	#23 .018/.022 0.46/0.56
10	22,35	16,79	21,59	.62501P3L-TS-2A	12,52	.6875-28 UN-2A	#20/20HD .025/.027 0.64/0.69
11	24,26	18,31	23,50	.68751P3L-TS-2A	14,00	.7500-28 UN-2A	#16 .060/.064 1.521/1.63
12	26,92	19,91	26,29	.75001P3L-TS-2A	15,78	.8125-28 UN-2A	#12 .092/.096 2.34/2.44
15	30,56	24,64	29,79	.93751P3L-TS-2A	17,86	1.0000-28 UN-2A	2.34/2.44

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch Part of the high service program

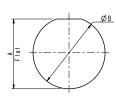
Panel drilling

Jam Nut Receptacle:

2M805-003-07

Jam Nut Receptacle PCB:

2M805-005-07

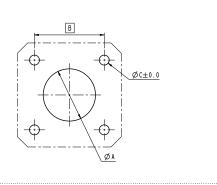


Panel Cutout									
Shell Size	A Flat ± 0.05 (mm)	Ø B Dia ± 0.13 (mm)							
8	13,79	14,53							
9	16,99	17,73							
10	16,99	17,73							
11	18,51	19,30							
12	20,17	20,88							
15	24,84	25,65							



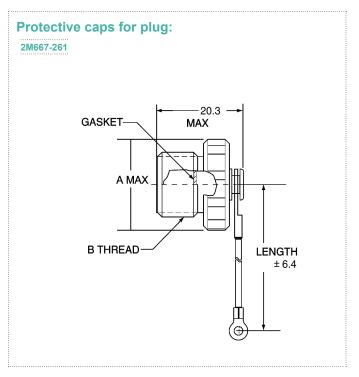
Square Flange Receptacle PCB:

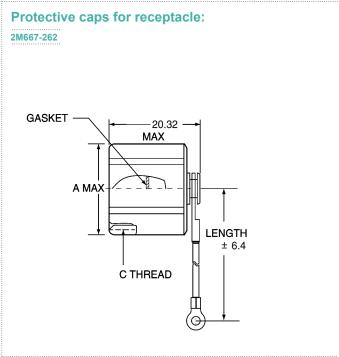
2M805-005-02



Panel Cutout									
Shell Size	Ø A (mm)	B (mm)	Ø C (mm)						
8	13,07	16,76	2,39						
9	14,66	18,36	2,39						
10	16,25	19,94	2,39						
11	17,83	21,54	2,39						
12	19,42	23,09	2,39						
15	24,18	26,67	3,25						

Overall dimensions - Protective caps





Shell Size	A Max. (mm)	B Thread	C Thread
8	16,66	.50001P3L-TS-2A	.50001P3L-TS-2B
9	18,24	.56251P3L-TS-2A	.56251P3L-TS-2B
10	19,84	.62501P3L-TS-2A	.62501P3L-TS-2B
11	21,44	.68751P3L-TS-2A	.68751P3L-TS-2B
12	23,01	.75001P3L-TS-2A	.75001P3L-TS-2B
15	27,79	.93751P3L-TS-2A	.93751P3L-TS-2B

Material & finishes							
Cover	Cover Aluminum alloy or stainless steel						
Gasket	Fluorosilicone rubber						
Wire, harware	Stainless steel, passivated						

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch Part of the high service program

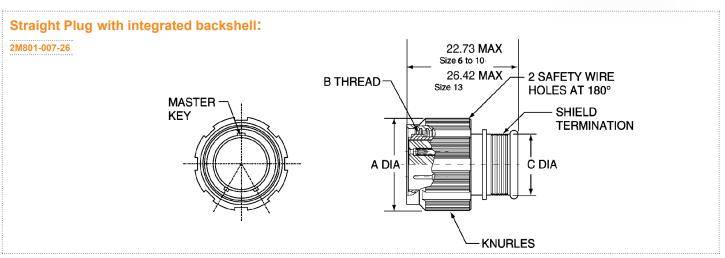




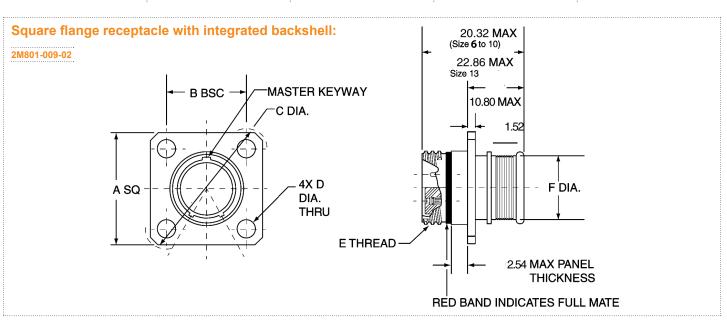
Technical Characteristi

2 M805

Overall dimensions



Shell Size	A Dia. (mm)	B Thread	C Dia. (mm)	D Thread UNEF-2A
6	18,03	.375005P1L-2B	7,37	.3125-32
7	20,07	.437505P1L-2B	9,91	.4375-28
8	21,84	.500005P1L-2B	11,30	.5000-28
9	23,37	.562505P1L-2B	12,70	.5625-24
10	25,02	.625005P1L-2B	14,22	.6250-24
13	29,21	.81251P2L-2B	16,51	.6875-24



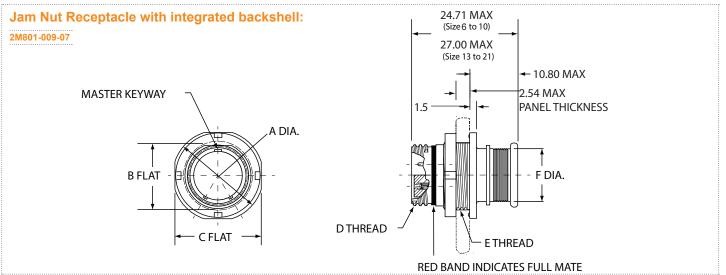
Shell Size	A SQ (mm)	B BSC (mm)	C Dia. (mm)	D Dia. ± .08 (mm)	E Thread	F Dia. (mm)	G Thread UNEF- 2A
6	14,99	10,74	19,05	2,36	.375005P1L-2A	7,37	.3125-32
7	16,51	12,27	21,59	2,36	.437505P1L-2A	9,91	.4375-28
8	18,08	13,84	23,88	2,36	.500005P1L-2A	11,30	.5000-28
9	21,59	15,42	28,58	3,25	.562505P1L-2A	12,70	.5625-24
10	22,61	17,02	30,23	3,25	.625005P1L-2A	14,22	.6250-24
13	26,16	20,62	34,93	3,25	.81251P2L-2A	16,51	.6875-24

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch

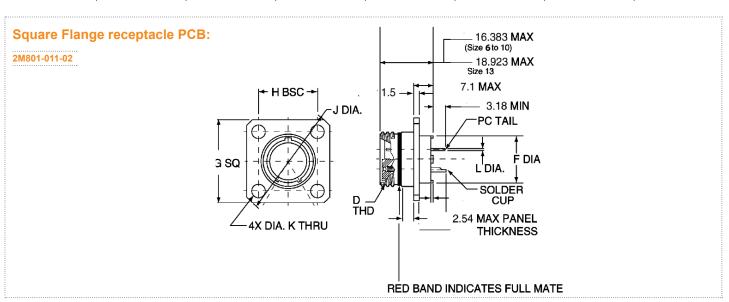
Part of the high service program

Overall dimensions

SELECTION OF 2M801 DUAL-START



Shell Size	A dia (mm)	B Flat (mm)	C Flat (mm)	D Thread	E Thread	F dia. (mm)	G Thread UNEF-2A
6	16,13	10,41	15,11	.375005P1L-2A	.4375-28 UNEF-2A	7,37	.3125-32
7	19,18	13,61	18,36	.437505P1L-2A	.5625-32 UN-2A	9,91	.4375-28
8	19,18	13,61	18,36	.500005P1L-2A	.5625-32 UN-2A	11,30	.5000-28
9	21,08	15,14	20,07	.562505P1L-2A	.6250-28 UN-2A	12,70	.5625-24
10	22,61	16,71	21,72	.625005P1L-2A	.6875-28 UN-2A	14,22	.6250-24
13	27,38	21,46	26,52	.81251P2L-2A	.8750-28 UN-2A	16,51	.6875-24



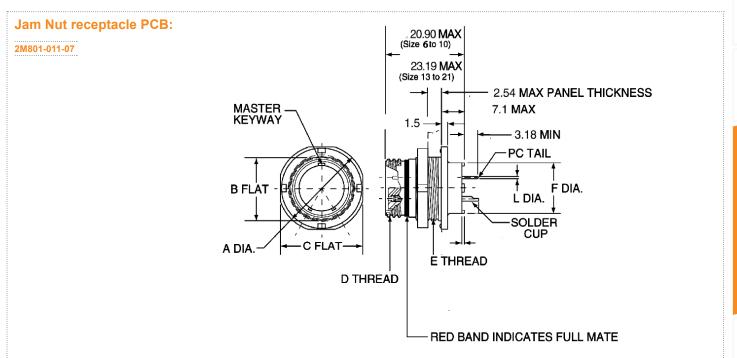
Shell Size	A Dia. (mm)	B Flat (mm)	C Flat (mm)	D Thread	E Thread	F Dia. (mm)	G Sq. (mm)	H BSC (mm)	J Dia. (mm)	K Dia. (mm)	L Dia. Tail Dia.
6	16,13	10,41	15,11	.375005P1L-2A	.4375-28	8,38	14,99	10,74	19,05	2,36	#23
7	19,18	13,61	18,36	.437505P1L-2A	.5625-32	10,97	16,51	12,27	21,59	2,36	0.46/0.56
8	19,18	13,61	18,36	.500005P1L-2A	.5625-32	12,52	18,08	13,84	23,88	2,36	20HD
9	21,08	15,14	20,07	.562505P1L-2A	.6250-28	14,00	21,56	15,42	28,58	3,25	0.64/0.69
10	22,61	16,71	21,72	.625005P1L-2A	.6875-28	15,75	22,61	17,02	30,23	3,25	#16
13	27,38	21,46	26,52	.81251P2L-2A	.8750-28	17,86	26,16	20,62	34,93	3,25	1.52/1.63

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch

Part of the high service program

SELECTION OF 2M801 DUAL-START

Overall dimensions



Shell Size	A Dia. (mm)	B Flat (mm)	C Flat (mm)	D Thread	E Thread	F Dia. (mm)	G Sq. (mm)	H BSC (mm)	J Dia. (mm)	K Dia. (mm)	L Dia. Tail Dia.
6	16,13	10,41	15,11	.375005P1L-2A	.4375-28	8,38	14,99	10,74	19,05	2,36	#23
7	19,18	13,61	18,36	.437505P1L-2A	.5625-32	10,97	16,51	12,27	21,59	2,36	0.46/0.56
8	19,18	13,61	18,36	.500005P1L-2A	.5625-32	12,52	18,08	13,84	23,88	2,36	20HD
9	21,08	15,14	20,07	.562505P1L-2A	.6250-28	14,00	21,56	15,42	28,58	3,25	0.64/0.69
10	22,61	16,71	21,72	.625005P1L-2A	.6875-28	15,75	22,61	17,02	30,23	3,25	#16
13	27,38	21,46	26,52	.81251P2L-2A	.8750-28	17,86	26,16	20,62	34,93	3,25	1.52/1.63

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch Part of the high service program

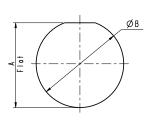
Panel drilling

Jam Nut Receptacle:

2M801-009-07

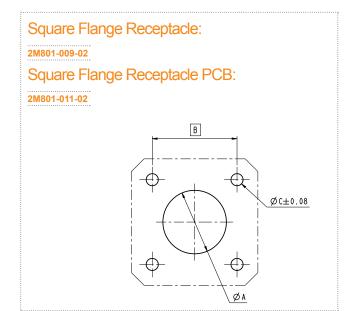
Jam Nut Receptacle PCB:

2M801-011-07



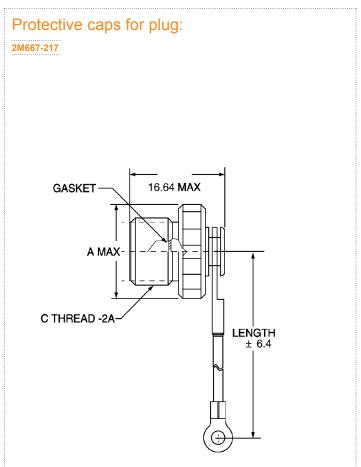
SELECTION OF 2M801 DUAL-START

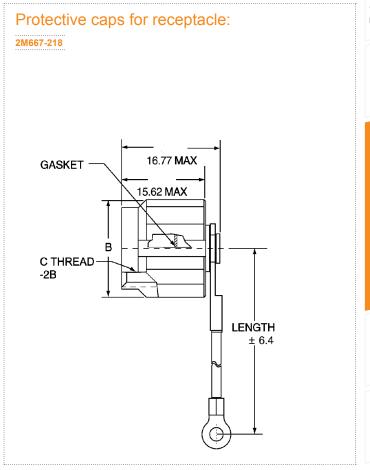
	Panel Cutout						
Shell Size	A Flat ± 0.05 (mm)	Ø B Dia ± 0.05 (mm)					
6	10,57	11,35					
7	13,77	14,53					
8	13,77	14,53					
9	15,29	16,13					
10	16,62	17,70					
13	21,62	22,48					



	Panel Cutout							
Shell Size	Ø A (mm)	B (mm)	Ø C (mm)					
6	9,91	10,74	2,36					
7	11,43	12,27	2,36					
8	12,95	13,84	2,36					
9	14,61	15,42	3,25					
10	16,26	17,02	3,25					
13	20,96	20,65	3,25					

Overall dimensions - Protective caps





Shell Size	A Max. (mm)	B Max (mm)	С
6	13,28	15,57	.375005P-1L
7	14,94	17,78	.437505P-1L
8	16,46	19,25	.5000051L
9	18,11	20,65	.562505P1L
10	19,63	22,68	.625005P-1L
13	24,46	27,00	.81251P2L

Materials					
Cover	Aluminum alloy or stainless steel				
Gasket for plug	Fluorosilicone rubber				
Gasket for receptacle	Silicone rubber				
Wire, harware	Stainless steel, passivated				

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch Part of the high service program

2M SERIES CONTACTS AND TOOLS

Crimp Contacts

					Color Band			
Contact Size	Туре	AMPS	Wire Size AWG	Part Number	1st	2nd	3rd	
	Pin		#22-#28	2M809-001	N/A	N/A	N/A	
# 00	Pin	_	#26-#30	2M809-042*	Blue	N/A	N/A	
#23	Socket 5	5	#22-#28	2M809-002	N/A	N/A	N/A	
	Socket		#26-#30	2M809-043*	Blue	N/A	N/A	
	Pin		#20-#24	2M809-204	N/A	N/A	N/A	
#20HD	Socket	7.5	#20-#24	2M809-205	N/A	N/A	N/A	
	Pin		#16-#20	M39029/58-364	Orange	Blue	Orange	
#16	Socket	13	#16-#20	M39029/57-358	Orange	Green	Gray	



Contact Tools

	Tooling Part Numbers					
Contact Size	Crimper	Positioner	Insertion/ Removal Number			
#20			DAK225-22* (Daniels Insertion Only)			
#23	M22520/2-01	K1461-1* (Daniels)	2M809-23R (Removal only)			
#20HD	M22520/2-01	2M809-206	2M809-20HDR (Removal only)			
#16	M22520/1-01	M22520/1-04	M81969/14-03			

^{*}Daniels Manufacturing Co. part number

Crimp Tensile Strength

Contact Size	Wire Gage	Silver or Tin Coated Copper wire	Nickel Coated Copper Wire
#23, #20HD	#22	12	8
#23, #20HD	#24	8	6
#23	#26	5	3
#23	#28	3	2
#23	#30	1.5	1.5

Tensile Strength for size #23 and #20HD only Values represent minimums and are in pounds

Series 2M Torque Values

Shell Size Series	Shell Size Series	Coupling Torque (N-m)		Jam Nut Tightening (N-m)		Backshell Tightening (N-m)	
2M801	2M805	Min.	Max.	Min.	Max.	Min.	Max.
6	8	4,0	4,5	2,2	2,8	2,0	2,5
7	9	4,0	4,5	2,2	2,8	3,4	4,5
8	10	4,5	5,7	2,2	2,8	3,4	4,5
9	11	4,5	5,7	2,2	2,8	4,0	5,1
10	12	5,7	6,8	2,8	3,3	4,0	5,1
13	15	5,7	6,8	2,8	3,3	4,0	5,1

All dimensions are given for information only and are in mm, except as otherwise specified *in mm: 1mm=0.03937 inch Part of the high service program

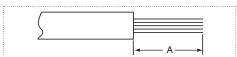
^{*}Special order please consult Amphenol Socapex for information.

Crimp Tensile Strength

- 1. Strip wire to required length. (See Figure at right). When using hot wire stripping, do not wipe melted insulation material on wire strands; with mechanical strippers do not cut or nick strands.
 - 2. See Table 1 for proper finished outside wire dimensions.
 - 3. Twist strands together to form a firm bundle.
- 4. Insert stripped wire into contact applying slight pressure until wire insulation butts against wire well.

Check inspection hole to see that wire strands are visible. If there are strayed wire strands, entire wire end should be re-twisted. When wire is stripped and properly installed into contact, the next step is to crimp the wire inside the contact by using the proper crimping tool.

Stripping Dimensions



Wire Size	A (mm)
23	.2.92
20HD	4.77
16	4.77

Table 1

Contact	Wire Dimension (mm)**			
Size	Min.	Max.		
16	1.651	2.769		
20HD	1.016	1.956		
23	0.635	1.219		

** Min. diameters to insure moisture proof assembly; max. diameters to permit use of metal removal tools.

Crimping

See table on preceding page for more information on crimp contacts, contact tools, and crimp tensile

- 1. Insert stripped wire into contact crimp pot. Wire must be visible through inspection hole.
- 2. Using correct crimp tool and locator, cycle the tool once to be sure the indentors are open, insert contact and wire into locator. Squeeze tool handles firmly and completely to insure a proper crimp. The tool will not release unless the crimp indentors in the tool head have been fully actuated.
- 3. Release crimped contact and wire from tool. Be certain the wire is visible through inspection hole in contact.

VISUAL INSPECTION HOLE



Examples of M22520 Series Crimping Tools: Shown top: tool used for small size 23 contacts Shown bottom: tool used for size 20, 16 contacts and has a positioner that can be dialed for each contact size.

Watch our videos

Twinax Contacts Termination Procedure



http://opn.to/a/keXEG



Contact Insertion

1. First remove hardware from the plug and receptacle and slide the hardware over wires in proper sequence





Note: All plastic tools are double-ended. The colored side is the insertion tool and the white side is the removal tool.

2. Use proper plastic or metal insertion tool for corresponding contact. (Consult Insertion Tool table on

Slide correct tool (with plastic tool use colored end) over wire insulation and slide forward until tool bottoms against rear contact shoulder



Plastic tool with contact in proper position.



3. Next align the tool and contact up to the properly identified cavity at rear of connector plug. Use firm, even pressure; do not use excessive pressure. It is recommended to start at the center cavity. Contact must be aligned with grommet hole and not inserted at an angle. Push forward until contact is felt to snap into position within insert.



Continued on next page.

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch Part of the high service program

Amphenol SOCAPEX

2M SERIES ASSEMBLY INSTRUCTIONS

Contact insertion, cont.

4. Remove tool and pull back lightly on wire, making sure contact stays properly seated and isn't dragged back with the tool. Repeat operation with remainder of contacts to be inserted, beginning with the center cavity and working outward in alternating rows.



CAUTION: when inserting or removing contacts, do not spread or rotate tool tips.

5. After all contacts are inserted, fill any empty cavities with wire sealing plugs.



Reassemble plug or receptacle hardware slide forward and tighten using connector pliers. Connector holding tools are recommended while tightening back accessories.

When using strain relief, center wires at bar clamp. Slide clamp grommet into position and tighten clamp bar screws. When tightening screws, pressure should be applied in the same direction that clamp is threaded to rear threads of connector.

When not using clamp grommet, build up wire bundle with vinyl tape so clamp bar will maintain pressure on wires.



Contact removal

1. Remove hardware from plug or receptacle and slide hardware back along wire bundle.



2. Use proper plastic or metal removal tool for corresponding contact. Slide correct size tool over wire insulation.



Use white end of plastic tool fo removal of contacts.

3. Insert plastic or metal removal tool into contact cavity until tool tips enter rear grommet and come to a positive stop. Hold tool tip firmly against positive stop on contact shoulder.

Grip wire and simultaneously remove tool and contact. (On occasion, it may be necessary to remove tool, rotate 90° and reinsert.)

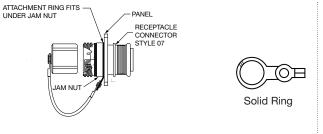


Removal of contacts with metal tool.

CAP ATTACHMENT TO PANEL

Cap attachment

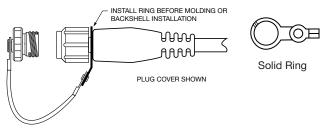
CAP ATTACHMENT TO JAM NUT RECEPTACLE







CAP ATTACHMENT TO CABLE ASSEMBLY



All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch Part of the high service program

2M SERIES CONTACTS AND TOOLS

Micro Band Shield Termination System:

Micro Band Termination: For assembling cables to overmolded style 2M connectors or backshells, the Micro Band System offers quick termination of cable shields and flexibility to be utilized on a wide range of parts with just one band size. These rugged straps have passed numerous hazardous environmental testing, including shock and vibration. Approved for use in military and aerospace applications.

MATERIALS:

Micro Band Installation Tool. Use with 3.05 mm wide bands. 172 mm. length, 0.6 Kg

Micro Band, 3.05 mm wide. Available in two lengths, flat or pre-coiled. Stainless steel.

Micro Band Installation Tool: 2M600-061

Length (mm)	Part Number (Flat)	Accommodates Diameters (mm)
206,38	2M600-057	22,35
361,95	2M600-083	47,75



Micro Band Shield Termination Instruction:

- 1. Prepare cable braid for termination process (Figure 1).
- 2. Push braid forward over adapter retention lip to the adapter incline point (10.2mm minimum braid length). Milk braid as required to remove slack and winsure a snug fit around the shield termination area (Figure 2).
- 3. Prepare the band in the following manner: IMPORTANT: Due to connector/adapter circumference, it may be necessary to prepare the band around the cable or retention area.
- A. Roll band through the buckle slot twice. (Band must be double-coiled!)
- B. Pull on band until mark is within approximately 6.4mm of buckle slot (Figure 3). The band may be tightened further if desired.

NOTE: Prepared band should have this mark visible approximately whereshown in Figure 3. Shield Termination Clamping Process (Figures 4 thru 8) NOTE: To free tool handles, squeeze handles together and move holding clips to center of tool.

4. Squeeze gray gripper release lever and insert band into the front end opening of the tool. (Circular portion of looped band must always face downward.)

5. Aligning the band and tool with the shield termination area, squeeze blue pull-up handle repeatedly in full strokes until it locks against tool body. (This indicates the band is compressed to the tool precalibrated tension)

NOTE: To loosen or remove band before locking and cut-off, squeeze gray grip per release lever on tool and pull band out. To loosen or remove band after blue pull-up handle locks against tool body, squeeze pull-up handle and push tension release lever on top of tool forward. Let tension handle return to original position and use the gripper release lever to remove

6. Complete the clamping process by squeezing the black cut-off handle to form lock and trim excess band. To remove excess band from tool, squeeze gray gripper release handle, pull out and dispose. Inspect shield termination.

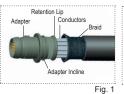




Fig. 2





Fig. 4





Fig. 3



Fig. 6





All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch Part of the high service program

2M SERIES BACKSHELLS AND ACCESSORIES

2M809S060, 2M809A060 SHRINK BOOTS

The 2M Series of Shrink Boots is intended for use with the 2M series of connectors supplied with Integral Backshells. All shrink boots are supplied pre-coated with Hi-Temperature, Hot-Melt adhesive that will seal the boot to both the cable and connector. The boots also contains a lip that will lock on to a groove on the connector for improved strain relief.



High Performance Elastomer - Lipped Shrink Boot

- · Pre-coated with Adhesive
- Operating Temperature: -70°C to +150°C
- Rated for 3000 hrs. Continuous operation at ±150°C
- Excellent resistance to fuels, oils, and solvents

Material	Spec
Fluid Resistant Polymer	VG 95343 Part 6

Boot	Shell Size		Straight Shrink Boots Part Shell Size Number			Right Angle Boots Part Number		
Size	Series 2M801	30.00		Pre-Coated with Hi- Temp Hot-Melt Adhesive				
2	6, 7	8, 9	2M809S060-2G	2M809A060-2G				
3	8, 9	10, 11	2M809S060-3G	2M809A060-3G				
4	10, 13	12, 15	2M809S060-4G	2M809A060-4G				

Zero Halogen - Lipped Shrink Boots

- · Low Smoke, Zero Halogen
- Toxicity Requirements: Meets U.S. and EU standards
- · Pre-coated with Adhesive
- Operating Temperature: -30°C to +125°C
- · Good resistance to fuels, oils, and solvents

Material	Spec
Low Smoke Halogen	NAVSEA 5617649
Free	

Boot	Shell Size		Straight Shrink Boot Part Number	Right Angle Shrink Boots Part Number	
Size	Series 2M801	Series 2M805	Pre-Coated with Hi- Temp Hot-Melt Adhesive	Pre-Coated with Hi- Temp Hot-Melt Adhesive	
2	6, 7	8, 9	2M809S060-2H	2M809A060-2H	
3	8, 9	10, 11	2M809S060-3H	2M809A060-3H	
4	10	12, 15	2M809S060-4H	2M809A060-4H	

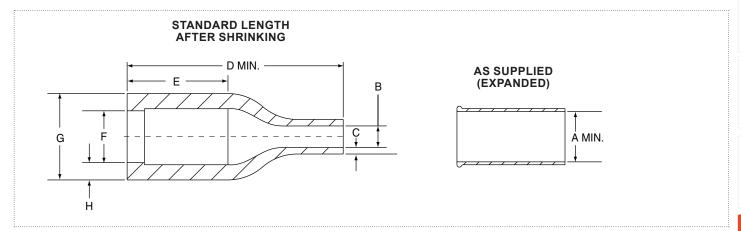
All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch

Part of the high service program

2M SERIES BACKSHELLS AND ACCESSORIES

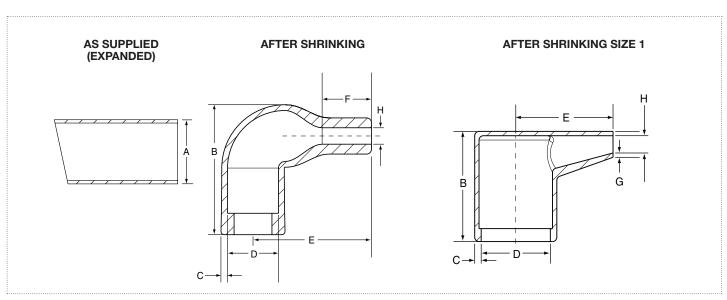
2M809S060, 2M809A060 SHRINK BOOTS

Lipped Straight Shrink Boots



Boot Size	A Min. (mm)	B Max. (mm)	C±20% (mm)	D±10% (mm)	E Ref. (mm)	F Max. (mm)	G Ref. (mm)	H±30% (mm)
2	16,5	3,8	1,27	25,4	14,2	6,05	10,5	2,29
3	23,4	5,6	1,52	38,1	21,1	8,59	13,46	2,54
4	28,4	6,6	1,78	54,9	27,7	12,40	17,8	2,79

Lipped Right Angle Shrink Boots



Boot Size	A Min. (mm)	B Ref. (mm)	C±30% (mm)	D Max. (mm)	E±20% (mm)	F Ref. (mm)	G±20% (mm)	H Max (mm)
2	16,5	20,1	1,0	7,9	18,3	7,62	1,6	2,5
3	23,3	22,9	1,3	10,4	20,3	5,8	1,3	5,6
4	28,5	28,5	1,5	14,2	29,8	7,1	1,5	6,3

All dimensions are given for information only and are in mm, except as otherwise specified in mm: 1mm=0.03937 inch

Part of the high service program

Characteristics

HOW TO ORDER - 2M805 TRI-START

4	

2.

3.

4

5.

6.

7.

Series	Connector type	Shell type	Service Class	Shell size	Contacts	Keying
2M805	-001	-16	M	8-1	P	Α

1. Series

2M805	į	2M805	Tri-start
			0

2. Connector type

		_	
-001	Crimp	Plug	Integrated backshell
-003	Cillip	Receptacle	integrated backshell
-005	Straight PCB	Receptacle	Epoxy potting

3. Shell type

-16	Self-Locking Ratchet for plug
-02	Square Flange for receptacle
-07	Jam Nut for receptacle

4. Service Class

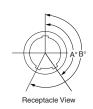
00	11100 01000
M	Electroless Nickel
NF	Olive Drab Cadmium
ZNU	Black Zinc Nickel

6. Contacts

P	
	Socket

7. Kevina

	,g	
	Α°	B°
		210°





5. Shel	l Size	
8-1	1 contact #13	\oplus
8-7	7 contacts #23	1 2 6 (°°) 3 5 4
8-23	3 contacts #20HD	1002
9-10	10 contacts #23	3 7 7 10 9 8
10-13	13 contacts #23	2 8 1 9 0 7 13 3 0 0 0 16 10 0 12 4 11 5
11-19	19 contacts #23	7 7 12 12 16 16 19 18 17 13
11-200	2 contacts #16 4 contacts #23	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
12-26	26 contacts #23	3 1 2 6 9 15 0 0 12 18 0 16 23 25 26 24
15-37	37 contacts #23	9 4 1 5 10 22 0 0 0 0 0 0 16 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch

Characteristics

HOW TO ORDER - 2M805 PROTECTIVE CAPS

1.

2.

3.

4.

5.

6.

	Series	Caps types	Service class	Attachement type	Shell size	Attachement code
2M667-26		-261	M	G	8	01

1. Series

2M667-26 2M805 Protective caps

5. Shell Size				
8	9	10		
11	12	15		

2. Caps types					
-261	Plugs				
-262	Receptacles				

3. Service class				
M	Electroness Nickel			
NF	Olive Drab Cadmium			
ZNU	Black Zinc Nickel			

4. Attachement type				
G	Nylon Rope			
Н	Stainless Steel Wire Rop. Teflon Jacket			

6. Attachement code						
	Ring		I.D. (mm)	For shell size		
01	©B	Small	3,20			
17			16,13	8		
18		Large	17,65	9,10		
19		Large	22,48	11,12		
20			27,17	15		

Characteristics

HOW TO ORDER - 2M801 DUAL-START

и		
п	١.	
	-	

2.

3

4.

5.

6.

7.

Series	Connector type	Shell type	Service Class	Shell size	Contacts	Keying			
2M801	-007	-26	M	6-1	Р	A			

1. Series

2M801 2M801 Dual-start

2. Connector type

_	7		
-007	Crimp	Plug	Integrated backshell
-009	Cillip	Receptacle	integrated backsnell
-011	Straight PCB	Receptacle	Epoxy potting

3. Shell type

-26	Self-Locking Ratchet for plug
-02	Square Flange for receptacle
-07	Jam Nut for receptacle

4. Service Class

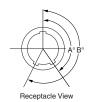
	- . 5e	I VICE CIASS
	M	Electroless Nickel
•	NF	Olive Drab Cadmium
	ZNU	Black Zinc Nickel

6. Contacts

P	Pin
S	Socket

7. Keying

	, ,	
	A°	B°
A	150°	210°





All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch

5. She	II Size	
6-1	1 contact #13	\oplus
6-7	7 contacts #23	1 6 6 9 3 5 4
6-23	3 contacts #20HD	1 0 0 2
7-10	10 contacts #23	3 7 10 9 8
8-13	13 contacts #23	2 8 1 9 0 0 7 13 3 0 0 0 0 6 10 0 12 4 11 5
9-19	19 contacts #23	3 2 1 7 4 12 (0000) +8 16 9 9 13 19 18 17
9-200	2 contacts #16 4 contacts #23	4 \(\oplus \oplus \) 3 \\ 6 \\oplus 5 \)
10-26	26 contacts #23	3 1 2 4 11 6 9 12 15 6 6 12 18 6 6 16 23 25 26 24
13-37	37 contacts #23	9 4 1 5 15 0 0 0 0 10 22 0 0 0 0 0 16 28 0 0 0 0 23 33 37 34

HOW TO ORDER - 2M801 PROTECTIVE CAPS

1.

2.

6.

Series	Caps types	Service class	Attachement type	Shell size	Attachement code				
2M667	-217	M	G	6	01				

1. Series

2M667 2M801 Protective caps

5. Shell Size		
6	7	8
0	10	42

2. Caps types

					2	2	•	1	١	7	,				I	F	0	1	ι	J	ļ	C	J	3												
•	٠	•	•	٠	•	•		•		•	•			:	•	1	•				٠	٠		٠		٠	٠		٠	•	٠	•	•	٠	1	

Receptacles

0.	Α	tta	ch	er	ne	nt	CO	de

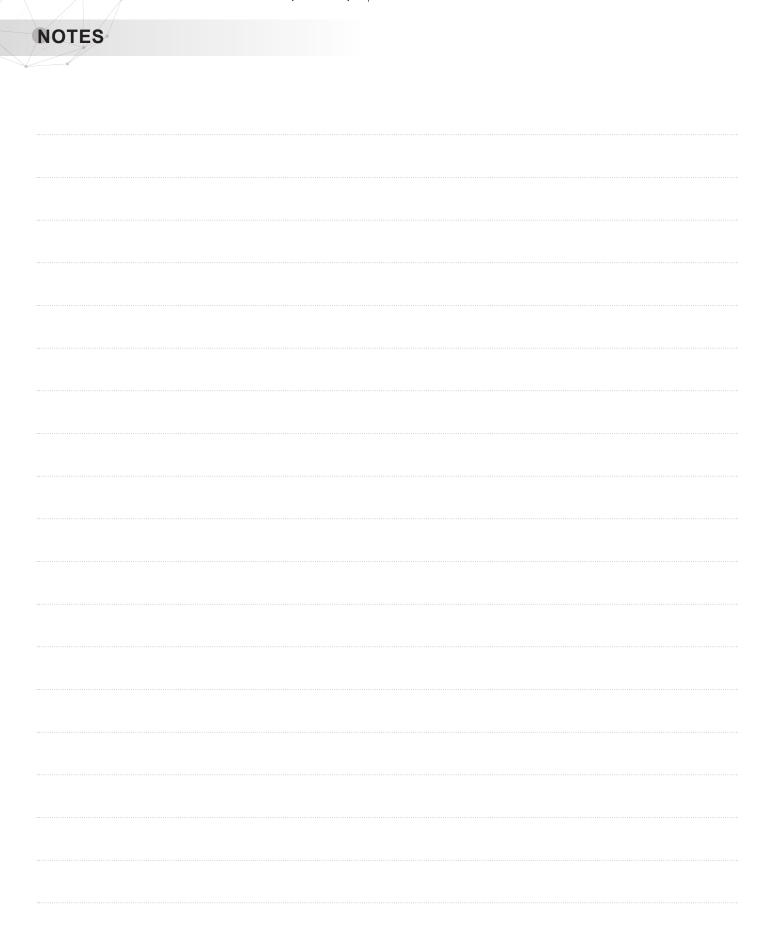
o. Attao	- Attachonion codo										
	Ring		I.D. (mm)	For shell size							
01	©=	Small	3,20								
15			11,30	6							
16			14,48	7,8							
17		Large	16,13	9							
18	9		17,35	10							
19			22,48	13							

3. Service class

M	Electroness Nickel
NF	Olive Drab Cadmium
ZNU	Black Zinc Nickel

4. Attachement type

Nylon Rope
Stainless Steel Wire Ron, Teflon, Jacket



ABOUT AMPHENOL

Founded in 1932, **Amphenol** is one of the largest manufacturers of interconnect products in the world. The company designs, manufactures, and markets electrical, electronic, and fiber optic connectors, interconnect systems, and coaxial and specialty cables.

Amphenol has a diversified presence as a leader in high growth areas of the interconnect industry and provides solutions for customers in the automotive, broadband, industrial, information technology and data communications, military and aerospace, mobile devices, and mobile networks markets.

More info on www.amphenol.com



Amphenol Military & Aerospace Operations (AMAO) has the largest and broadest selection of interconnect products in the military and aerospace markets.

More info on www.amphenolmao.com

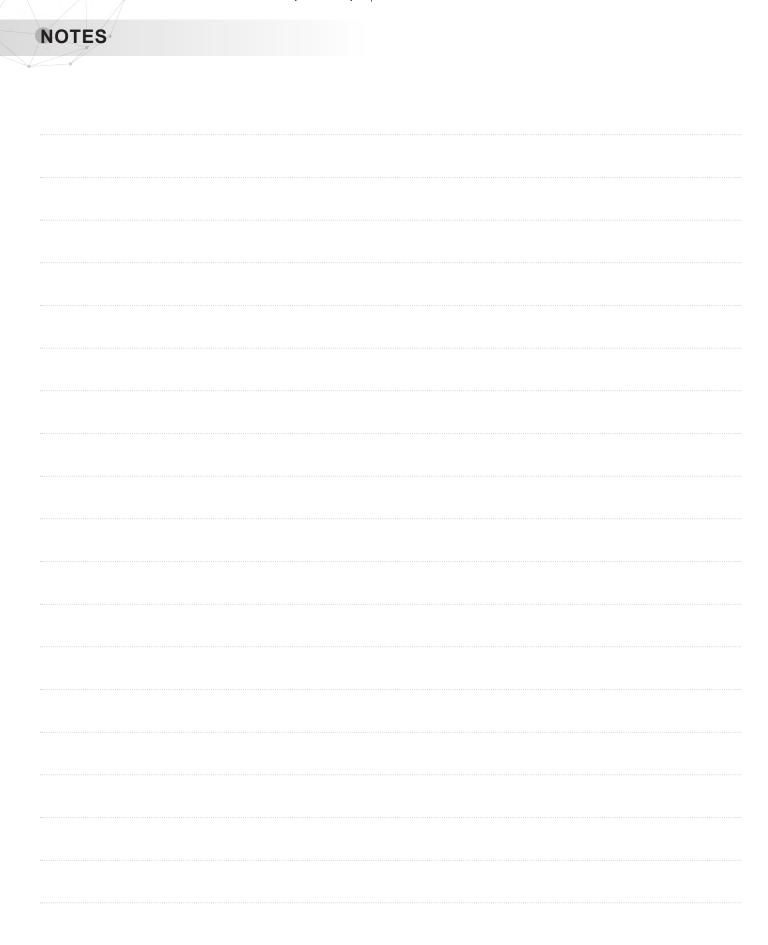


Europe			
FRANCE	Amphenol AIR LB	2 rue Clément Ader, ZAC de Wé - 08110 Carignan	+33 3 24 22 78 49
FRANCE	Amphenol SEFEE	Z.I. des Cazes – BP243 - 12402 Saint-Affrique Cedex	+33 5 65 98 11 00
GERMANY	Amphenol AIR LB GMBH	Am Kleinbahnhof 4 - 66740 Saarlouis	+49 6831 981 00
ITALY	Amphenol EUROPEAN SALES OPERATIONS	Via Barbaiana n.5 - 20020 Lainate - Milano	+39 293 254 214
UNITED KINGDOM	Amphenol INVOTEC	Unit 1-3, Hedging Lane Industrial Estate, Dosthill - Tamworth, B77 5HH	+44 1827 263 000
UNITED KINGDOM	Amphenol IONIX SYSTEMS	Prospect House, Taylor Business Park, Risley, Warrington, WA3 6HP	+44 1 942 685 200
UNITED KINGDOM	Amphenol LTD	Thanet Way, Whitstable - KENT, CT53JF	+44 1227 773 200
UNITED KINGDOM	Amphenol MARTEC	St Augustines Business Park, Swalecliffe Whitstable - Kent CT5 2QJ	+44 1227 793 733

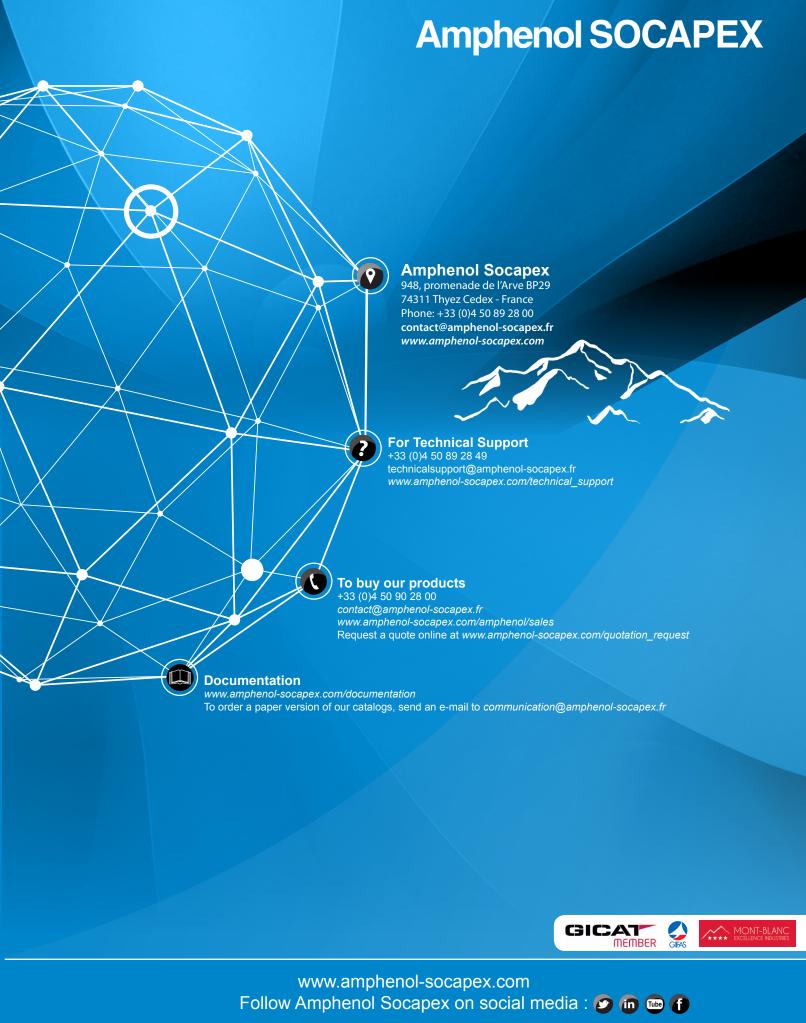
NOILIIA	illerica		
CANADA	Amphenol CANADA	605 Milner avenue - Toronto, Ontario	+1 416 291 0647
USA	Amphenol AEROSPACE OPERATIONS	40-60 Delaware street - Sidney, NY 13838	+1 800 678 0141
USA	Amphenol BORISH TECHNOLOGIES	4511 East Paris AVE - Grand Rapids, MI 49512	+1 616 554 9820
USA	Amphenol FSI	1300 Central Expwy N, Suite 100 - Allen, TX 75013	+1 214 547 2400
USA	Amphenol GRIFFITH ENTERPRISES	6000 East Coury Drive - Cottonwood, AZ 86326	+1 928 634 3685
USA	Amphenol NEXUS TECHNOLOGIES	50 Sunnyside Avenue - Stamford, CT 06902	+1 203 327 7300
USA	Amphenol PCD	72 Cherry Hill Drive - Beverly, MA. 01915	+1 978 624 3400
USA	Amphenol PRINTED CIRCUIT	Board Technology, 91 Northeastern Boulevard - Nashua, NH 03062	+1 603 324 4500
USA	Amphenol SV MICROWAVE	2400 Centrepark West Drive - West Palm Beach, FL	+1 561 840 1800
USA	Amphenol TIMES MICROWAVE	358 Hall Avenue - Wallingford, CT 06492	+1 800 867 2629

Asia			
CHINA	Amphenol PCD CO.	Building 21, 1st Liao Keng Industrial Zone, Shi Yan Street - Bao An District - Shenzhen 518108	+86 755 8173 8000/8286
INDIA	Amphenol INTERCONNECT INDIA	105 Bhosari Industrial Area - Pune 411 026	+91 20 27120363
JAPAN	Amphenol JAPAN	471-1, Deba, Ritto-City - Shiga 520 3041	+81 77 553 8501
KOREA	Amphenol DAESHIN	558 SongNae-Dong SoSa-Gu, Bucheon-city, Kyunggi-Do - 420-130	+81 32 610 3830/3845
SINGAPORE	Amphenol EAST ASIA	26/F, Railway Plaza, 39 Chatham Road South, Tsim Sha Tsui, Kowloon, Hong Kong	+65 6294 2128

Other Are	as		
AFRICA	Amphenol AFRICA	30 Impala Rd - Sandton 2146	+27 82 410 5179
ARGENTINA	Amphenol ARGENTINA	Av. Callao 930 2do piso Oficina B "Plaza" C1023 - AAP Buenos Aires	+54 11 4815 6886
AUSTRALIA	Amphenol AUSTRALIA PTY	2 Fiveways Blvd., Keysborough - Melbourne - Victoria 3173	+61 3 8796 8888
BRAZIL	Amphenol DO BRAZIL	Rua Diogo Moreira, 132, 20 andar, rooms 2001-2-3	+55 11 3815 1003
ISRAEL	Amphenol BAR-TEC	3 Hagavish Street, K fir-Barkan Bldg. East Industrial Zone - Kfar-Sava, 44102	+972 9 764 4100
MEXICO	Amphenol OPTIMIZE	Carretera Internacional Km 6.5, Col. Parque Industrial, Nogales, Sonora, C.P. 84094	+52 631 311 160
NEW ZEALAND	Amphenol PHITEK	Level 4, 2 Kingdon Street, Newmarket, Auckland 1023	+64 9 524 2984
RUSSIA	Amphenol RUSSIA	Yaroslavskaja Street 8 - 129164 Moscow	+7 495 937 6341
TURKEY	Amphenol TURKEY	Sun Plaza 15 Kat: 15 Maslak Hah. Bilim Sok. No.5 - Sisli/Istanbul, 34398	+90 212 367 92 19







This catalog uses paper from managed forests, PEFC & FSC labels, and is printed by a printer certified "Imprim Vert®"

We reserve the right to modify our products in any way we deem necessary.

Any duplication is prohibited, unless approved in writing.