

Amphenol SOCAPEX

2M Micro Miniature

*A selection of Mil/Aero miniature connectors
with premium service for Europe*



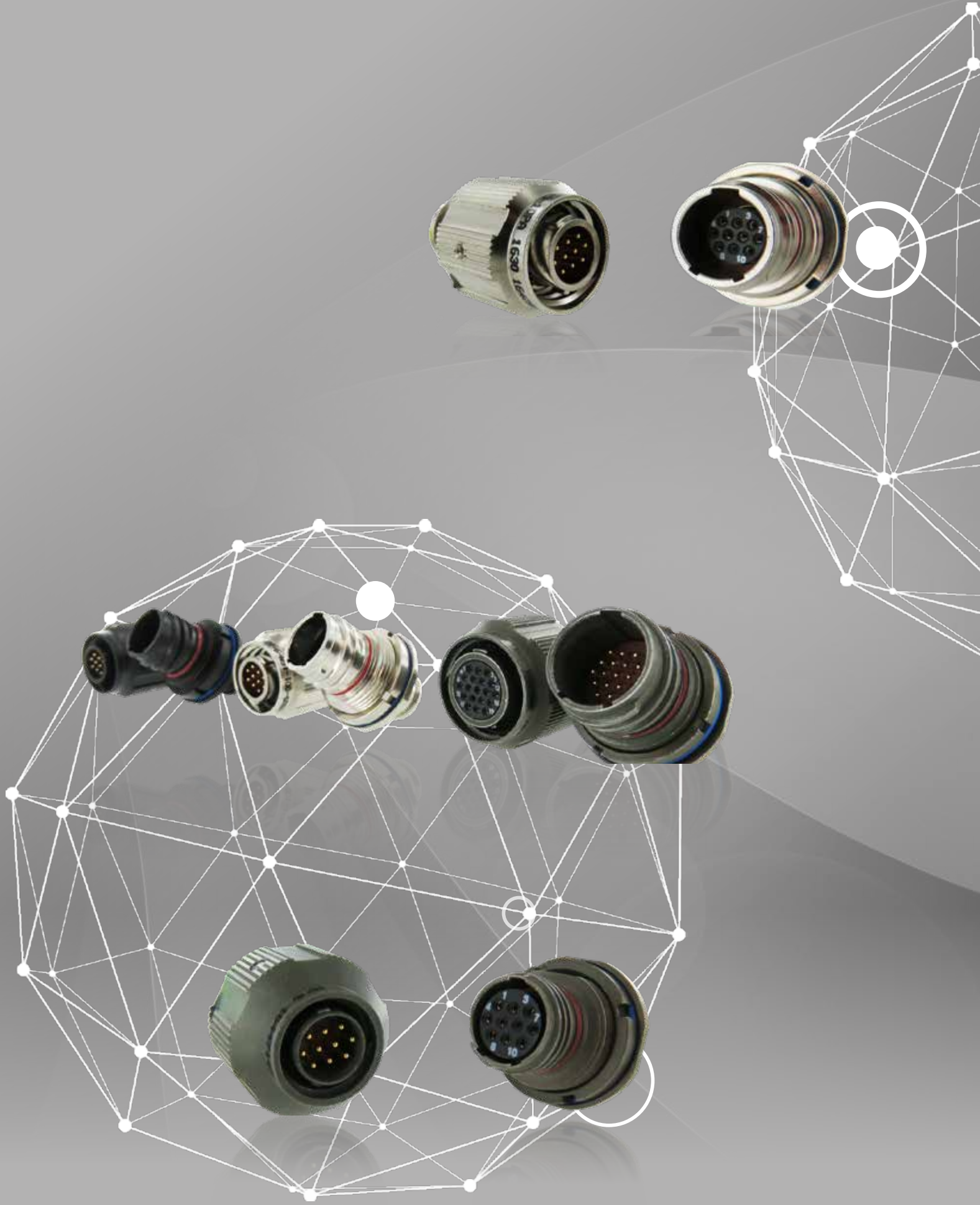


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OUR COMPANY



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 serve customers in over 100 countries around the world.
- Amphenol Socapex is part of the leading supplier of interconnect systems **Amphenol**.



1100+
employees



109 M€
Net Sales 2022
71% Export - 29% France



Thyez, **France**
Pune, **India**



Our expertise has no boundaries

Integrated Production in France & India

- 24 000 m² manufacturing capacity on 2 sites
- Design and manufacturing centers in France and India
- State-of-the-art manufacturing technology

Our markets



Military



**Commercial
Aerospace**



Space



Industry



TECHNOLOGIES & INNOVATION

Engineering Laboratory



Product testing and qualification expertise in many fields:

- Environmental, mechanical, electrical, chemical, climatic skills
- RF and fiber optics expertise

High-Speed Expertise



Strong expertise in high-speed signals

- 3D EM simulation software & EM models
- Time Domain and frequency domain

Materials Expertise



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

- Advanced technology research and development: polymers, metals, platings, resins ...
- Cutting edge characterizations of interconnects: Radio Frequency, partial discharges ...
- 3D CAD mechanical software, simulation & analysis

Eco-responsibility



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.

Automation & Tooling : Tools for our different activities : molding, machining, assembly

Molding : Solid expertise in thermoplastic elastomer and thermoset molding

Machining : Manufacturing of cylindrical shells and rectangular shells

Screw Machining : Manufacturing of electrical contacts

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

Assembly : Connector and harness assembly (electrical & optical)

Our certifications

Product certifications : MIL-DTL38999, EN3645, EN3155, VG (VG95328, VG95319, VG96944, VG95218, VG96949)



Certified Management System



Certified Management System



Certified Management System



Certified Management System

Our memberships

Member of CMG (Connecting Manufacturing Group) Consortium



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

Customer Proximity	Design Expertise	Quality Commitment	On Time Delivery Performance	Compliance management

Buy our solutions

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

Field Sales Team :

- 10 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 Advisement & Multilingual Customer Service :

20 people



Worldwide Distribution Network :

Our range of circular connectors, contacts, fiber optic connectors, PCB connectors and accessories are available thru our extensive distribution network.

It includes qualified distributors (QPL approved) for assembling MIL-DTL-38999 & derivatives and PT/451 (VG95328) connectors.

[Check our product inventory](#)



[Product Selectors & 3D Files](#)



NEW



OUR HISTORY

1947



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

1956-57



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

Early 1960's



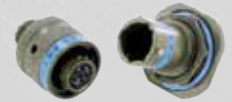
- 1st board level connectors: HE8
- 1st "licence Bendix" manufactured connectors
- SL Series

1973



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

1975



Production of 38999 connectors

1986

Amphenol
Socapex

Amphenol becomes primary shareholder

1995-96



- Expanded Beam connector CTOS launch
- Headquarters transferred to Thyez

2004



RJ Field launch, "Award Electronica"

2005



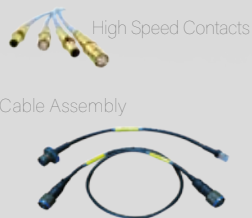
New factory in Pune, India

2010's



LuxBeam™ and HDAS launch

2014-2017



New workshops :
- Cable Assembly & Contact Manufacturing workshop

2019



Increased manufacturing capacity with 2nd building in Pune, India

2022



Harness in the box solution launch

Today & tomorrow



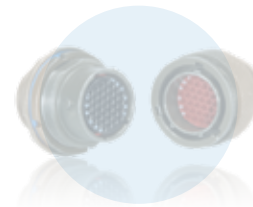
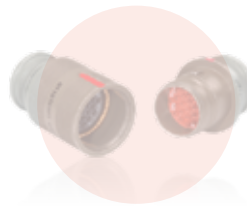
New technologies :
- Investment in automation & technical expertise



Amphenol SOCAPEX joins the "Convention des Entreprises pour le Climat".
- Our goal: to accelerate our transition to a more sustainable operation.

COMPLETE 2M SERIES BY AMPHENOL

Selection table



SERIES	2M801	2M805	2M804	2M803
Type	Dual-Start ACME Thread	Tri-Start ACME Thread	Push-Pull	Bayonet
Description	More rugged keys and threads. Faster mating.	"Anti-Decoupling" ratchet mechanism and ground spring for military airframes and avionics boxes. Fast mating	Breakaway connector for headsets and tactical equipment. 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.
Contacts	1 to 130	1 to 130	1 to 85	1 to 55
Coupling	Threaded Coupling with 1 ½ Turns to Full Mate	Tri-Start Thread	Push-Pull Quick-Disconnect	¼ turn lock Bayonet
Water immersion, mated	MIL-STD-810 Method 512 1 Meter for 1 Hour IPX8	MIL-STD-810 Method 512 1 Meter for 1 Hour IPX8	MIL-STD-810 Method 512 1 Meter for 1 Hour IPX8	Splashproof IPX6
EMI Shielding	Very Good	Excellent	Excellent	Fair
Vibration and shock	43.9 g's Random Vibration, Sine Vibration 60 g; 300 g's 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
Mating cycles	2000 Cycles (-16 Plugs) 500 Cycles (-26 Plugs)	500 Cycles	2000 Cycles	1000 Cycles Aluminum 2000 Cycles Stainless Steel
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

Available at Amphenol Aerospace
Please consult us for resales

2M TOP RUNNERS FOR EUROPE BY AMPHENOL SOCAPEX

2M Micro Miniature connectors Series for Europe

By Amphenol, the 2M connector series has been a flagship product since years, with huge attends from our customers, especially for new design projects and harnesses. First developed by our sister company Amphenol Aerospace Operation and 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 3 000 "Top Runner" for our customers in Europe, including 805 and 801 series corresponding to the Tri-start and Dual-start series.

These configurations are the most common on the market including plugs, jam nut and square flange receptacles, both with integrated backshell or soldering on PCB versions for receptacles. Obviously all corresponding accessories are also available : caps, shrink boots or tools.

New design project ?



Need of MINIATURIZATION and WEIGHT SAVING ?



Need of GOOD PRICE, PERFECT SERVICE and FAST DELIVERY ?

2M Micro Miniature Connectors
A selection* of references with high service

2M801 Dual-start 2M805 Tri-start

6 SHELL SIZES WITH 19 ARRANGEMENTS

2M801	6-1	6-7	6-23	7-10	8-13
2M805	8-1	8-7	8-23	9-16	10-13
2M801	9-19	9-200	10-26	13-37	
2M805	11-19	11-200	12-26	15-37	

3 PLATING

- Olive Drab Cadmium
- Black Zinc Nickel
- Electroless Nickel

3 CONTACTS SIZES

- #23
- #20HD
- #16

SHELLS CONFIGURATIONS

- Plugs with Integrated Backshells
- Jam Nut & Square Flange receptacles with Integrated Backshells
- Stand Off receptacles

***OVER 600 PART NUMBERS**

Find your dream configuration with our online configurator !

2M805 Configurator

Scan & discover !

2M801 Configurator

Scan & discover !

AMPHENOL SOCAPEX HARNESSES CAPABILITIES



Since 2014, Amphenol Socapex offer an electrical harness option around connectors, to provide our customers a turnkey solution !

- 200 experienced team members dispatched in 8 dedicated cabling lines dedicated by product type, in a 700m² assembly shop in Pune, India.
- A cost advantage for all harnesses that include our legacy products, 2M, 38999, PT/451, RJF & USBF, High speed solutions (Quadrax, Octomax, Twinax, Coax, RF contacts), Accessories,...
- State of the art capabilities :

Engineering

Flattening (form boards) of electrical harness,
Wiring Diagram and hook-up to manufacturing files
Data base & configuration management, pins allocation, routing files
Programming for automatic electrical test
Integration of mechanical parts
Following your installation constraints on your Structure/Vehicle : Cutting plates, feedthrough, racks, brackets.

Full production capabilities

Stripping & crimping hand tools for standard wires
Sleeve Heat-shrinking
Manufacturing jigboards
Dedicated workstations for 1st extremities
Laser stripping for smaller wires / nick free stripping.

Field Cabling Specialists

Both in France and India, our team have capability to make your drawings, to take dimensions on your mock-up and perform modifications or reparations in situ



Full testing capabilities in climate controlled area

Fully automated / programmable electrical testing machines.
Network analyzer for Ethernet and high-speed cable assemblies
VNA for co-axial / RF cable assemblies

Improved logistics flows

Our self Management of the connectors and accessories supply chain to reduce and secure the harness lead times

A real expertise

Whether in the harsh environments applications and market, on the components or harnesses, we rely on all Amphenol know-how to provide you with the best products, to fit all your needs.

2M SERIES OVERMOLDING CAPABILITIES

Amphenol Socapex offers overmolding solutions on 2M products.

The overmolding technology is particularly well adapted to micro miniature connectors such as 2M, and is suitable for many applications such as military, industrial, telecom, etc. This technology confers a very strong and sealed junction between the connector/backshell and the cable, and the appearance is very clean.

For your special needs for very harsh environment, we can help you by performing tests in our technical laboratory (pulling tests, bending moment, thermal shocks,...)

Amphenol Socapex is qualified by Wiring Harness Manufacturer's Association.



Example of overmolded Cordset made by Amphenol Socapex



Injection molding machines YUH-DAK YC-40 2S (40 Tonnage for both)

2M805 Series Integrated Backshell Overmolding

2M805 PLUG STRAIGHT



Already tooled up : sizes 08, 09, 10, 11, 12, & 15

2M805 PLUG RIGHT ANGLE



Already tooled up : sizes 09 & 12

⇒ New mold time development : 8 weeks, do not hesitate to consult us for your configuration

GENERAL CHARACTERISTICS

Markets and applications

Technical Characteristics

2M805

2M801

Accessories

How to order



Military vehicles

- 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



Navy

- Threat detection systems
- Radars
- Network infrastructure



Industrial

- Rail mass transit
- Wifi connexion



GENERAL CHARACTERISTICS

Description



- Microminiature connector
- 2M801 & 2M805 available with good lead times & perfect quality
- 2M805 (Tri-start thread) EN & QPL standards in progress
- Dedicated to harsh environment applications
- Perfectly suitable for new design project
- Integrated backshell for crimp versions
- 34 arrangements
- 11 sizes
- 4 platings over Aluminum : Olive drab cadmium, Nickel, Blanck zinc nickel, Durmalon (Ni-PTFE)

Material and platings

Component	Material
Aluminum shell, barrel and coupling nut	Aluminum alloy 6061 T6
Shell finish	Electroless Nickel ✓ Olive Drab Cadmium Black Zinc Nickel ✓ Durmalon (Ni-PTFE) ✓
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 versions	High strength epoxy

✓ : RoHS compliant

Contacts

- Standard contacts plated with a minimum of 1.27µm gold
- Size 12, 16, 20HD and 23
- Size 12 coaxial contacts



Signal



Coax 75Ω



Legacy Coax

All dimensions are given for information only and are in mm

TECHNICAL CHARACTERISTICS

Materials characteristics

Shell Material	Shell finish	Salt Spray exposure per EIA 364-26	Operating temperature (C°)	
			Min	Max
Aluminum	Electroless Nickel ✓	48	-65	+150
	Olive Drab Cadmium			
	Black Zinc Nickel ✓	500		
	Durmalon (Ni-PTFE) ✓			

✓ : RoHS compliant

Mechanical characteristics

Characteristics	Performance	Procedure
Durability	500 mating cycles	EIA-364-09
Shock	300 G ± 15	EIA-364-27 Condition D 300 G, halfsine, 3ms, 3 axes
Random vibrations	43,9 g RMS	EIA-364-28 Test Condition V Letter I 100 milliamp test current 50- 2,000 Hz @ temp.
Sine vibrations	60 g RMS	MIL-STD-202 Method 204, test Condition G 12 sweep cycles per axes, 20 min. per 10-2000-10Hz @ temp.

Environmental characteristics

Characteristics	Requirement	Procedure
Humidity	No deterioration which will adversely affect the connector. 100 Mohms 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. ≥100Ω insulation resistance.	MIL-STD-810F Method 512.4 1 meter immersion 1 hour
Water immersion, open face sealed receptacle with non-removable PC tails or solder cup contacts	Connectors with waterblock potting process. 1 X 10-4 cc/second maximum helium leak rate at 1 atmosphere pressure differential following thermal shock conditioning.	EIA-365-02 3 cycles thermal shock -57°C to +71°C 75 min. dwell 5 minute transfer rate
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 mm

TECHNICAL CHARACTERISTICS

Electrical characteristics

Procedure	Characteristic	2M801 Series	2M805 Series	
Shell-to-shell conductivity per EIA-364-83 Electroless Nickel Plated Connectors	Initial	2,5 mV	2 mV	
	After 48 hours salt spray	2,5 mV	2 mV	
Shielding effectiveness per EIA-364-21 Electroless Nickel Plated Connectors	Low frequency	100 MHz	75 dB Min	90 dB Min
		200 MHz	70 dB Min	88 dB Min
		300 MHz	65 dB Min	88 dB Min
		400 MHz	63 dB Min	87 dB Min
		800 MHz	58 dB Min	85 dB Min
	High frequency	1 GHz	55 dB Min	85 dB Min
		3 GHz	50 dB Min	69 dB Min
		5 GHz	45 dB Min	66 dB Min
		19 GHz	40 dB Min	65 dB Min

Service rating

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

Contacts characteristics

Characteristic	#23	#20HD	#16	#12
Crimp Contacts Maximum Current Rating (Amps)	5	7,5	13	23
Contact resistance (Test Current)	73mV drop at 5A	55 mV drop at 7,5A	49 mV drop at 13A	42 mV at 23A
Insulation resistance	5 000 MΩ min			
Contact retention per EIA-364-29 (N)	45	45	111	111
Separation forces per SAE AS39029 (N)	0.14	0.19	0.56	0.83
AWG	#22 - #28	#20 - #24	#16 - #20	#12 - #14

All dimensions are given for information only and are in mm

SELECTION OF INSERT ARRANGEMENTS

Front face of male insert shown

Contact Size	12	16	20HD	23
Caption				



COMING SOON



2M801	5-3
2M805	NA
Nbr of contacts	3
Contacts sizes	#23
DWV Voltage (VAC)	750
Current Rating (Amps)	5

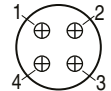
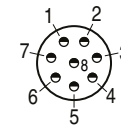
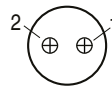
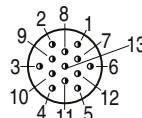
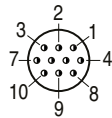
2M801	6-1
2M805	8-1
Nbr of contacts	1
Contacts sizes	#16
DWV Voltage (VAC)	1800
Current Rating (Amps)	13

2M801	6-23
2M805	8-23
Nbr of contacts	3
Contacts sizes	#20HD
DWV Voltage (VAC)	1000
Current Rating (Amps)	7.5

2M801	6-4
2M805	8-4
Nbr of contacts	4
Contacts sizes	#23
DWV Voltage (VAC)	750
Current Rating (Amps)	5

2M801	6-6
2M805	8-6
Nbr of contacts	6
Contacts sizes	#23
DWV Voltage (VAC)	750
Current Rating (Amps)	5

2M801	6-7
2M805	8-7
Nbr of contacts	7
Contacts sizes	#23
DWV Voltage (VAC)	750
Current Rating (Amps)	5



2M801	7-10
2M805	9-10
Nbr of contacts	10
Contacts sizes	#23
DWV Voltage (VAC)	750
Current Rating (Amps)	5

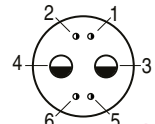
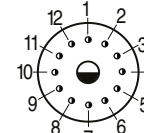
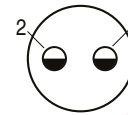
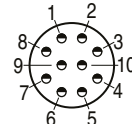
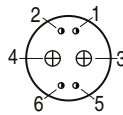
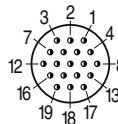
2M801	7-25
2M805	9-25
Nbr of contacts	5
Contacts sizes	#20HD
DWV Voltage (VAC)	1000
Current Rating (Amps)	7.5

2M801	8-13
2M805	10-13
Nbr of contacts	13
Contacts sizes	#23
DWV Voltage (VAC)	750
Current Rating (Amps)	5

2M801	8-2
2M805	10-2
Nbr of contacts	2
Contacts sizes	#16
DWV Voltage (VAC)	1800
Current Rating (Amps)	13

2M801	8-28
2M805	10-28
Nbr of contacts	8
Contacts sizes	#20HD
DWV Voltage (VAC)	1000
Current Rating (Amps)	7.5

2M801	9-4
2M805	11-4
Nbr of contacts	4
Contacts sizes	#16
DWV Voltage (VAC)	1800
Current Rating (Amps)	13



2M801	9-19
2M805	11-19
Nbr of contacts	19
Contacts sizes	#23
DWV Voltage (VAC)	750
Current Rating (Amps)	5

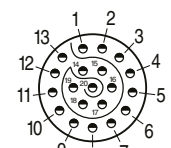
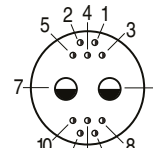
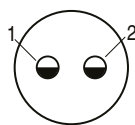
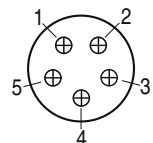
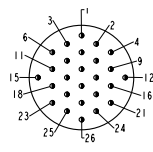
2M801	9-200
2M805	11-200
Nbr of contacts	2 4
Contacts sizes	#16 #23
DWV Voltage (VAC)	1800 750
Current Rating (Amps)	5 13

2M801	9-210
2M805	11-210
Nbr of contacts	10
Contacts sizes	#20HD
DWV Voltage (VAC)	1000
Current Rating (Amps)	7.5

2M801	10-2
2M805	12-2
Nbr of contacts	2
Contacts sizes	#12
DWV Voltage (VAC)	1800
Current Rating (Amps)	13

2M801	10-200
2M805	12-200
Nbr of contacts	1 4
Contacts sizes	#12 #23
DWV Voltage (VAC)	1800 750
Current Rating (Amps)	23 5

2M801	10-201
2M805	12-201
Nbr of contacts	2 4
Contacts sizes	#12 #23
DWV Voltage (VAC)	1800 750
Current Rating (Amps)	23 5



2M801	10-26
2M805	12-26
Nbr of contacts	26
Contacts sizes	#23
DWV Voltage (VAC)	750
Current Rating (Amps)	5

2M801	10-5
2M805	12-5
Nbr of contacts	5
Contacts sizes	#16
DWV Voltage (VAC)	1800
Current Rating (Amps)	13

2M801	13-2
2M805	15-2
Nbr of contacts	2
Contacts sizes	#12
DWV Voltage (VAC)	1800
Current Rating (Amps)	23

2M801	13-201
2M805	15-201
Nbr of contacts	2 10
Contacts sizes	#12 #23
DWV Voltage (VAC)	1800 750
Current Rating (Amps)	23 5

2M801	13-220
2M805	15-220
Nbr of contacts	20
Contacts sizes	#20HD
DWV Voltage (VAC)	1000
Current Rating (Amps)	7.5

All dimensions are given for information only and are in mm

SELECTION OF INSERT ARRANGEMENTS

Front face of male insert shown

Contact Size	12	16	20HD	23
Caption				

2M801				
2M805				
Nbr of contacts	12	16	20	23
Contacts sizes	#12	#16	#20HD	#23
DWV Voltage (VAC)	1800	1800	1800	1800
Current Rating (Amps)	5	5	5	5
2M801				
2M805				
Nbr of contacts	12	16	20	23
Contacts sizes	#12	#16	#20HD	#23
DWV Voltage (VAC)	1800	1800	1800	1800
Current Rating (Amps)	5	5	5	5
2M801				
2M805				
Nbr of contacts	12	16	20	23
Contacts sizes	#12	#16	#20HD	#23
DWV Voltage (VAC)	1800	1800	1800	1800
Current Rating (Amps)	5	5	5	5
2M801				
2M805				
Nbr of contacts	12	16	20	23
Contacts sizes	#12	#16	#20HD	#23
DWV Voltage (VAC)	1800	1800	1800	1800
Current Rating (Amps)	5	5	5	5

All dimensions are given for information only and are in mm

SELECTION OF INSERT ARRANGEMENTS

Not tooled insert arrangements (contact us for availability)

Technical Characteristics

2M805

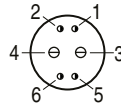
2M801

Accessories

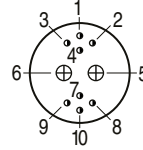
How to order



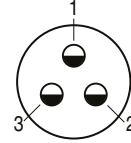
2M801
2M805
Nbr of contacts
Contacts sizes
DWV Voltage (VAC)
Current Rating (Amps)



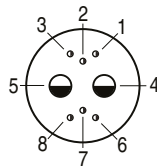
7-1	8-200
9-1	10-200
1	2 4
#12	#20 #23
1800	1000 750
23	7 5



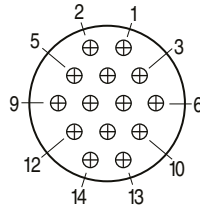
10-202	12-202
2	8
#16	#23
1800	750
13	5



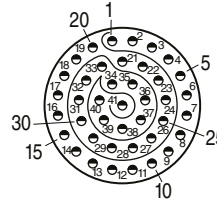
13-3
15-3
3
#12
1800
23



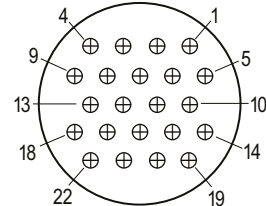
2M801
2M805
Nbr of contacts
Contacts sizes
DWV Voltage (VAC)
Current Rating (Amps)



13-200	17-14
15-200	19-14
2 6	14
#12 #23	#16
1800 750	1800
23 5	13



17-241	19-241
41	#20HD
750	
7.5	



21-22
23-22
22
#16
1800
13

All dimensions are given for information only and are in mm

SELECTION OF INSERT ARRANGEMENTS


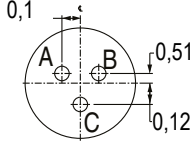
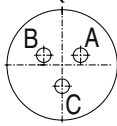

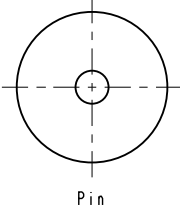
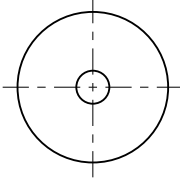

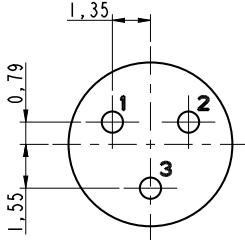
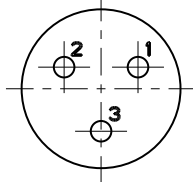

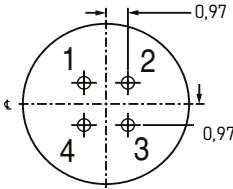
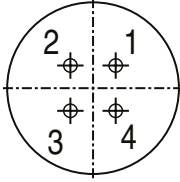

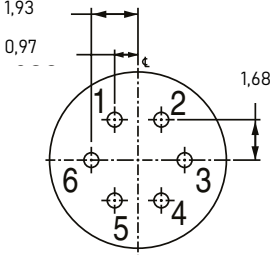
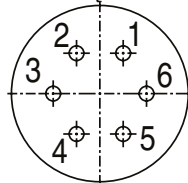

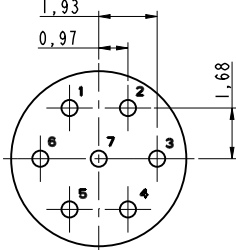
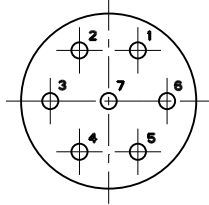
Insert arrangements table

Inserts Arrangements		Contact Quantity				Dielectric withstanding voltage (VAC)	Current rating
2M801	2M805	#23	#20HD	#16	#12		
5-3	-	3				750 VAC	5 A
6-4	8-4	4					
6-6	8-6	6					
6-7	8-7	7					
7-10	9-10	10					
8-13	10-13	13					
9-19	11-19	19					
10-26	12-26	26					
13-37	15-37	37					
16-55	18-55	55					
17-85	19-85	85					
21-130	23-130	130					
6-23	8-23		3			100 VAC	7,5 A
7-25	9-25		5				
8-28	10-28		8				
9-210	11-210		10				
13-220	15-220		20				
16-235	18-235		35				
17-241	19-241		41				
21-269	23-269		69				
6-1	8-1			1		1800 VAC	13 A
8-2	10-2			2			
9-4	11-4			4			
10-5	12-5			5			
13-7	15-7			7			
16-12	18-12			12			
17-14	19-14			14			
21-22	23-22			22			
10-2	12-2				2	1800 VAC	23 A
13-2	15-2				2		
16-5	18-5				5		
7-1	9-1				1		
13-3	15-3				3		
17-7	19-7				7		
21-12	23-12				12		
9-200	11-200	4		2		Insert arrangements with mixed size (combo) layouts Consult insert tables page 16 to 19	
10-201	12-201	4			2		
13-201	15-201	23			2		
8-200	10-200	4					
10-202	12-202	8		2			
13-200	15-200	6			2		
10-200	12-200	12			0		

All dimensions are given for information only and are in mm

STRAIGHT PCB FOOTPRINT

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

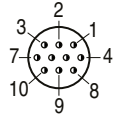
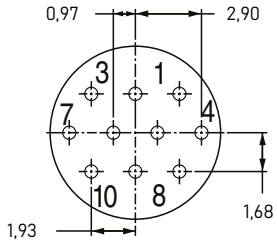
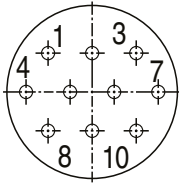
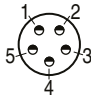
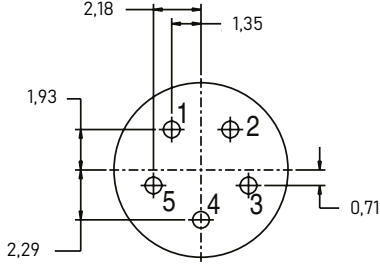
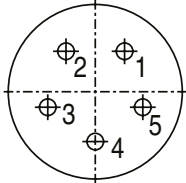
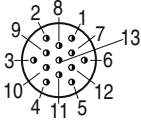
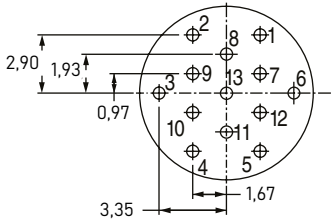
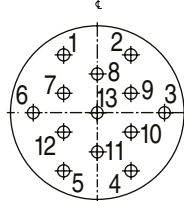
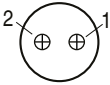
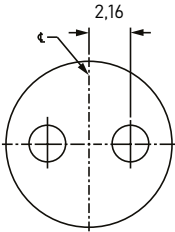
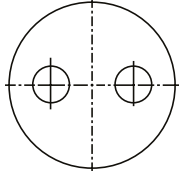
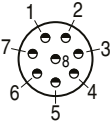
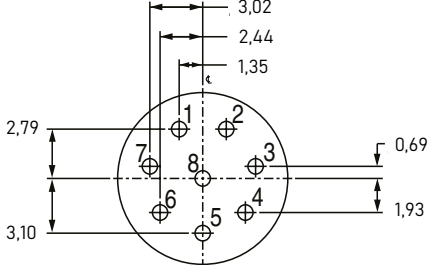
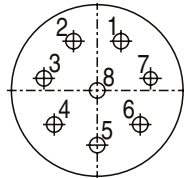
INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>5-3 (3) #23 Contacts 0,22 Max. Dia. Tail</p>		
 <p>6-1, 8-1 (1) #16 Contacts</p>	 <p>Pin</p>	
 <p>6-23, 8-23 (3) #20HD Contacts 0,58 Max. Dia. Tail</p>		
 <p>6-4, 8-4 (4) #23 Contacts 0,56 Max. Dia. Tail</p>		
 <p>6-6, 8-6 (6) #23 Contacts 0,56 Max. Dia. Tail</p>		
 <p>6-7, 8-7 (7) #23 Contacts 0,56 Max. Dia. Tail</p>		

All dimensions are given for information only and are in mm

Technical Characteristics
2M805
2M801
Accessories
How to order

STRAIGHT PCB FOOTPRINT

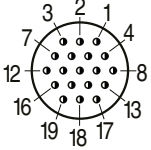
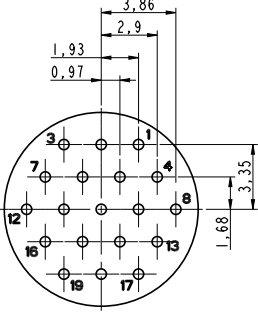
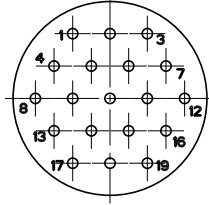
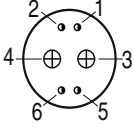
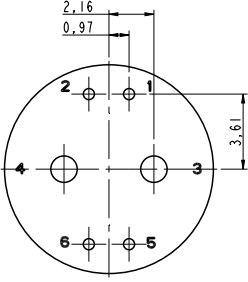
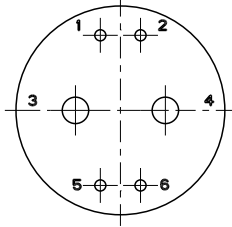
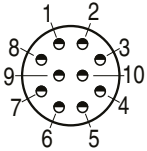
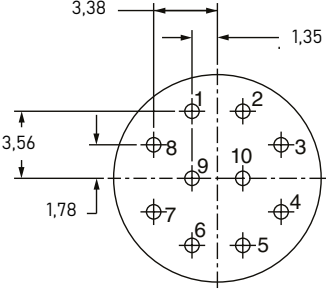
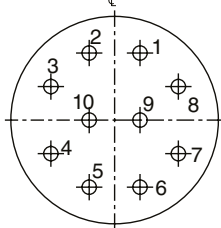
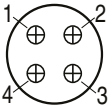
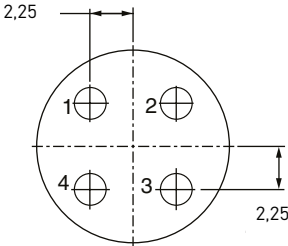
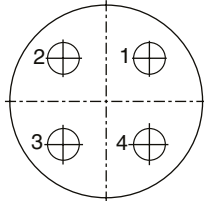

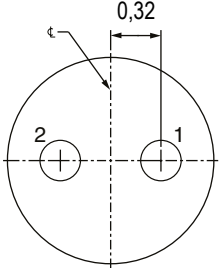
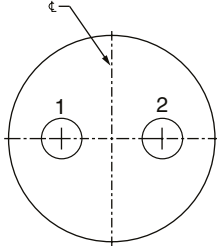
Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>7-10, 9-10 (10) #23 Contacts 0,56 Max. Dia. Tail</p>		
 <p>7-25, 9-25 (5) #20HD Contacts 0,58 Max. Dia. Tail</p>		
 <p>8-13, 10-13 (13) #23 Contacts 0,56 Max. Dia. Tail</p>		
 <p>8-2, 10-2 (2) #16 Contacts</p>		
 <p>8-28, 10-28 (8) #20HD Contacts 0,58 Max. Dia. Tail</p>		

All dimensions are given for information only and are in mm

STRAIGHT PCB FOOTPRINT

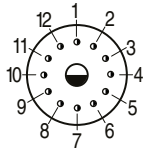
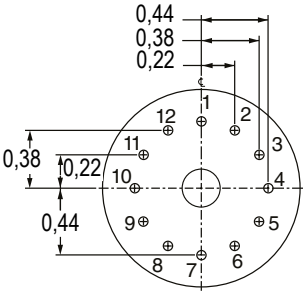
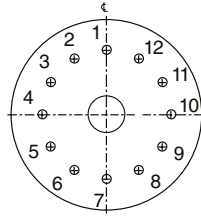
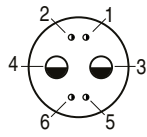
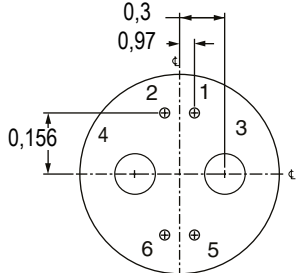
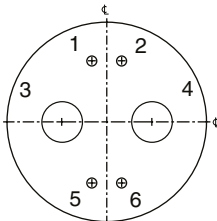
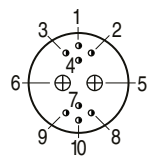
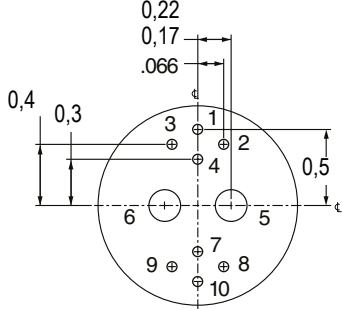
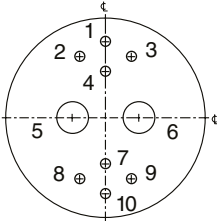
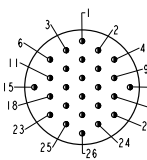
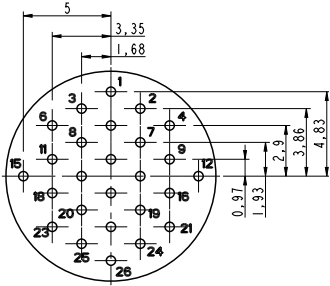
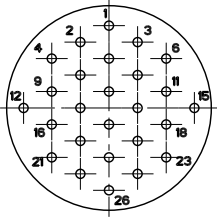
Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>9-19, 11-19 (19) #23 Contacts 0,56 Max. Dia. Tail</p>		
 <p>9-19, 11-19 (19) #23 Contacts 0,56 Max. Dia. Tail</p>		
 <p>9-200, 11-200 (4) #23 Contacts (2) #16 Contacts</p>		
 <p>9-4, 11-4 (4) #16 Contacts</p>		
 <p>10-2, 12-2 (2) #12 Contacts</p>		

All dimensions are given for information only and are in mm

STRAIGHT PCB FOOTPRINT

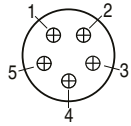
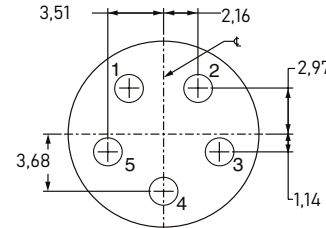
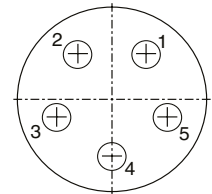
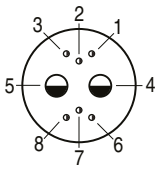
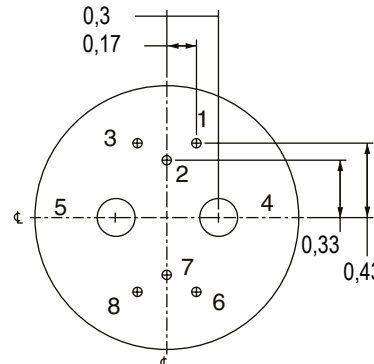
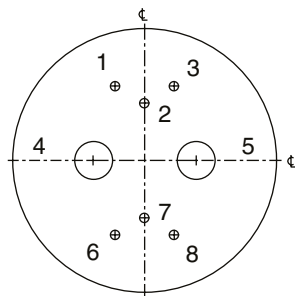
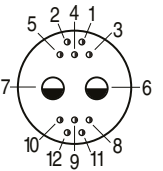
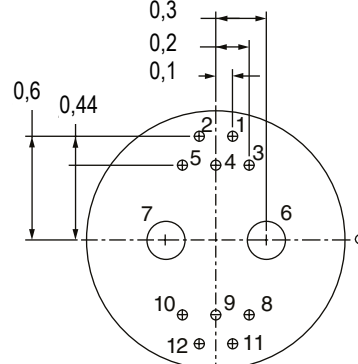
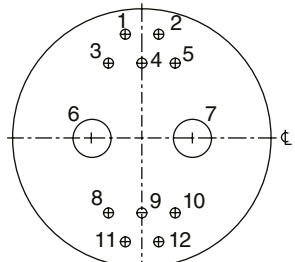
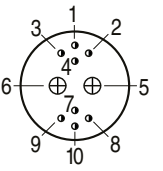
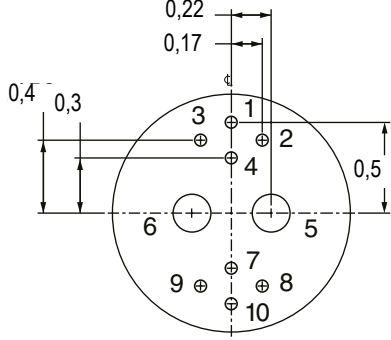
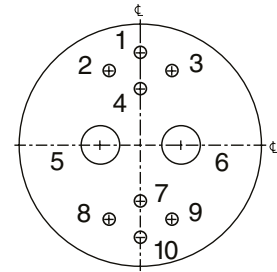
Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>10-200*, 12-200* (1) #12 Contact (12) #23 Contacts</p>		
 <p>10-201, 12-201 (2) #12 Contacts (4) #23 Contacts</p>		
 <p>10-202*, 12-202* (2) #16 Contacts (8) #23 Contacts</p>		
 <p>10-26, 12-26 (26) #23 Contacts 0,56 Max. Dia. Tail</p>		

All dimensions are given for information only and are in mm

STRAIGHT PCB FOOTPRINT

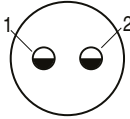
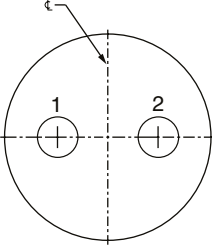
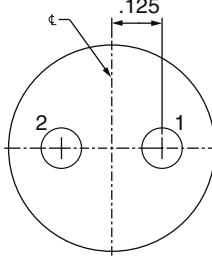
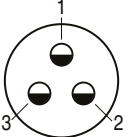
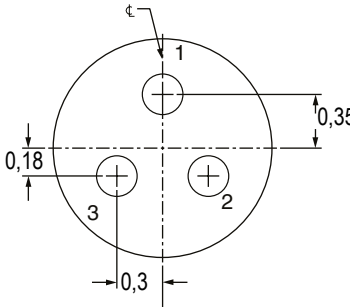
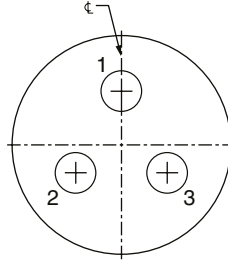
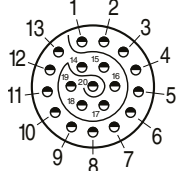
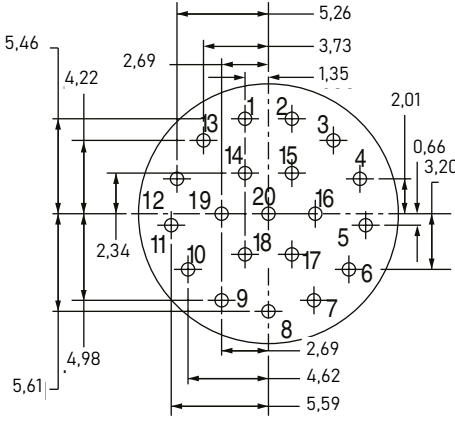
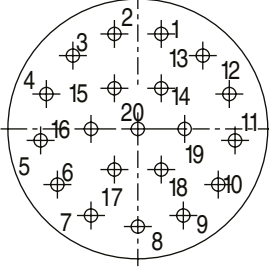
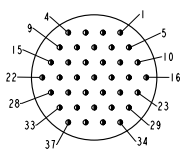
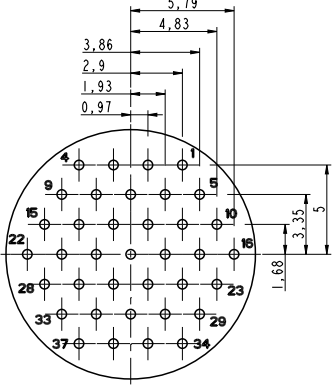
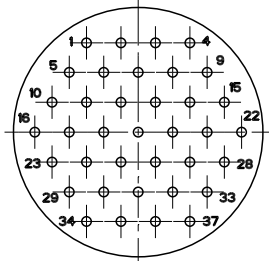
Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>10-5, 12-5 (5) #16 Contacts</p>		
 <p>12-200*, 13-200*, 15-200* (2) #12 Contacts (6) #23 Contacts</p>		
 <p>12-201, 13-201, 15-201 (2) #12 Contacts (10) #23 Contacts</p>		
 <p>10-202*, 12-202* (2) #16 Contacts (8) #23 Contacts</p>		

All dimensions are given for information only and are in mm

STRAIGHT PCB FOOTPRINT

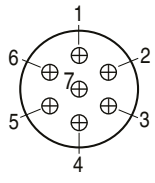
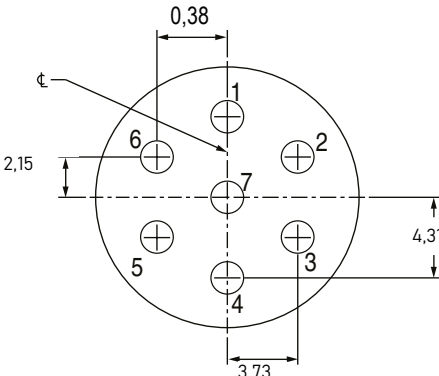
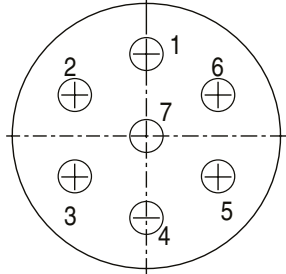
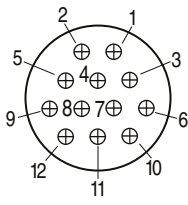
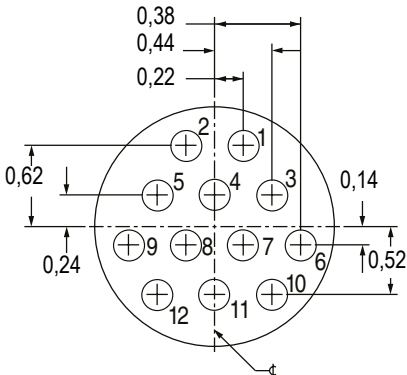
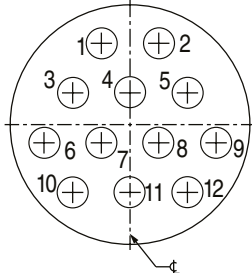
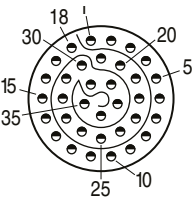
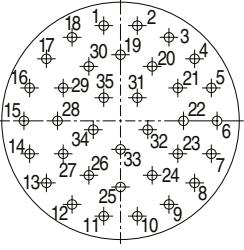
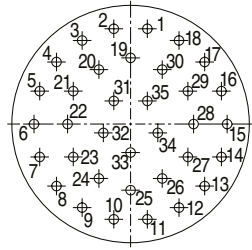
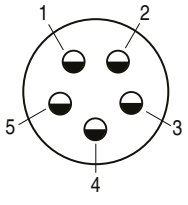
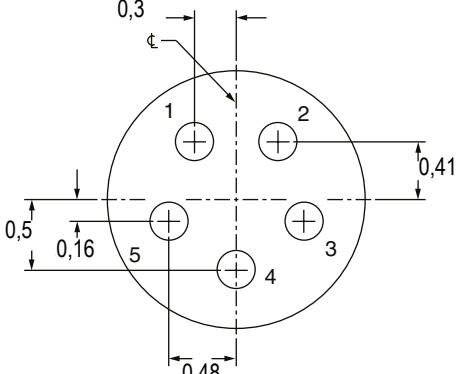
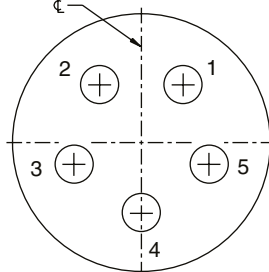
Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>12-2, 13-2, 15-2 (2) #12 Contacts</p>		
 <p>12-3*, 13-3*, 15-3* (3) #12 Contacts</p>		
 <p>13-220, 15-220 (20) #20HD Contacts 0,58 Max. Dia. Tail</p>		
 <p>13-37, 15-37 (37) #23 Contacts 0,56 Max. Dia. Tail</p>		

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STRAIGHT PCB FOOTPRINT

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

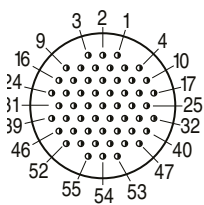
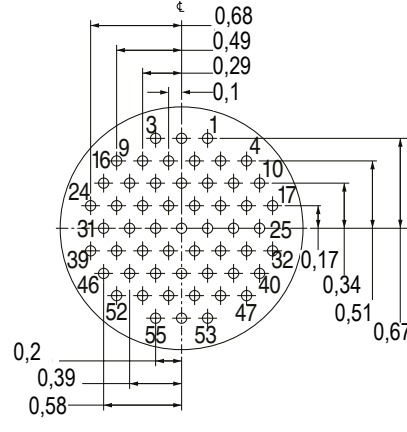
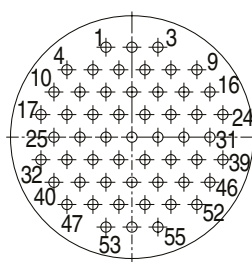
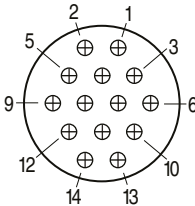
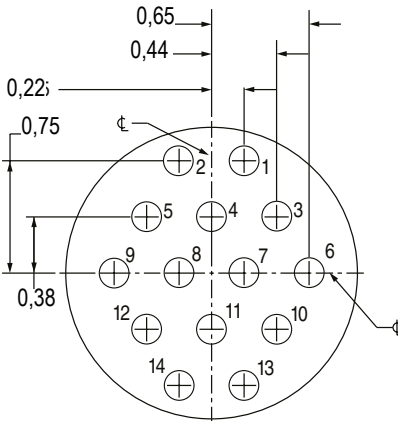
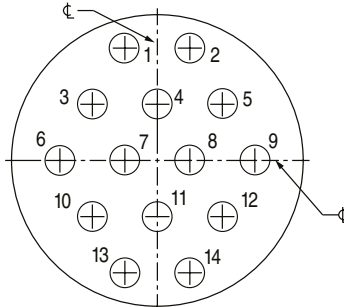
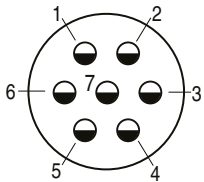
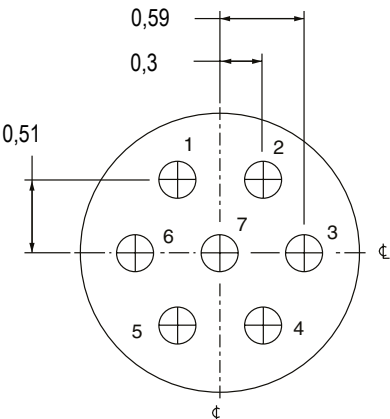
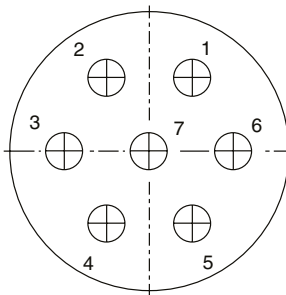
INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>13-7, 15-7 (7) #16 Contacts</p>		
 <p>14-12, 16-12, 18-12 (12) #16 Contacts</p>		
 <p>14-235, 16-235, 18-235 (35) #20HD Contacts .023 Max. Dia. Tail</p>		
 <p>14-5, 16-5, 18-5 (5) #12 Contacts</p>		

All dimensions are given for information only and are in mm

Technical Characteristics
2M805
2M801
Accessories
How to order

STRAIGHT PCB FOOTPRINT

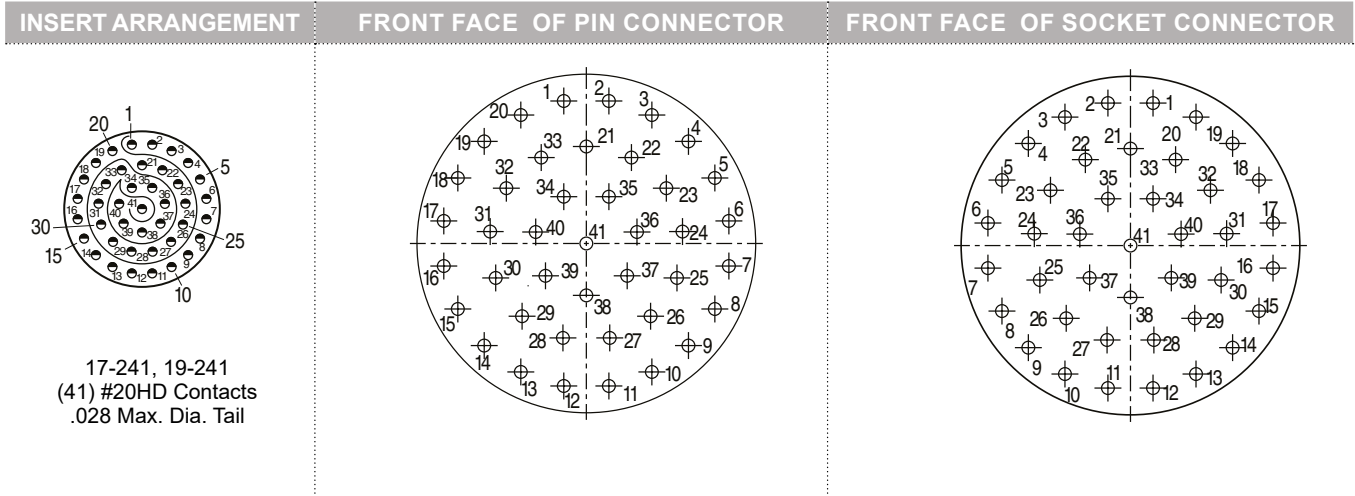
Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>14-55, 16-55, 18-55 (55) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>15-14, 17-14, 19-14 (14) #16 Contacts</p>		
 <p>15-7, 17-7, 19-7 (7) #12 Contacts</p>		

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STRAIGHT PCB FOOTPRINT

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



17-241, 19-241
(41) #20HD Contacts
.028 Max. Dia. Tail

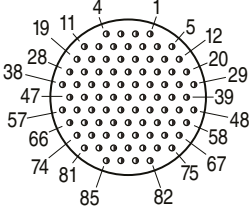
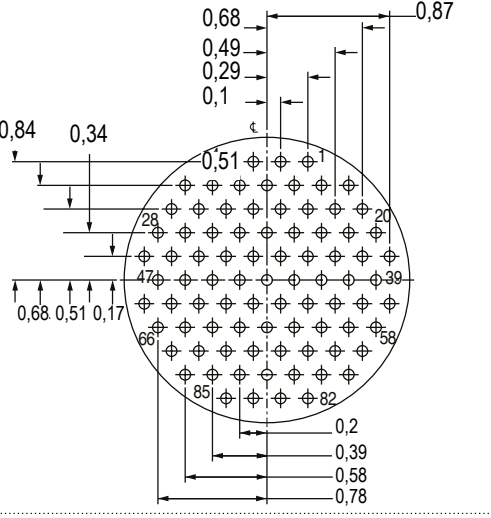
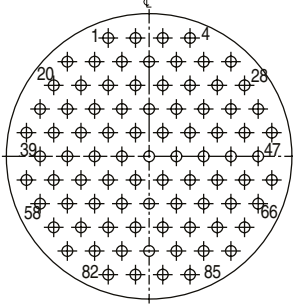
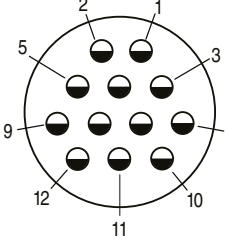
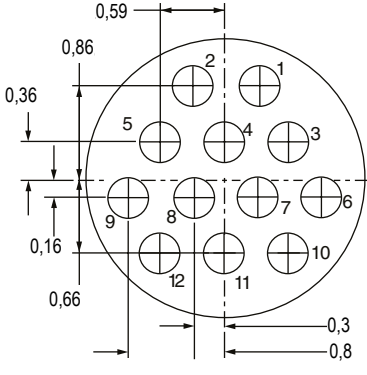
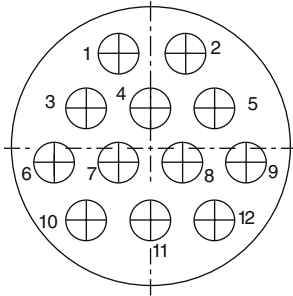
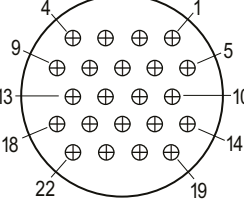
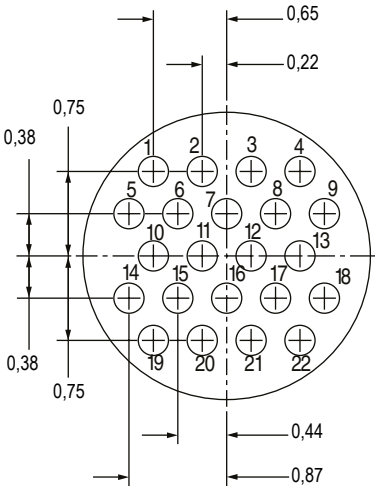
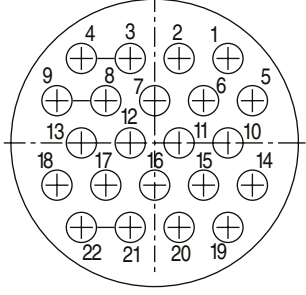
17-241, 19-241														
Pin. No.	X		Y		Pin. No.	X		Y		Pin. No.	X		Y	
	in.	mm.	in.	mm.		in.	mm.	in.	mm.		in.	mm.	in.	mm.
1	-.053	-1.35	.335	8.51	15	-.302	-7.67	-.154	-3.91	29	-.151	-3.84	-.171	-4.34
2	.053	1.35	.335	8.51	16	-.335	-8.51	-.053	-1.35	30	-.213	-5.41	-.081	-2.06
3	.154	3.91	.302	7.67	17	-.335	-8.51	.053	1.35	31	-.226	-5.74	.028	0.71
4	.240	6.10	.240	6.10	18	-.302	-7.67	.154	3.91	32	-.188	-4.78	.130	3.30
5	.302	7.67	.154	3.91	19	-.240	-6.10	.240	6.10	33	-.106	-2.69	.202	5.13
6	.335	8.51	.053	1.35	20	-.124	-3.91	.302	7.67	34	-.053	-1.35	.110	2.79
7	.335	8.51	-.053	-1.35	21	.000	0.00	.228	5.79	35	.053	1.35	.110	2.79
8	.302	7.67	-.154	-3.91	22	.106	2.69	.202	5.13	36	.119	3.02	.027	0.69
9	.240	6.10	-.240	-6.10	23	.188	4.78	.130	3.30	37	.096	2.44	-.076	-1.93
10	.154	3.91	-.302	-7.67	24	.226	5.74	.028	0.71	38	.000	0.00	-.122	-3.10
11	+ .053	+1.35	-.335	-8.51	25	.213	5.41	-.081	-2.06	39	-.096	-2.44	-.076	-1.93
12	-.053	-1.35	-.335	-6.51	27	.151	3.84	-.171	-4.34	40	-.119	-3.02	.027	0.69
13	-1.154	-3.91	-.302	-7.67	28	.055	1.40	-.222	-5.64	41	.000	0.00	.000	0.00
14	-.240	-6.10	-.240	-6.10	29	-.055	-1.40	-.222	-5.64					

All dimensions are given for information only and are in mm

Technical Characteristics
2M805
2M801
Accessories
How to order

STRAIGHT PCB FOOTPRINT

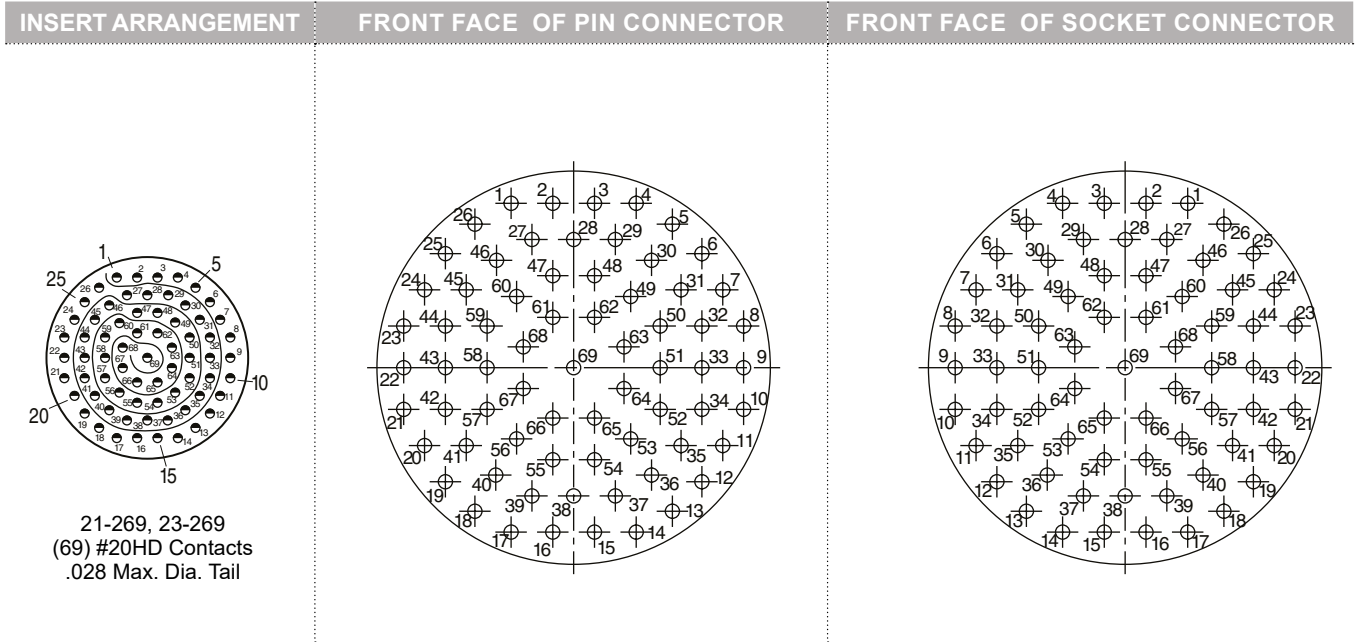
Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

INSERT ARRANGEMENT	FRONT FACE OF PIN CONNECTOR	FRONT FACE OF SOCKET CONNECTOR
 <p>17-85, 19-85 (85) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>21-12, 23-12 (12) #12 Contacts</p>		
 <p>21-22*, 23-22* (22) #16 Contacts</p>		

All dimensions are given for information only and are in mm

STRAIGHT PCB FOOTPRINT

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



21-269, 23-269
(69) #20HD Contacts
.028 Max. Dia. Tail

17-241, 19-241														
Pin No.	X		Y		Pin No.	X		Y		Pin No.	X		Y	
	in.	mm.	in.	mm.		in.	mm.	in.	mm.		in.	mm.	in.	mm.
1	-.159	-4.04	.418	10.62	24	-.379	-9.63	.198	5.03	47	-.053	-1.35	.234	5.94
2	-.053	-1.35	.418	10.62	25	-.326	-8.28	.290	7.37	48	.053	1.35	.234	5.94
3	.053	1.35	.418	10.62	26	-.251	-6.38	.365	9.27	49	.145	3.68	.181	4.60
4	.159	4.04	.418	10.62	27	-.106	-2.69	.326	8.28	50	.220	5.59	.106	2.69
5	.251	6.38	.365	9.27	28	.000	0.00	.326	8.28	51	.220	5.59	.000	0.00
6	.326	8.28	.290	7.37	29	.106	-2.69	.326	8.28	52	.220	5.59	-.106	-2.69
7	.379	9.63	.198	5.03	30	.198	5.03	.273	6.93	53	.145	3.68	-.181	-4.60
8	.432	10.97	.106	2.69	31	.273	6.93	.198	5.03	54	.053	1.35	-.234	-5.94
9	.432	10.97	.000	0.00	32	.326	8.28	.106	2.69	55	-.053	-1.35	-.234	-5.94
10	.432	10.97	-.106	-2.69	33	.326	8.28	.000	0.00	56	-.145	-3.68	-.181	-4.60
11	.379	9.63	-.198	-5.03	34	.326	8.28	-.106	-2.69	57	-.220	-5.59	-.106	-2.69
12	.326	8.28	-.290	-7.37	35	.273	6.93	-.198	-5.03	58	-.220	-5.59	.000	0.00
13	.251	6.38	-.365	-9.27	36	.198	5.03	-.273	-6.93	59	-.220	-5.59	.106	2.69
14	.159	4.04	-.418	-10.62	37	.106	2.69	-.326	-8.28	60	-.145	-3.68	.181	4.60
15	.053	1.35	-.418	-10.62	38	.000	0.00	-.326	-8.28	61	-.053	-1.35	.128	3.25
16	-.053	-1.35	-.418	-10.62	39	-.106	-2.69	-.326	-8.28	62	.053	1.35	.128	3.25
17	-.159	-4.04	-.418	-10.62	40	-.198	-5.03	-.273	-6.93	63	.128	3.25	.053	1.35
18	-.251	-6.38	-.365	-9.27	41	-.273	-6.93	-.198	-5.03	64	.128	3.25	-.053	-1.35
19	-.326	-8.28	-.290	-7.37	42	-.326	-8.28	-.106	-2.69	65	.053	1.35	-.128	-3.25
20	-.379	-9.63	-.198	-5.03	43	-.326	-8.28	.000	0.00	66	-.053	-1.35	-.128	-3.25
21	-.432	-10.97	-.106	-2.69	44	-.326	-8.28	.106	2.69	67	-.128	-3.25	-.053	-1.35
22	.432	10.97	.000	0.00	45	-.273	-6.93	.198	5.03	68	-.128	-3.25	.053	1.35
23	-.432	-10.97	.106	2.69	46	-.198	-5.03	.273	6.93	69	.000	0.00	.000	0.00

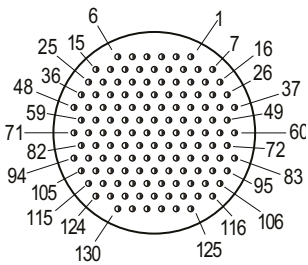
All dimensions are given for information only and are in mm

Technical Characteristics
2M805
2M801
Accessories
How to order

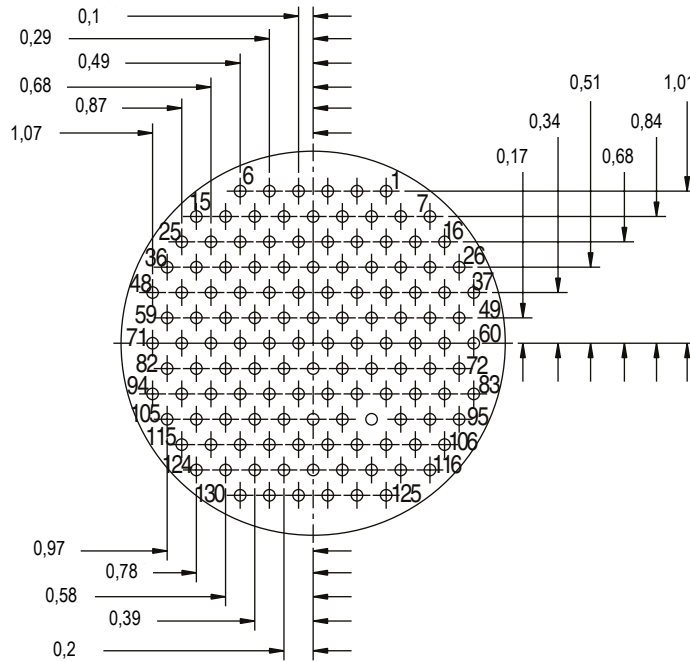
STRAIGHT PCB FOOTPRINT

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

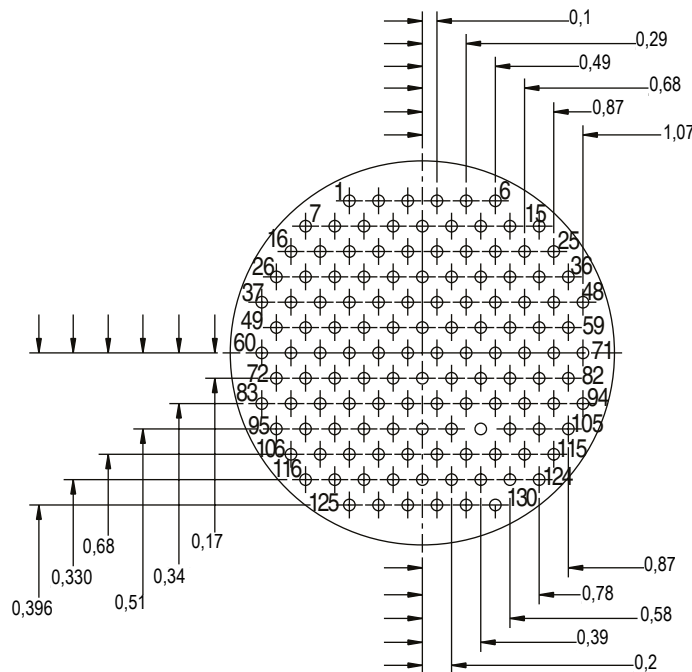
INSERT ARRANGEMENT | **FRONT FACE OF PIN CONNECTOR**



21-130, 23-130
(130) #23 Contacts
.022 Max. Dia Tail



FRONT FACE OF SOCKET CONNECTOR



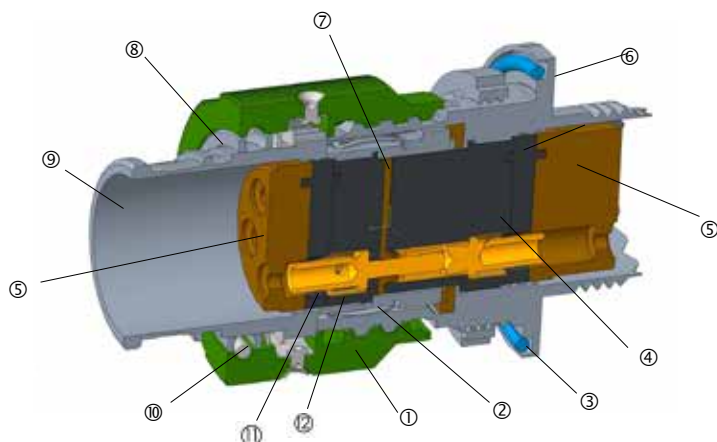
All dimensions are given for information only and are in mm



GENERAL INFORMATION

Description

- Tri-start fast coupling
- Excellent EMI shielding
- Superior vibration resistance
- Waterproof
- Nickel plated ground spring



- ① Coupling nut
- ② Grounding ring
- ③ O'Ring
- ④ Socket insert
- ⑤ Grommet
- ⑥ Receptacle shell
- ⑦ Interfacial seal
- ⑧ Plug shell
- ⑨ Integrated Backshell
- ⑩ Torlon rod
- ⑪ Pin Insert
- ⑫ Contact retention clip

MATERIALS AND FINISHES

Shells	Aluminum Alloy
Shell finish	<ul style="list-style-type: none"> - Electroless Nickel ✓ - Olive Drab Cadmium - Black Zinc Nickel ✓ - Durmalon (Ni-PTFE) ✓
Contacts	Copper Alloy, gold plated
Insulators	Polyphenylene sulfide (PPS)
Contact retention	Beryllium Copper Alloy
Grommet, Interfacial Seal, O-Ring	Fluorosilicone rubber

✓ : RoHS compliant

2M805 VS MIL-DTL-38999

Specification	2M805	D38999
Signal Count	1 to 130	1 to 187
Insulation Resistance (MΩ)	5 000	5 000
Operating Temperature	-65°C to +150°C	-65°C to +175°C / 200°C
Shock	300 G ± 15	300 G ± 15
Vibration	«43.9 G Random 60.0 G Sine»	«43.9 G Random 60.0 G Sine»
Shielding Effectiveness	«85 dB min. from 100 MHz to 1000 MHz»	«65 dB min. from 100 MHz to 1000 MHz»
Durability	500 mating cycles min	500 mating cycles min
Shell to Shell Conductivity	2.5 mV drop max	2.5 mV drop max
Contacts	Per AS39029	Per AS39029

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

HOW TO ORDER - 2M805 TRI-START

Technical Characteristics

2M805

2M801

Accessories

How to order

1.	2.	3.	4.	5.	6.	7.
Series	Connector type	Shell style	Service Class	Shell size & arrangement	Contacts	Keying
2M805	-001	-16	M	8-1	P	A

1. Series

2M805 2M805 Tri-start

5. Shell Size & Insert arrangement

See tables on page 16

2. Connector type

Series	Connector type	Shell style	Notes
-001	Crimp	Plug	Integrated backshell
-003		Receptacle	
-005	Straight PCB	Receptacle	Epoxy potting
-033		Receptacle	Epoxy potting, open face immersion

6. Contacts

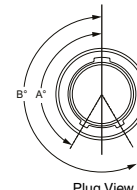
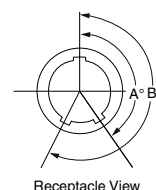
P	Pin
S	Socket
A	Without Pin contacts
B	Without Socket contacts

3. Shell style

-16	Plug	Self-Locking Ratchet
-02	Receptacle	Square Flange
-07		Jam Nut

7. Keying

A	A°	B°
	150°	210°



4. Service class

M	Electroless Nickel ✓
NF	Olive Drab Cadmium
ZNU	Black Zinc Nickel ✓
MT	Durmalon (Ni-PTFE) ✓

✓ : RoHS compliant

Download our 3D models

2M805 Configurator



Scan & discover !



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

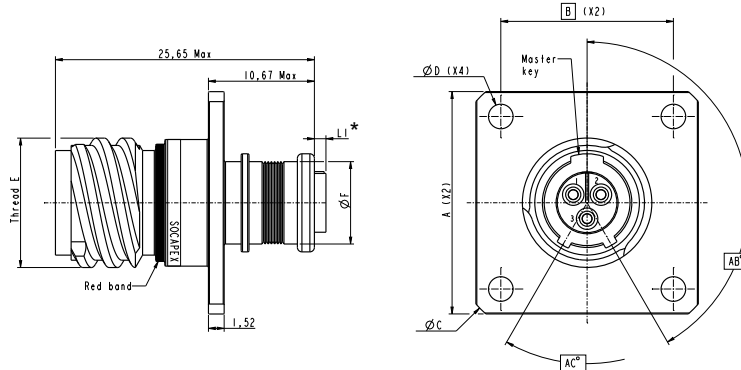
SELECTION OF 2M805 TRI-START



Overall dimensions

Square Flange Receptacle with integrated backshell - Crimp version

2M805-003-02



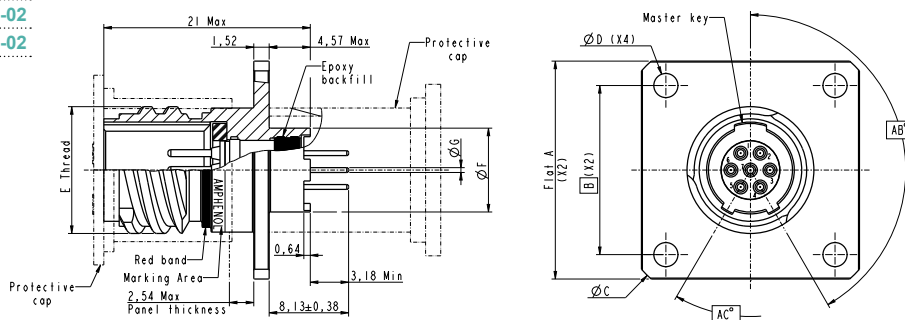
* Grommet may protrude on some insert arrangements. For detailed dimensions, please consult us.

Shell Size	A (mm)	B (mm)	Ø C (mm)	Ø D ± 0.08 (mm)	E Thread	Ø F (mm)
8	21,67	16,76	29,29	2,31	0.5000-.1P-.3L-TS-2A	8,05
9	23,27	18,36	31,32	2,31	0.5625-.1P-.3L-TS-2A	10,08
10	24,84	19,94	33,86	2,31	0.6250-.1P-.3L-TS-2A	12,01
11	26,47	21,54	35,89	2,31	0.6875-.1P-.3L-TS-2A	13,18
12	27,99	23,09	38,18	2,31	0.7500-.1P-.3L-TS-2A	14,86
15	32,79	26,87	44,53	3,18	0.9375-.1P-.3L-TS-2A	17,45
18	37,54	31,88	50,88	3,18	1.1250-.1P-.3L-TS-2A	22,45
19	39,12	33,71	53,26	3,18	1.1875-.1P-.3L-TS-2A	22,45
23	45,47	39,88	62,05	3,18	1.4375-.1P-.3L-TS-2A	28,83

Square Flange Receptacle - PCB version

2M805-005-02

2M805-017-02



Shell Size	A Flat (mm)	B (mm)	Ø C (mm)	Ø D (mm)	E Thread	Ø F (mm)	Ø G (mm)
8	21,67	16,76	29,29	2,31	0.5000-.1P-.3L-TS-2A	8,38	
9	23,27	18,36	31,32	2,31	0.5625-.1P-.3L-TS-2A	10,97	#23 0,46/0,56
10	24,84	19,94	33,86	2,31	0.6250-.1P-.3L-TS-2A	12,52	
11	26,47	21,54	35,89	2,31	0.6875-.1P-.3L-TS-2A	14	#20/20HD 0,64/0,69
12	27,99	23,09	38,18	2,31	0.7500-.1P-.3L-TS-2A	15,78	
15	32,79	26,87	44,53	3,18	0.9375-.1P-.3L-TS-2A	17,86	#16 1,52/1,63
18	37,54	31,88	50,88	3,18	1.1250-.1P-.3L-TS-2A	21,92	
19	39,12	33,71	53,26	3,18	1.1875-.1P-.3L-TS-2A	23,16	#12 2,34/2,44
23	45,47	39,88	62,05	3,18	1.4375-.1P-.3L-TS-2A	29,51	

Others shell styles available from Amphenol Aerospace (USA), please consult us for more information.

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

#23 = Coming soon with premium service

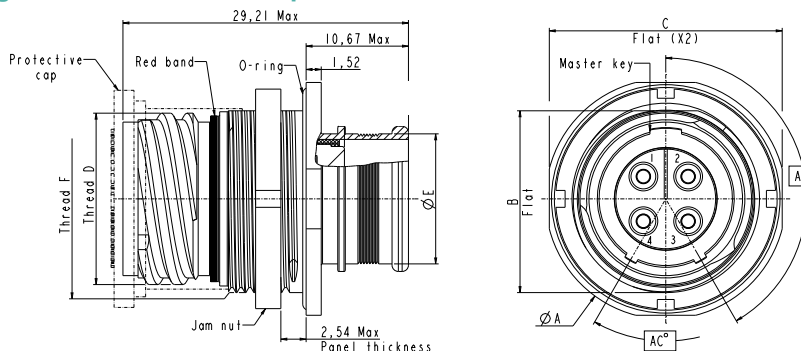
SELECTION OF 2M805 TRI-START



Overall dimensions

Jam Nut Receptacle with integrated backshell - Crimp version

2M805-003-07

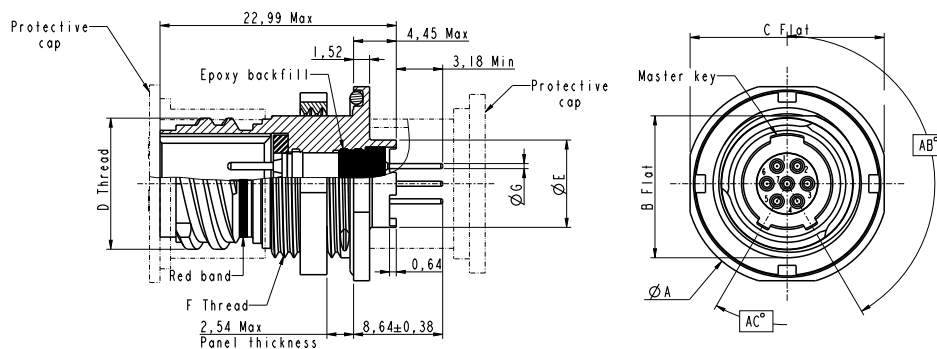


Shell Size	Ø A (mm)	B Flat (mm)	C Flat (mm)	D Thread	Ø E (mm)	F Thread
8	19,3	13,59	18,54	0.5000-1P-.3L-TS-2A	8,05	0.5625-28 UN-2A
9	22,35	16,79	21,59	0.5625-1P-.3L-TS-2A	10,08	0.6875-28 UN-2A
10	22,35	16,79	21,59	0.6250-1P-.3L-TS-2A	12,01	0.6875-28 UN-2A
11	24,26	18,31	23,5	0.6875-1P-.3L-TS-2A	13,18	0.7500-28 UN-2A
12	27,05	19,91	26,39	0.7500-1P-.3L-TS-2A	14,86	0.8125-28 UN-2A
15	30,56	24,64	29,79	0.9375-1P-.3L-TS-2A	17,45	1.0000-28 UN-2A
18	35,43	29,21	34,52	1.1250-1P-.3L-TS-2A	22,45	1.1875-28 UN-2A
19	36,83	31,01	36,07	1.1875-1P-.3L-TS-2A	22,45	1.2500-28 UN-2A
23	43,31	37,34	42,62	1.4375-1P-.3L-TS-2A	28,83	1.5000-28 UN-2A

Jam Nut Receptacle - PCB version

2M805-005-07

2M805-017-07



Shell Size	Ø A (mm)	B Flat (mm)	C Flat (mm)	D Thread	Ø E (mm)	F Thread	Ø G (mm)
8	19,3	13,59	18,54	0.5000-1P-.3L-TS-2A	0.5625-28 UN-2A	8,38	
9	22,35	16,79	21,59	0.5625-1P-.3L-TS-2A	0.6875-28 UN-2A	10,97	#23 0,46/0,56
10	22,35	16,79	21,59	0.6250-1P-.3L-TS-2A	0.6875-28 UN-2A	12,52	
11	24,26	18,31	23,5	0.6875-1P-.3L-TS-2A	0.7500-28 UN-2A	14	#20/20HD 0,64/0,69
12	26,92	19,91	26,29	0.7500-1P-.3L-TS-2A	0.8125-28 UN-2A	15,78	
15	30,56	24,64	29,79	0.9375-1P-.3L-TS-2A	1.0000-28 UN-2A	17,86	#16 1,52/1,63
18	35,43	29,21	34,52	1.1250-1P-.3L-TS-2A	1.1875-28 UN-2A	21,92	
19	36,83	31,01	36,07	1.1875-1P-.3L-TS-2A	1.2500-28 UN-2A	23,16	#12 2,34/2,44
23	43,31	37,34	42,62	1.4375-1P-.3L-TS-2A	1.5000-28 UN-2A	29,72	

Others shell styles available from Amphenol Aerospace (USA), please consult us for more information.

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

= Coming soon with premium service

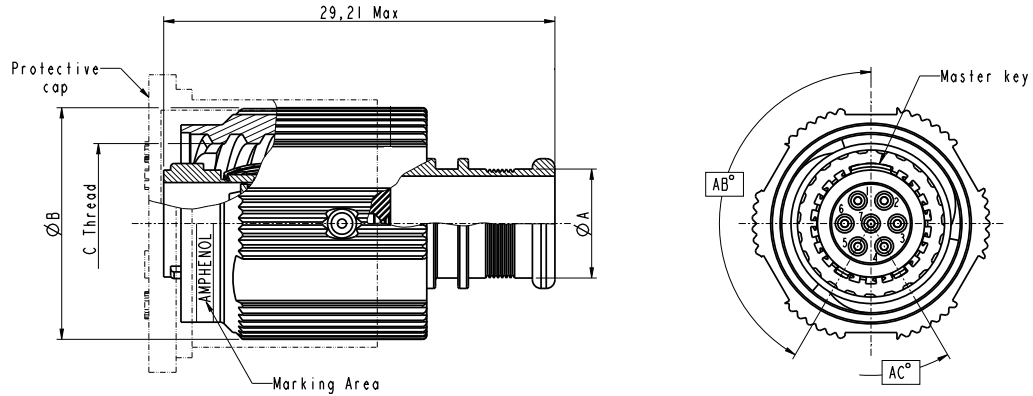
SELECTION OF 2M805 TRI-START



Overall dimensions

Straight plug with integrated backshell

2M805-001-16



Shell Size	Ø A (mm)	Ø B (mm)	C Thread
8	8,05	17,55	0.5000-.1P-.3L-TS-2B
9	10,08	19,99	0.5625-.1P-.3L-TS-2B
10	12,01	20,98	0.6250-.1P-.3L-TS-2B
11	13,18	23,5	0.6875-.1P-.3L-TS-2B
12	14,86	24,94	0.7500-.1P-.3L-TS-2B
15	17,45	28,07	0.9375-.1P-.3L-TS-2B
18	22,45	32,39	1.1250-.1P-.3L-TS-2B
19	22,45	33,27	1.1875-.1P-.3L-TS-2B
23	28,83	39,67	1.4375-.1P-.3L-TS-2B

Others shell styles available from Amphenol Aerospace (USA), please consult us for more information.

 = Coming soon with premium service

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

SELECTION OF 2M805 TRI-START

Panel drilling

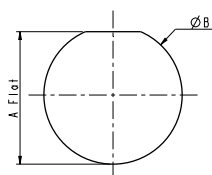
Jam Nut Receptacle Crimp version:

2M805-003-07

Jam Nut Receptacle PCB version:

2M805-005-07

2M805-017-07



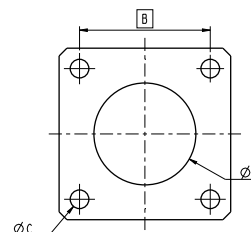
Square Flange Receptacle Crimp version:

2M805-003-02

Square Flange Receptacle PCB version:

2M805-005-02

2M805-017-02



Shell Size	Panel Cutout	
	Ø A ± 0,05 (mm)	Ø B ± 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
18	29,34	30,43
19	31,27	32,00
23	37,59	38,35

Shell Size	Panel Cutout		
	Ø A (mm)	B (mm)	Ø C ± 0,08 (mm)
8	13,07	16,76	2,31
9	14,66	18,36	2,31
10	16,25	19,94	2,31
11	17,83	21,54	2,31
12	19,42	23,09	2,31
15	24,18	26,87	3,18
18	28,96	31,88	3,18
19	30,56	33,71	3,18
23	33,73	39,88	3,18

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

HOW TO ORDER - 2M805 PROTECTIVE CAPS

1.	2.	3.	4.	5.	6.	7.
Series	Cap type	Service class	Attachement type	Shell size	Attachement code	Attachement length
2M667	-261	M	G	8	01	-5

1. Series

2M667	2M805 Protective caps
-------	-----------------------

2. Cap type

-261	For plug
-262	For receptacle

3. Service class

M	Electroless Nickel ✓
NF	Olive Drab Cadmium
ZNU	Black Zinc Nickel ✓
MT	Durmalon (Ni-PTFE) ✓

✓ : RoHS compliant

4. Attachement type



G	Nylon Rope - Recommended
H	Stainless Steel Wire Rope, Teflon Jacket

5. Shell Size

8	9	10	11	12	15	18	19	23
---	---	----	----	----	----	----	----	----

Same as connector size

6. Attachement code

	Ring		I.D (mm)	For shell size
01		Small	3,20	All
17			16,13	8
18			17,65	9,10
19			22,48	11,12
20		Large	27,17	15
22			30,73	18
23			32,39	19
25			38,86	23

7. Attachement length

-5	127 mm (5 inch) - Recommended
----	--------------------------------------

Inch length - Other lengths available upon request

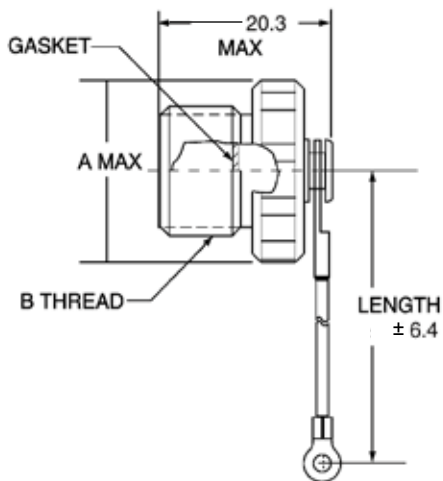
All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch

SELECTION OF 2M805 TRI-START

Overall dimensions - Protective caps

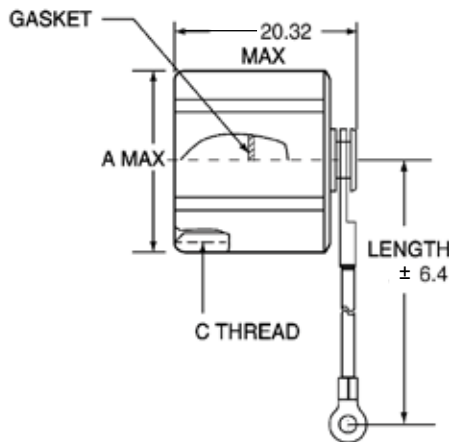
Protective caps for plug:

2M667-261



Protective caps for receptacle:

2M667-262



Shell Size	A Max. (mm)	B Thread	C Thread
8	16,66	.5000-.1P-.3L-TS-2A	.5000-.1P-.3L-TS-2B
9	18,24	.5625-.1P-.3L-TS-2A	.5625-.1P-.3L-TS-2B
10	19,84	.6250-.1P-.3L-TS-2A	.6250-.1P-.3L-TS-2B
11	21,44	.6875-.1P-.3L-TS-2A	.6875-.1P-.3L-TS-2B
12	23,01	.7500-.1P-.3L-TS-2A	.7500-.1P-.3L-TS-2B
15	27,79	.9375-.1P-.3L-TS-2A	.9375-.1P-.3L-TS-2B
18	32,54	1.1250-.1P-.3L-TS-2A	1.1250-.1P-.3L-TS-2B
19	34,11	1.1875-.1P-.3L-TS-2A	1.1875-.1P-.3L-TS-2B
21	40,72	1.4375-.1P-.3L-TS-2A	1.4375-.1P-.3L-TS-2B

MATERIALS AND FINISHES

Cover	Aluminum Alloy or Stainless Steel
Shell finish	<ul style="list-style-type: none"> - Electroless Nickel ✓ - Olive Drab Cadmium - Black Zinc Nickel ✓ - Durmalon (Ni-PTFE) ✓
Wire, hardware	Stainless steel, passivated
Gasket	Fluorosilicone rubber

✓ : RoHS compliant

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

Technical Characteristics
 2M805
 2M801
 Accessories
 How to order

CONNECTOR WEIGHT

Insert Arrangement	Cable plug	Jam nut Recept. Crimp	Jam nut Recept. PCB	Square Flange Recept. Crimp	Square Flange Recept. PCB	Insert Arrangement	Cable plug	Jam nut Recept. Crimp	Jam nut Recept. PCB	Square Flange Recept. Crimp	Square Flange Recept. PCB
8-1P	7.5	5.8	5.7	5.8	4.6	12-202P	16.6	12.9	15.3	11.2	12.1
8-1S	7.9	6.3	6.2	6.3	5.1	12-202S	18.2	14.4	16.8	12.8	13.6
8-4P	8.3	6.6	6.5	6.6	5.4	15-2P	20.7	20.2	21.8	17.1	19.5
8-4S	8.8	7.2	7.0	7.2	5.9	15-2S	22.3	21.9	23.4	18.7	21.1
8-7P	7.3	5.6	5.5	5.6	4.4	15-3P	21.7	21.2	22.8	18.0	20.5
8-7S	7.7	6.1	5.9	6.1	4.8	15-3S	23.4	23.0	24.5	19.8	22.2
9-1P	10.9	9.0	9.0	6.8	7.7	15-7P	21.9	21.5	23.0	18.3	20.7
9-1S	11.4	9.6	9.6	7.4	8.3	15-7S	24.5	24.1	25.6	20.9	23.3
9-10P	10.7	8.8	8.8	6.6	7.5	15-37P	20.1	19.7	21.2	16.5	18.9
9-10S	11.6	9.7	9.7	7.5	8.4	15-37S	23.0	22.6	24.1	19.4	21.8
10-2P	13.3	10.2	10.3	8.9	9.4	15-200P	20.4	19.9	21.5	16.7	19.1
10-2S	14.1	11.0	11.1	9.7	10.1	15-200S	22.6	22.1	23.7	18.9	21.3
10-13P	12.7	9.6	9.7	8.3	8.7	15-201P	20.7	20.2	21.8	17.1	19.5
10-13S	13.4	10.3	10.5	9.0	9.5	15-201S	23.0	22.6	24.1	19.4	21.8
10-200P	13.9	10.8	10.9	9.5	9.9	18-5P	29.9	31.6	30.1	26.1	29.0
10-200S	14.7	11.7	11.8	10.3	10.8	18-5S	32.9	34.5	33.1	29.0	32.0
11-4P	15.4	12.1	13.1	10.3	11.3	18-12P	30.7	32.3	30.9	26.8	29.8
11-4S	16.4	13.1	14.1	11.3	12.3	18-12S	34.3	36.0	34.5	30.5	33.4
11-19P	14.3	11.0	12.0	9.2	10.2	18-55P	27.3	28.9	27.5	23.4	26.4
11-19S	15.4	12.1	13.1	10.3	11.3	18-55S	30.7	32.3	30.9	26.8	29.8
11-200P	14.9	11.6	12.5	9.8	10.8	19-7P	27.9	30.0	33.1	25.1	33.0
11-200S	16.0	12.7	13.6	10.9	11.9	19-7S	31.0	33.1	36.2	28.2	36.1
11-201P	15.4	12.1	13.1	10.3	11.3	19-14P	32.9	35.0	38.1	30.0	38.0
11-201S	16.6	13.3	14.3	11.6	12.5	19-14S	32.6	34.7	37.7	29.7	37.6
12-5P	17.6	13.9	16.3	12.2	13.1	19-85P	26.6	28.7	31.8	23.8	31.7
12-5S	19.0	15.3	17.7	13.6	14.5	19-85S	31.1	33.2	36.3	28.3	36.2
12-26P	15.8	12.1	14.5	10.5	11.3	23-17P	40.2	42.9	44.4	36.7	43.9
12-26S	17.4	13.6	16.1	12.0	12.9	23-12S	45.2	48.0	49.5	41.8	49.0
12-200P	16.5	12.8	15.2	11.1	12.0	23-22P	42.7	45.4	47.0	39.3	46.4
12-200S	17.9	14.2	16.6	12.5	13.4	23-22S	49.6	52.4	53.9	46.2	53.4
12-201P	16.6	12.9	15.3	11.2	12.1	23-130P	37.8	40.6	42.1	34.4	41.6
12-201S	18.0	14.3	16.7	12.7	13.5	23-130S	44.9	47.7	49.3	41.6	48.7

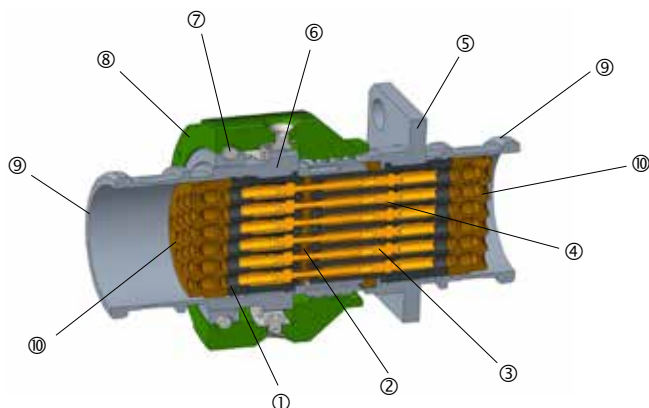
All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch



GENERAL INFORMATION

Description

- Heavy Dual-Start ACME Thread
- Most durable of the 2M series
- Up to 2,000 mating cycles
- Ratcheting Anti-Decoupling Plug



- ① Pin insert
- ② Interfacial seal
- ③ Socket insert
- ④ Contact retention clip
- ⑤ Receptacle shell
- ⑥ Plug shell
- ⑦ Torlon rod
- ⑧ Coupling nut
- ⑨ Integrated Backshell
- ⑩ Grommet

MATERIALS AND FINISHES

Shells	Aluminum Alloy
Shell finish	- Electroless Nickel ✓ - Olive Drab Cadmium - Black Zinc Nickel ✓ - Durmalon (Ni-PTFE) ✓
Contacts	Copper Alloy, gold plated
Insulators	Polyphenylene sulfide (PPS)
Contact retention	Beryllium Copper Alloy
Grommet, Interfacial Seal, O-Ring	Fluorosilicone rubber

✓ : RoHS compliant

2M801 vs MIL-DTL-38999

Specification	2M801	MIL-DTL-38999
Signal Count	1 to 130	1 to 187
Insulation Resistance (MΩ)	5 000	5 000
Operating Temperature	-65°C to +150°C	-65°C to +175°C / 200°C
Shock	300 G ± 15	300 G ± 15
Vibration	« 43.9 G Random 60.0 G Sine »	« 43.9 G Random 60.0 G Sine »
Shielding Effectiveness	« 55 dB min. from 100 MHz to 1000 MHz »	« 50 dB min. from 100 MHz to 1000 MHz »
Durability	500 mating cycles min	500 mating cycles min
Shell to Shell Conductivity	2.5 mV drop max	2.5 mV drop max
Contacts	Per AS39029	Per AS39029

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

HOW TO ORDER - 2M801 DUAL-START

Technical Characteristics

2M805

2M801

Accessories

How to order

1.	2.	3.	4.	5.	6.	7.
Series	Connector type	Shell type	Service Class	Shell size & arrangement	Contacts	Keying
2M801	-007	-26	M	6-1	P	A

1. Series

2M801 2M801 Dual-start

5. Shell Size & Insert arrangement

See tables on page xx (début du catalogue)

2. Connector type

Connector type	Shell type	Notes
-007	Crimp	Integrated backshell
-009		
-011	Straight PCB	Epoxy potting
-017		Epoxy potting, open face immersion

6. Contacts

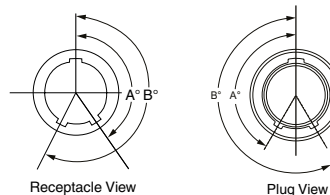
P	Pin
S	Socket
A	Without Pin contacts
B	Without Socket contacts

3. Shell type

-26	Plug	Self-Locking Ratchet
-02	Receptacle	Square Flange
-07		Jam Nut

7. Keying

A	A°	B°
	150°	210°



4. Service class

M	Electroless Nickel ✓
NF	Olive Drab Cadmium
ZNU	Black Zinc Nickel ✓
MT	Durmalon (Ni-PTFE) ✓

✓ : RoHS compliant

Download our 3D models

2M801 Configurator



Scan & discover !



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

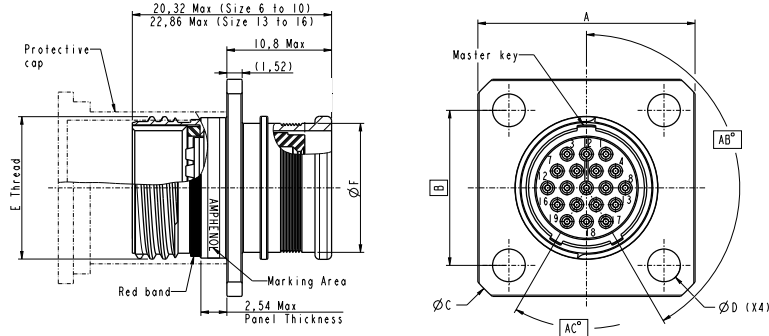


SELECTION OF 2M801 DUAL-START

Overall dimensions

Square flange receptacle with integrated backshell - Crimp version

2M801-009-02

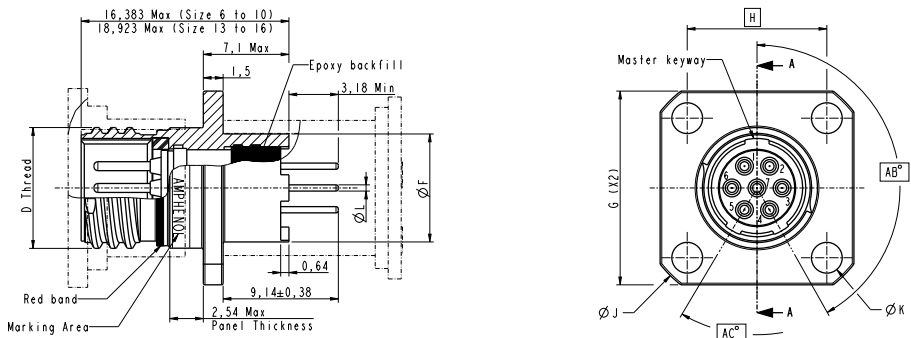


Shell Size	A (mm)	B (mm)	Ø C (mm)	Ø D (mm)	E Thread	Ø F (mm)
5	13,46	9,22	17,27	2,36	.3125-.05P-.1L-2A	6,22
6	14,99	10,74	19,05	2,36	0.3750-.05P-.1L-2A	7,37
7	16,51	12,27	21,59	2,36	0.4375-.05P-.1L-2A	9,91
8	18,08	13,84	23,88	2,36	0.5000-.05P-.1L-2A	11,3
9	21,59	15,42	28,58	3,25	0.5625-.05P-.1L-2A	12,7
10	22,61	17,02	30,23	3,25	0.6250-.05P-.1L-2A	14,22
13	26,16	20,62	34,93	3,25	0.8125-.1P-.2L-2A	16,51
16	30,96	24,92	41,28	3,25	1.0000-.1P-.2L-2A	20,45
17	32,51	26,92	43,18	3,25	1.0625-.1P-.2L-2A	21,59
21	36,32	30,61	49,28	3,25	1.3125-.1P-.2L-2A	28,83

Square Flange receptacle - PCB version

2M801-011-02

2M801-033-02



Shell Size	G (mm)	H (mm)	Ø J (mm)	Ø K (mm)	D Thread	Ø F (mm)	L Dia. Tail
5	13,46	9,22	17,27	2,36	.3125-.05P-.1L-2A	6,22	#23 0,46/0,56
6	14,99	10,74	19,05	2,36	0.3750-.05P-.1L-2A	8,38	
7	16,51	12,27	21,59	2,36	0.4375-.05P-.1L-2A	10,97	#20/20HD 0,64/0,69
8	18,08	13,84	23,88	2,36	0.5000-.05P-.1L-2A	12,52	
9	21,56	15,42	28,58	3,25	0.5625-.05P-.1L-2A	14	#16 1,52/1,63
10	22,61	17,02	30,23	3,25	0.6250-.05P-.1L-2A	15,75	
13	26,16	20,62	34,93	3,25	0.8125-.1P-.2L-2A	17,86	#12 2,34/2,44
16	30,96	24,92	41,28	3,25	1.0000-.1P-.2L-2A	21,92	
17	32,51	26,92	43,18	3,25	1.0625-.1P-.2L-2A	21,59	
21	36,32	30,61	49,28	3,25	1.3125-.1P-.2L-2A	28,83	

Others shell styles available from Amphenol Aerospace (USA), please consult us for more information.

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

 = Coming soon with high service

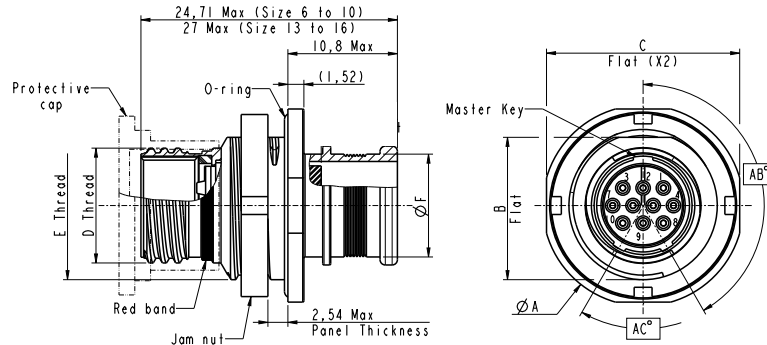


SELECTION OF 2M801 DUAL-START

Overall dimensions

Jam Nut Receptacle with integrated backshell - Crimp version

2M801-009-07

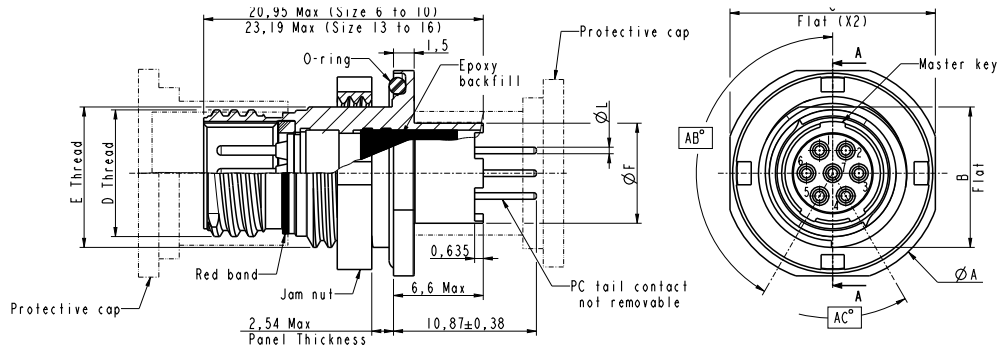


Shell Size	Ø A (mm)	B Flat (mm)	C Flat (mm)	D Thread	E Thread	Ø F (mm)
5	14,61	8,89	13,84	.3125-.05P-.1L-2A	.3750-28 UN-2A	6,22
6	16,13	10,41	15,11	0.3750-.05P-.1L-2A	.4375-28 UNEF-2A	7,37
7	19,18	13,61	18,36	0.4375-.05P-.1L-2A	.5625-32 UN-2A	9,91
8	19,18	13,61	18,36	0.5000-.05P-.1L-2A	.5625-32 UN-2A	11,3
9	21,08	15,14	20,07	0.5625-.05P-.1L-2A	.6250-28 UN-2A	12,7
10	22,61	16,71	21,72	0.6250-.05P-.1L-2A	.6875-28 UN-2A	14,22
13	27,38	21,46	26,52	0.8125-.1P-.2L-2A	.8750-28 UN-2A	16,51
16	32,11	25,96	31,24	1.0000-.1P-.2L-2A	1.0625-20 UN-2A	20,45
17	33,66	27,84	32,77	1.0625-.1P-.2L-2A	1.125-28 UN-2A	21,59
21	41,28	34,16	40,06	1.3125-.1P-.2L-2A	1.375-28 UN-2A	28,83

Jam Nut receptacle - PCB version

2M801-011-07

2M801-033-07



Shell Size	Ø A (mm)	B Flat (mm)	C Flat (mm)	D Thread	E Thread	Ø F (mm)	Ø L (mm)
5	14,61	8,89	13,84	.3125-.05P-.1L-2A	.3750-28 UN-2A	6,2	
6	16,13	10,41	15,11	0.3750-.05P-.1L-2A	.4375-28 UNEF-2A	8,38	#23 0,46/0,56
7	19,18	13,61	18,36	0.4375-.05P-.1L-2A	.5625-32 UN-2A	10,97	
8	19,18	13,61	18,36	0.5000-.05P-.1L-2A	.5625-32 UN-2A	12,52	#20/20HD 0,64/0,69
9	21,08	15,14	20,07	0.5625-.05P-.1L-2A	.6250-28 UN-2A	14	
10	22,61	16,71	21,72	0.6250-.05P-.1L-2A	.6875-28 UN-2A	15,75	
13	27,38	21,46	26,52	0.8125-.1P-.2L-2A	.8750-28 UN-2A	17,86	#16 1,52/1,63
16	32,11	25,96	31,24	1.0000-.1P-.2L-2A	1.0625-20 UN-2A	21,92	
17	33,66	27,84	32,77	1.0625-.1P-.2L-2A	1.125-28 UN-2A	23,16	#12 2,34/2,44
21	41,28	34,16	40,06	1.3125-.1P-.2L-2A	1.375-28 UN-2A	29,72	

Others shell styles available from Amphenol Aerospace (USA), please consult us for more information.

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

 = Coming soon with high service

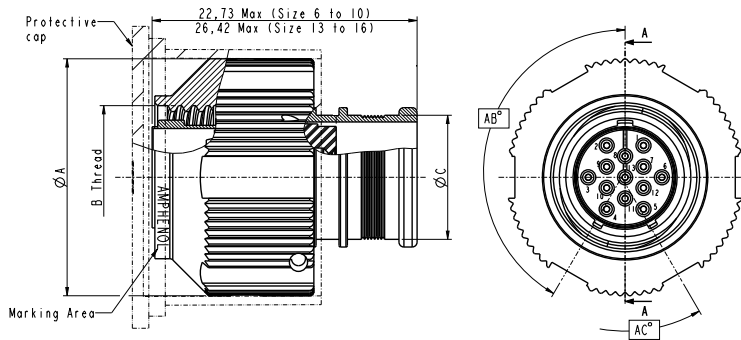
SELECTION OF 2M801 DUAL-START



Overall dimensions

Straight Plug with integrated backshell

2M801-007-26



Shell Size	Ø A (mm)	B (mm)	Ø C (mm)
5	13,84	.3125-.05P-.1L-2B	6,22
6	18,03	0.3750-.05P-.1L-2B	7,37
7	20,07	0.4375-.05P-.1L-2B	9,91
8	21,84	0.5000-.05P-.1L-2B	11,3
9	23,37	0.5625-.05P-.1L-2B	12,7
10	25,02	0.6250-.05P-.1L-2B	14,22
13	29,21	0.8125-.1P-.2L-2B	16,51
16	34,16	1.0000-.1P-.2L-2B	20,45
17	35,56	1.0625-.1P-.2L-2B	21,59
21	42,16	1.3125-.1P-.2L-2B	28,83

Others shell styles available from Amphenol Aerospace (USA), please consult us for more information.

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

SELECTION OF 2M801 DUAL-START

Panel drilling

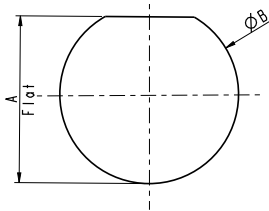
Jam Nut Receptacle Crimp version:

2M801-009-07

Jam Nut Receptacle PCB version:

2M801-011-07

2M801-033-07



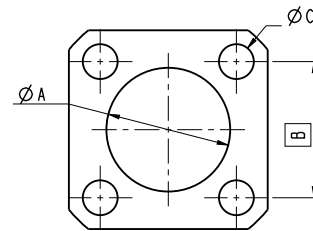
Square Flange Receptacle Crimp version:

2M801-009-02

Square Flange Receptacle PCB version:

2M801-033-02

2M801-033-02



Panel Cutout

Shell Size	A Flat $\pm 0,05$ (mm)	$\text{Ø B} \pm 0,05$ (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
16	26,11	27,31
17	27,99	28,83
21	34,39	35,18

Panel Cutout

Shell Size	Ø A (mm)	B (mm)	$\text{Ø C} \pm 0,08$ (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
16	25,78	24,92	3,25
17	27,31	26,92	3,25
21	33,66	30,61	3,25

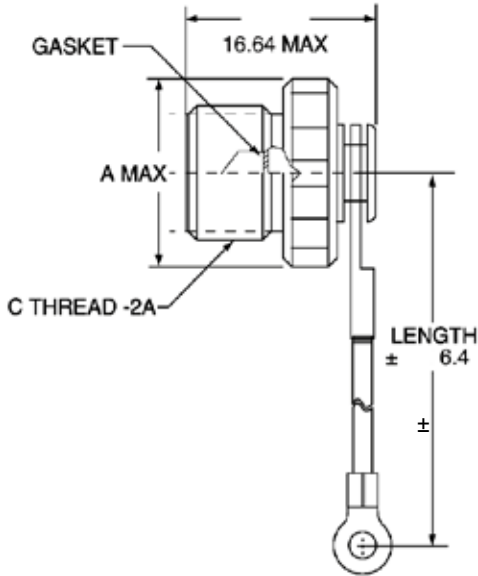
All dimensions are given for information only and are in mm, except as otherwise specified | *in mm: 1mm=0.03937 inch

SELECTION OF 2M801 DUAL-START

Overall dimensions - Protective caps

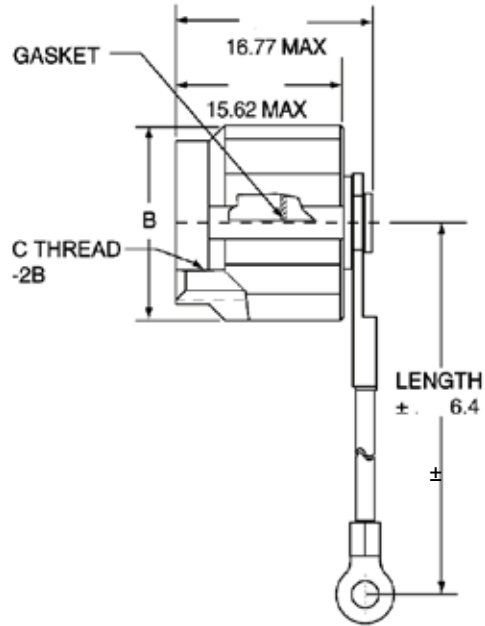
Protective caps for plug:

2M667-217



Protective caps for receptacle:

2M667-218



Shell Size	A Max. (mm)	B Max (mm)	C
6	13,28	15,57	.3750-.05P-1L
7	14,94	17,78	.4375-.05P-1L
8	16,46	19,25	.5000-.05-.1L
9	18,11	20,65	.5625-.05P-.1L
10	19,63	22,68	.6250-.05P-1L
13	24,46	27,00	.8125-.1P-.2L
16	29,16	31,93	1.0000-.1P-.2L
17	30,81	33,35	1.0625-.1P-.2L
21	37,41	39,70	1.3125-.1P-.2L

MATERIALS AND FINISHES

Cover	Aluminum alloy or stainless steel ✓
Shell finish (Aluminium only)	<ul style="list-style-type: none"> - Electroless Nickel ✓ - Olive Drab Cadmium - Black Zinc Nickel ✓ - Durmalon (Ni-PTFE) ✓
Gasket for plug	Fluorosilicone rubber
Gasket for receptacle	Silicone rubber
Wire, hardware	Stainless steel, passivated

✓ : RoHS compliant

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

HOW TO ORDER - 2M801 PROTECTIVE CAPS

Technical Characteristics

2M805

2M801

Accessories

How to order

1.	2.	3.	4.	5.	6.	7.
Series	Cap type	Service class	Attachement type	Shell size	Attachement code	Attachement length
2M667	-261	M	G	6	01	-5

1. Series

2M667 2M801 Protective caps

2. Cap type

-217	Plug
-218	Receptacle

3. Service class

M	Electroless Nickel ✓
NF	Olive Drab Cadmium
ZNU	Black Zinc Nickel ✓
MT	Durmalon (Ni-PTFE) ✓

✓ : RoHS compliant

4. Attachement type



G	Nylon Rope - Recommended
H	Stainless Steel Wire Rope, Teflon Jacket

5. Shell Size

6 6 7 8 9 10 13 16 17 19

Same as connector size

6. Attachement code

	Ring		I.D (mm)	For shell size
01		Small	3,20	All
15		Large	11,30	6
16			14,48	7,8
17			16,13	9
18			17,35	10
19			22,48	13
20			27,17	16
21			28,83	17
24			34,94	21

7. Attachement length

-5 127 mm (5 inch) - **Recommended**

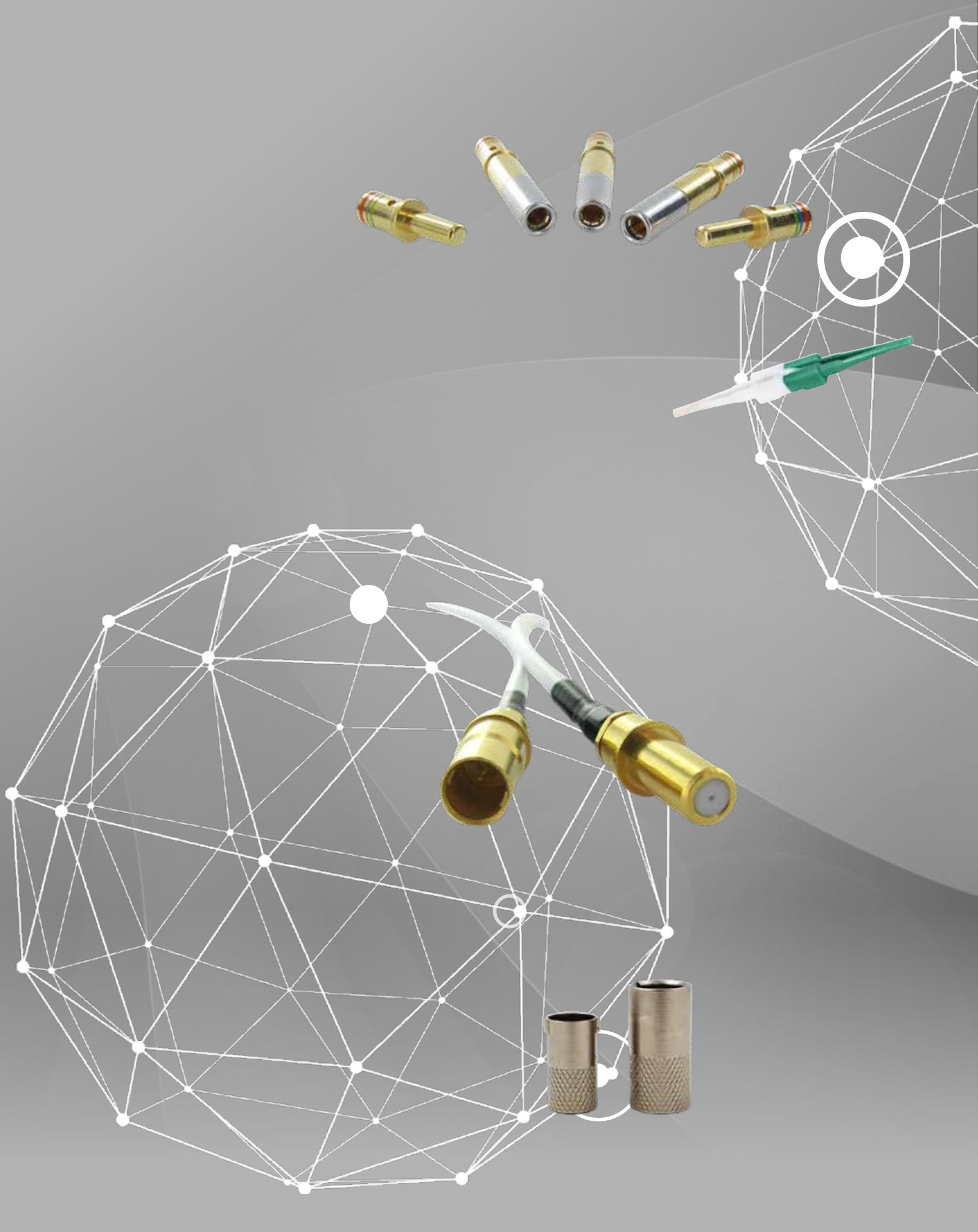
Inch length - Other lengths available upon request

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

CONNECTOR WEIGHT

Insert Arrangement	Plug	Jam nut Recept. Crimp	Jam nut Recept. PCB	Square Flange Recept. Crimp	Square Flange Recept. PCB	Insert Arrangement	Plug	Jam nut Recept. Crimp	Jam nut Recept. PCB	Square Flange Recept. Crimp	Square Flange Recept. PCB
5-3P	4.4	3.4	3.6	2.0	2.2	10-201S	16.7	13.5	14.4	15.0	11.7
5-3S	4.5	3.5	3.7	2.0	2.4	10-202P	14.9	11.7	12.6	13.2	9.9
6-1P	5.6	4.3	4.6	2.7	2.9	10-202S	16.3	13.1	14.0	14.6	11.3
6-1S	5.9	4.6	4.9	3.0	3.2	13-2P	18.9	17.2	17.2	17.2	15.1
6-4P	5.6	4.3	4.6	2.7	2.9	13-2S	20.4	18.7	18.7	18.7	16.6
6-4S	5.8	4.5	4.7	2.8	3.0	13-3P	19.8	18.1	18.1	18.1	16.0
6-7P	5.4	4.1	4.6	2.9	3.4	13-3S	21.4	19.7	19.7	19.7	17.6
6-7S	5.6	4.4	4.7	3.2	3.5	13-7P	20.0	18.3	18.3	18.3	16.2
7-1P	7.8	6.5	7.2	4.5	5.2	13-7S	22.4	20.7	20.7	20.7	18.6
7-1S	8.3	7.0	7.7	5.0	5.7	13-37P	18.4	16.7	16.7	16.7	14.6
7-10P	7.6	6.3	7.7	4.3	5.0	13-37S	19.9	17.6	17.6	17.6	15.5
7-10S	8.0	6.7	7.0	4.7	5.2	13-200P	19.0	17.3	17.3	17.3	15.2
8-2P	8.9	7.7	7.2	5.6	6.8	13-200S	21.1	19.4	19.4	19.4	17.3
8-2S	9.6	8.4	8.7	6.3	7.5	13-201P	19.1	17.4	17.4	17.4	15.3
8-13P	8.3	7.1	9.4	5.0	6.2	13-201S	21.3	19.6	19.6	19.6	17.5
8-13S	8.9	7.6	8.1	5.6	6.5	16-5P	28.5	22.6	24.4	25.4	23.0
8-200P	9.2	8.0	8.5	5.9	7.1	16-5S	31.2	25.3	28.1	28.1	25.7
8-200S	9.8	8.6	9.0	6.5	7.7	16-12P	29.2	23.3	26.1	26.1	23.7
9-4P	10.9	8.7	10.7	7.6	8.6	16-12S	32.5	26.6	29.4	29.4	27.0
9-4S	11.8	10.6	11.6	8.5	9.5	16-55P	26.5	20.6	24.3	24.3	21.9
9-19P	10.1	7.9	9.2	5.8	7.1	16-55S	29.2	23.3	26.1	26.1	23.7
9-19S	10.9	8.7	9.7	6.6	7.6	17-7P	29.8	27.0	29.4	29.4	25.2
9-200P	10.4	9.2	10.2	7.1	8.1	17-7S	33.0	30.2	32.6	32.6	28.4
9-200S	11.4	10.2	11.2	8.1	9.1	17-14P	32.6	29.8	32.2	32.2	28.0
9-201P	9.6	8.4	9.4	6.6	7.6	17-14S	32.3	29.5	31.9	31.9	27.7
9-201S	11.5	10.3	11.3	8.2	9.2	17-85P	28.1	23.2	29.0	29.0	25.3
10-5P	15.8	12.6	13.5	14.1	12.8	17-85S	31.0	26.2	30.6	30.6	26.4
10-5S	17.1	13.9	14.8	15.4	14.1	21-12P	35.0	31.4	34.4	26.4	31.4
10-26P	14.2	11.0	11.9	12.5	8.7	21-12S	39.6	36.0	39.0	31.0	36.0
10-26S	15.3	12.1	12.5	16.7	9.2	21-22P	37.3	33.7	36.7	28.7	33.7
10-200P	15.0	11.8	12.7	13.3	10.0	21-22S	43.6	40.0	43.0	35.0	40.0
10-200S	16.3	13.1	14.0	14.6	11.3	21-130P	32.9	29.3	32.3	24.3	29.3
10-201P	15.3	12.1	13.3	13.6	10.3	21-130S	39.4	35.8	38.8	30.8	35.8

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



2M SERIES CONTACTS AND TOOLS

Standard Crimp Contacts

Contact Size	Type	Amps	Wire Size AWG	Part Number	Color Band		
					1st	2nd	3rd
#23	Pin	5	#22-#28	2M809-001	-	-	-
	Pin		#26-#30	2M809-042*	Blue	-	-
	Socket		#22-#28	2M809-002	-	-	-
	Socket		#26-#30	2M809-043*	Blue	-	-
#20HD	Pin	7.5	#20-#24	2M809-204	-	-	-
	Socket		#20-#24	2M809-205	-	-	-
#16	Pin	13	#16-#20	M39029/58-364	Orange	Blue	Orange
	Socket		#16-#20	M39029/57-358	Orange	Green	Gray
#12	Pin	23	#12-#14	M39029/58-365	Orange	Blue	Green
	Socket		#12-#14	M39029/57-359	Orange	Green	White



*Special order please consult Amphenol Socapex for information.

75 Ohms Coaxial contacts NEW

Contact Size	Cable	Contact Part Number		Piggy Back Grommet
		Pin	Socket	
#12	RG179-B/U	603039	603139	N/A
	EMTEQ TFLX 125-075-01			
	PIC V73263	603360	603195	N/A
	PIC V76261			



For PC Tail version, please consult us.

Legacy Coaxial contacts NEW

Contact Size	Cable	Contact Part Number		Piggy back grommet
		Pin	Socket	
		Proprietary	Proprietary	
#12	RG-174A/U, RG-188A/U, RG-161/U, RG-187A/U, RG-316/U, RG-179B/U, Haveg 8100207, Times (HS-179) AA3248, Teledyne 11299, Raychem 7528H1424	900340 (M39029/28-211)	900354 (M39029/27-210)	N/A
	RG-180B/U, RG-195A/U, Raychem 9528A1318	900341 (M39029/28-409)	900286 (M39029/27-402)	N/A
	Raychem 5022E5111	900424	900425	N/A
	Raychem 9530A5314	900426	900427	N/A
	Raychem 9527A1318	071954	900420	N/A
	GORE GWN1159A	900428	900429	N/A

For PC Tail version, please consult us.

50 Ohms Impedance Matched Coaxial contacts NEW

Contact Size	Cable	Contact Part Number		Piggy Back Grommet
		Pin	Socket	
#12	RG316			
	T-FLEX-405	900384	600750	N/A
	RG178			
	Gore CXN 340	600907	600659	N/A

For PC Tail version, please consult us.

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2M SERIES CONTACTS AND TOOLS

Standard Crimp Contact Tools

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

*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

Grommet sealing plugs

Size	Color	Part Number	Military Part Number
#23	#22	900022	MS27488-22-2
#20	#24	900021	MS27488-20-2
#16	#26	900020	MS27488-16-2
#12	#28	900023	MS27488-12-2

Sealing plug is to be installed in the crimp barrel of non-cabled contacts, for ensuring sealing through the insert

Series 2M Torque Values

Shell Size Series 2M801	Shell Size Series 2M805	Coupling Torque (N-m)		Jam Nut Tightening (N-m)		Backshell Tightening (N-m)	
		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
16	18	6,2	7,3	2,8	3,3	4,0	5,1
17	19	6,2	7,3	2,8	3,3	4,0	5,1
21	21	6,2	7,3	2,8	3,3	4,0	5,1

Spanner Tool for Tightening 2M Jam Nuts

Shell Size Series 2M801	Amphenol Part Number	Daniels Part Number	Shell Size Series 2M805	Amphenol Part Number	Daniels Part Number
6	2M600-146-03	BT-JS-146-03-A	8	2M600-154-08	BT-JS-154-08-A
7	2M600-146-05	BT-JS-146-05-A	9	2M600-154-09	BT-JS-154-09-A
8	2M600-146-05	BT-JS-146-05-A	10	2M600-154-09	BT-JS-154-09-A
9	2M600-146-06	BT-JS-146-06-A	11	2M600-154-11	BT-JS-154-11-A
10	2M600-146-07	BT-JS-146-07-A	12	2M600-154-12	BT-JS-154-12-A
13	2M600-146-10	BT-JS-146-10-A	15	2M600-154-15	BT-JS-154-15-A
16	2M600-146-13	BT-JS-146-13-A	18	2M600-154-18	BT-JS-154-18-A
17	2M600-146-14	BT-JS-146-14-A	19	2M600-154-19	BT-JS-154-19-A
21	2M600-146-17	BT-JS-146-17-A	23	2M600-154-23	BT-JS-154-23-A

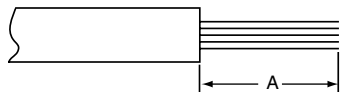
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2M SERIES ASSEMBLY INSTRUCTIONS

Wire Stripping

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
12	4.77

Table 1

Contact Size	Wire Dimension (mm)**	
	Min.	Max.
12	2.464	4.115
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 strength.

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.



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 video

Contact Crimping Instructions



Scan & discover!



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2M SERIES ASSEMBLY INSTRUCTIONS

Contact Insertion

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



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



Metal tool with contact.

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.



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

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.



6. 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 for contacts removal.


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.

Watch our video

Contact Insertion Instructions



Scan & discover !

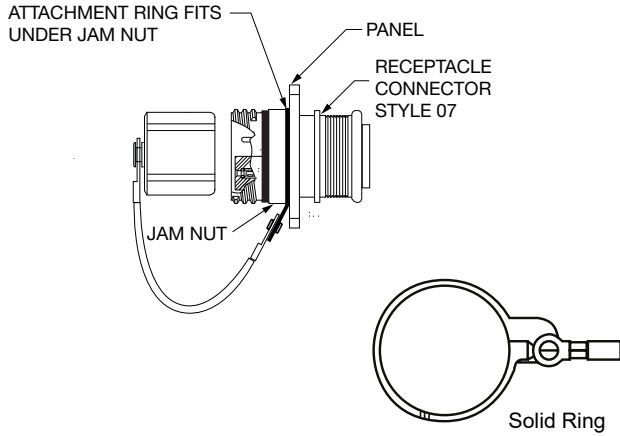


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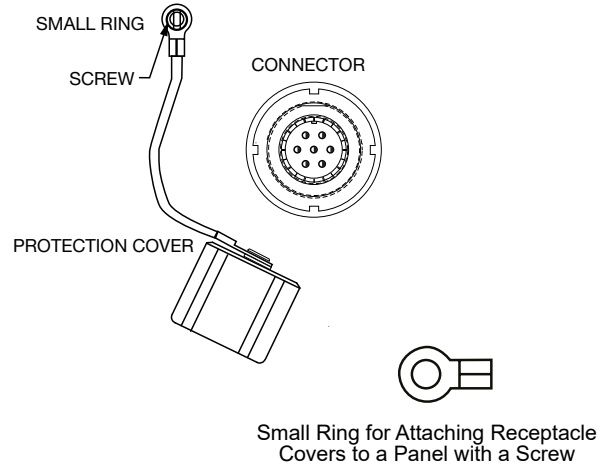
2M SERIES ASSEMBLY INSTRUCTIONS

Cap attachment

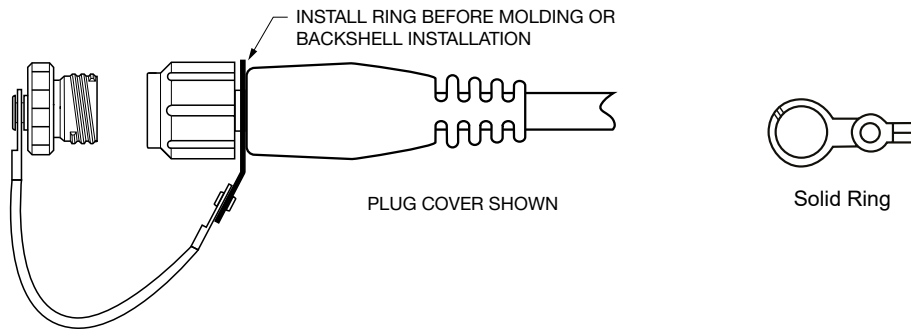
CAP ATTACHMENT TO JAM NUT RECEPTACLE



CAP ATTACHMENT TO PANEL



CAP ATTACHMENT TO CABLE ASSEMBLY



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2M SERIES ASSEMBLY INSTRUCTIONS

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 (Daniels DBS-2200)**

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 ensure a snug fit around the shield termination area (Figure 2).

3. Prepare the band in the following manner:

IMPORTANT: Due to connector/adaptor 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 where shown 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 band.

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.

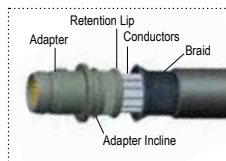


Fig. 1

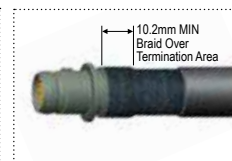


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

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2M SERIES SHRINK BOOTS

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 Size	Shell Size		Straight Shrink Boots Part Number	Right Angle Boots Part Number
	Series 2M801	Series 2M805	Pre-Coated with Hi-Temp Hot-Melt Adhesive	Pre-Coated with Hi-Temp Hot-Melt Adhesive
1	5	N/A	2M809S060-2G	2M809A060-2G
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
5	14, 15, 16, 17	18, 19	2M809S060-5G	2M809A060-5G
6	21	23	2M809S060-6G	2M809A060-5G

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 Free	NAVSEA 5617649

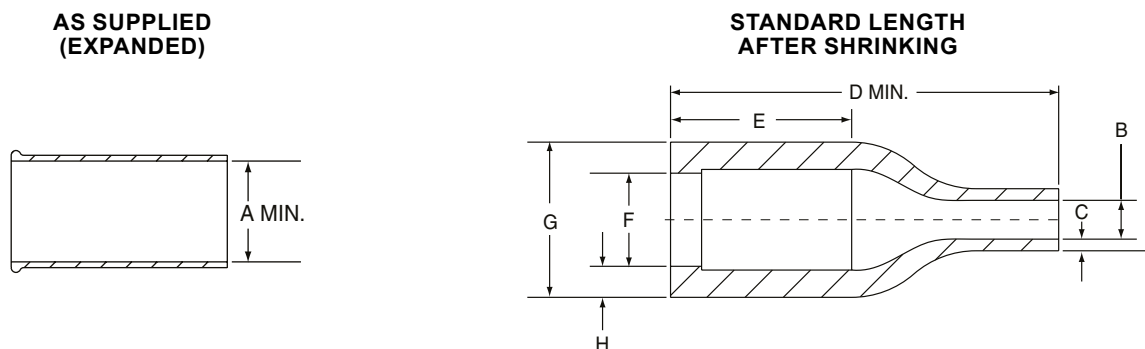
Boot Size	Shell Size		Straight Shrink Boot Part Number	Right Angle Shrink Boots Part Number
	Series 2M801	Series 2M805	Pre-Coated with Hi-Temp Hot-Melt Adhesive	Pre-Coated with Hi-Temp Hot-Melt Adhesive
1	5	N/A	2M809S060-2H	2M809A060-2H
2	6, 7	8, 9	2M809S060-2H	2M809A060-2H
3	8, 9	10, 11	2M809S060-3H	2M809A060-3H
4	10, 12, 13	12, 15	2M809S060-4H	2M809A060-4H
5	14, 15, 16, 17	18, 19	2M809S060-5H	2M809A060-5H
6	21	23	2M809S060-6H	2M809A060-6H

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2M SERIES SHRINK BOOTS

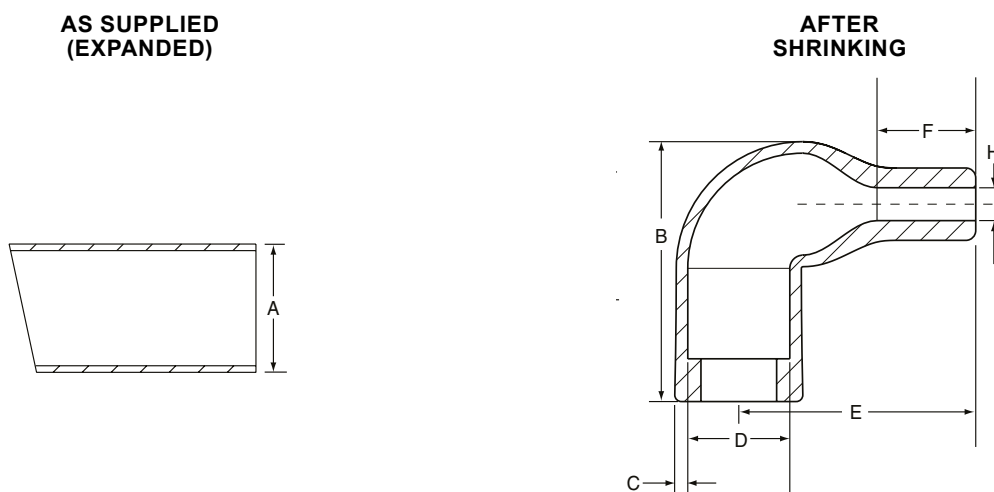
2M809S060, 2M809A060 SHRINK BOOTS

Lipped Straight Shrink Boots



Boot Size	A Min. (mm)	B Max. (mm)	C \pm 20% (mm)	D \pm 10% (mm)	E Ref. (mm)	F Max. (mm)	G Ref. (mm)	H \pm 30% (mm)
1	16,5	3,8	1,27	25,4	14,2	6,05	10,5	2,29
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
5	31,0	7,1	2,03	67,0	35,0	15,95	21,8	3,05
6	42,7	9,9	2,03	103,6	56,4	25,0	32,2	3,63

Lipped Right Angle Shrink Boots



Boot Size	A Min. (mm)	B Ref. (mm)	C \pm 30% (mm)	D Max. (mm)	E \pm 20% (mm)	F Ref. (mm)	G \pm 20% (mm)	H Max (mm)
1	16,5	20,1	1,0	7,9	18,3	7,62	1,6	2,5
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
5	30,9	30,5	1,8	17,8	35,6	8,6	1,8	7,1
6	42,6	43,2	2,0	27,9	53,3	15,7	2,0	9,7

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NOTES

Area with horizontal dotted lines for notes.

Technical Characteristics

2M805

2M801

Accessories

How to order

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NOTES

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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



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