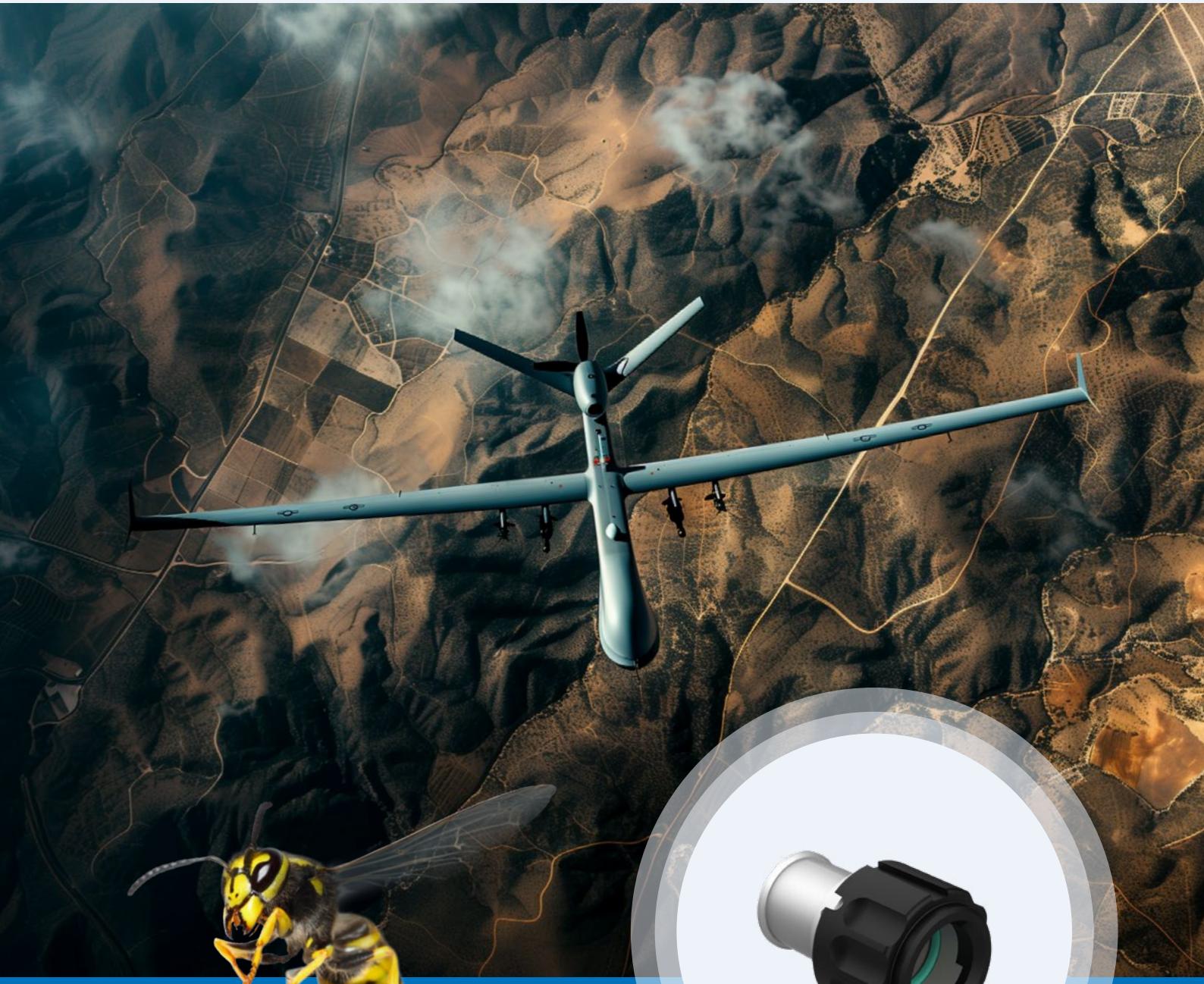
Amphenol

October 2026



WaSP

Durable, Lightweight, Low-Cost, Microminiature Circular Connector

WaSP

Designed for High-Volume Harsh Environment Applications that Prioritize Size, Weight, Power, and Cost (SWaP-C)

Based on our TERRAPIN SCE2 series, the WaSP microminiature range takes the TERRAPIN's compact, rugged, lightweight design and optimizes it even further for high-volume SWaP-C applications.

The WaSP microminiature circular connector features a simplified interface designed for ease of use, quick mating, and affordability. With a 1/4 turn polymer locking ring, mating the WaSP is quick and easy. Its lightweight aluminium shell and polymer locking ring ensures the WaSP only adds minimal weight to applications that prioritise lightweight designs, and its low-profile size ensures it will take up minimal space in your assembly.

The WaSP series is designed to operate in a range of harsh environments. It features IP67 environmental sealing, a passivation anti-corrosion layer, can operate in a temperature range of -55°C (-67°F) to + 85°C (185°F), and can withstand 96 hours of salt spray. Its environmental durability makes it optimal for a wide range of smaller platforms operating on land, in the air, or at sea.

WaSP delivers compact, low-cost Size, Weight, Power and Cost (SWaP-C) interconnect performance for autonomous and unmanned platforms such as Unmanned Aerial Vehicles (UAVs), drone swarm systems, Unmanned Ground Vehicles (UGVs), communication systems, and counter- Unmanned Aircraft System (UAS) technologies. Ideal for high-volume programmes with demanding SWaP-C requirements.

Key features

- Lightweight aluminium shell
- Lightweight 1/4 turn polymer locking ring
- Simplified geometry
- Passivation anticorrosion layer
- Sealed IP67
- 3 keying options



Performance data

Electrical	
Current Rating	23 AWG Contacts: 5A d.c. (subject to ambient temperature)
Shell to Shell Continuity	10mΩ
Insulation Resistance	1000MΩ minimum, production tested to 500MΩ*
Working Voltage AC (RMS)	400V contact dependant
Dielectric Withstanding Voltage	2mA maximum leakage
Number of ways	7

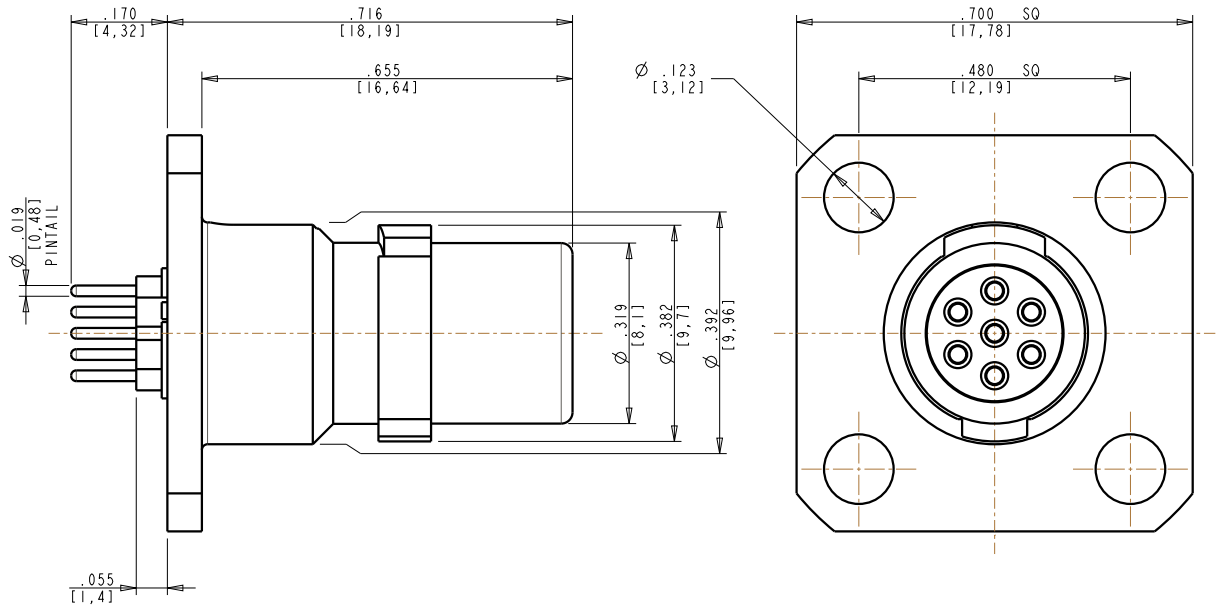
Technical	
Mating Durability	250 cycles minimum
Non-Magnetic	Yes

Environmental	
Operating Temperature Range	-55°C (-67°F) to + 85°C (185°F)
Sealing (Mated and Unmated)	IP67
Salt Spray	96 hours
Vibration	MIL-STD-810H Figure 514.8C-15, Category 9 - Helicopter Vibration 10-500 Hz)
RoHS Compliant	Yes
Suitable for RoHS compliant Soldering	Yes



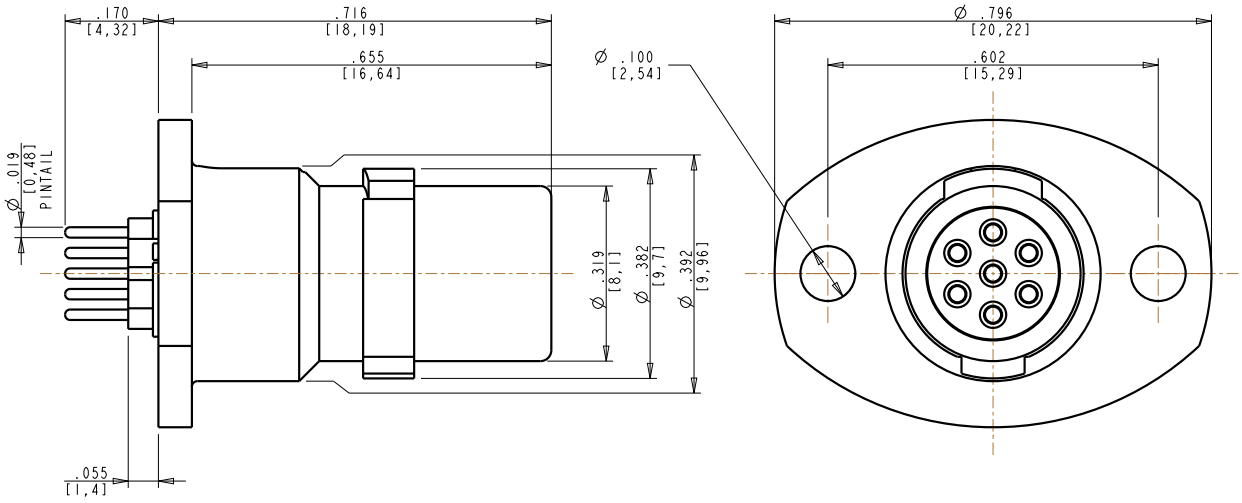
Wall mount receptacle 4-hole flange

Weight: 4.0 Grams (0.141 ounces)



Wall mount receptacle 2-hole flange

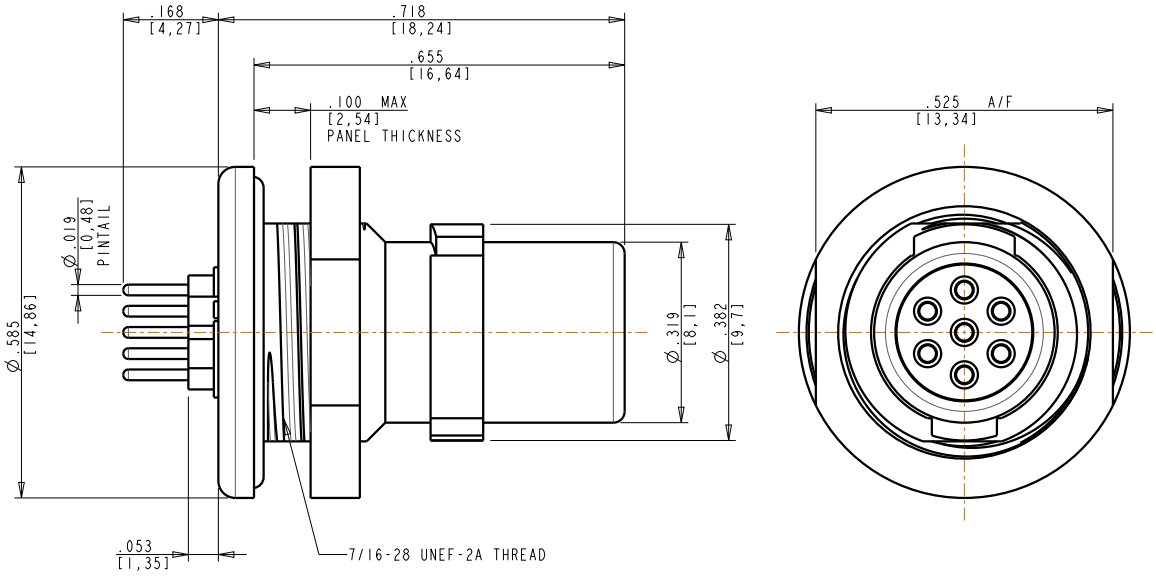
Weight: 3.7 Grams (0.131 ounces)



All dimensions are in inches [mm shown in brackets] and are for reference only. Figure enlarged scale.

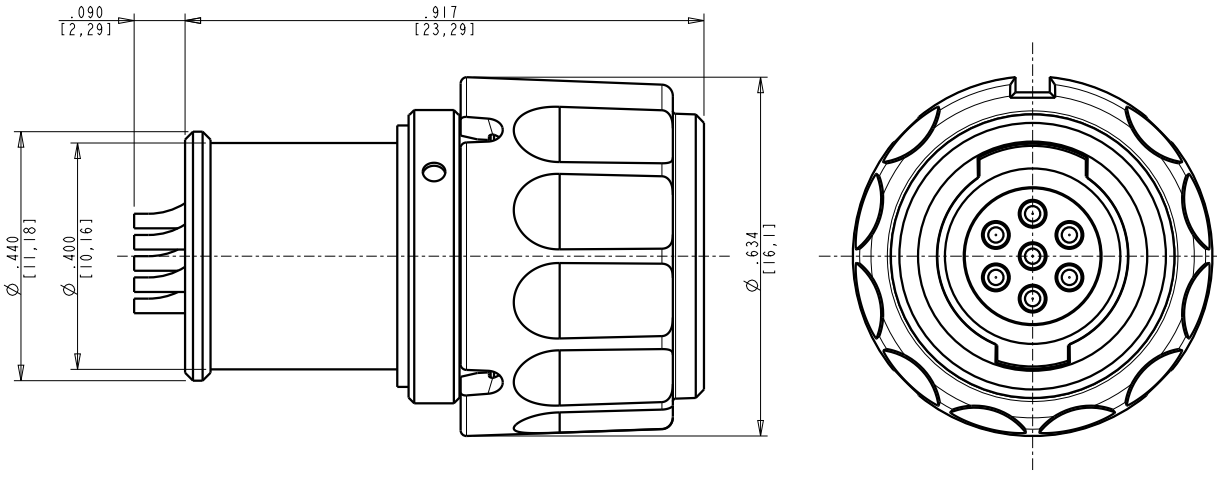
Jam nut receptacle

Weight: 4.1 Grams (0.144 ounces)



Cable mount plug

Weight: 5.4 Grams (0.191 ounces)



All dimensions are in inches [mm shown in brackets] and are for reference only. Figure enlarged scale.

Part number builder

Example: WSP-06-06-07PN

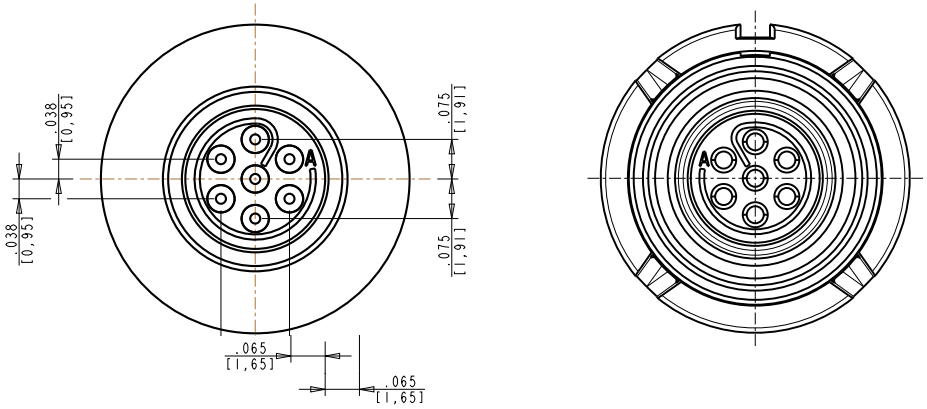
Series	Shell Style	Shell Size & Planform	Contact Style	Keyway Orientation
WSP	-XX	-XX-XX	X	X
WSP	**06:** Free (cable) **02:** 4-hole Flange **03**: 2-hole Flange **07**: Rear Mount Jam Nut	**06-07**	**P:** Pins* **S:** Sockets**	**N:** Normal **A** **B**

*Free connector supplied with pins & solder bucket termination

**Fixed connector supplied with sockets and PC tails termination

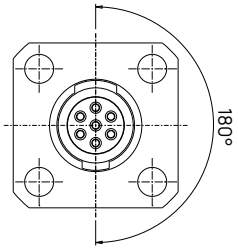
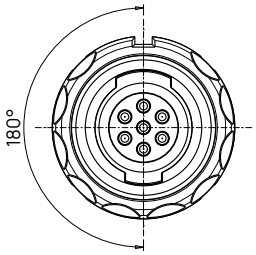
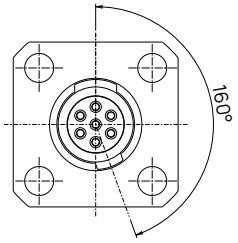
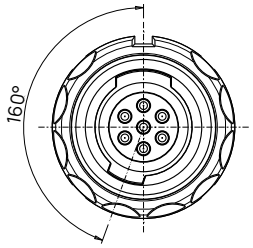
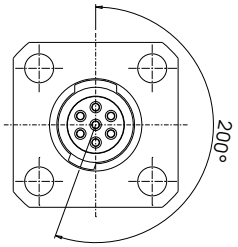
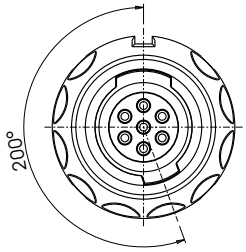


Insert layout View from rear of connector

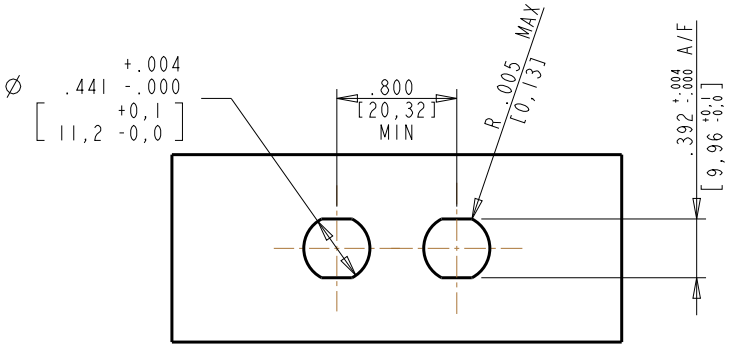


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Keyway orientations

Orientation	Receptacle	Plug
N		
A		
B		

Jam nut receptacle panel cut out



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Amphenol

An Amphenol Limited product

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