



## 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 new 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 no jam nut and a 1/4 turn polymer locking ring, mating the WaSP is quick and easy. Its lightweight aluminum shell and locking ring ensures the WaSP only adds minimal weight to applications that prioritize 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 48 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 is the ideal interconnect for high-volume, low-cost SWaP-C applications such as UAVs and drone swarm technologies, UGVs, communications systems, and more. Turn to WaSP for systems intended for production and use in high quantities that must strictly adhere to rigorous size, weight, power, and cost profiles.

### Key features

- Lightweight aluminium shell
- Lightweight 1/4 turn polymer locking ring
- No jam nut
- Simplified geometry
- Passivation anticorrosion layer
- Sealed IP67
- 3 keying options



## Performance data

Electrical	
Current Rating	25 AWG Contacts: 5A d.c. (subject to ambient temperature)
Shell to Shell Continuity	10mΩ
Contact Resistance	5mΩ initial 10mΩ maximum
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

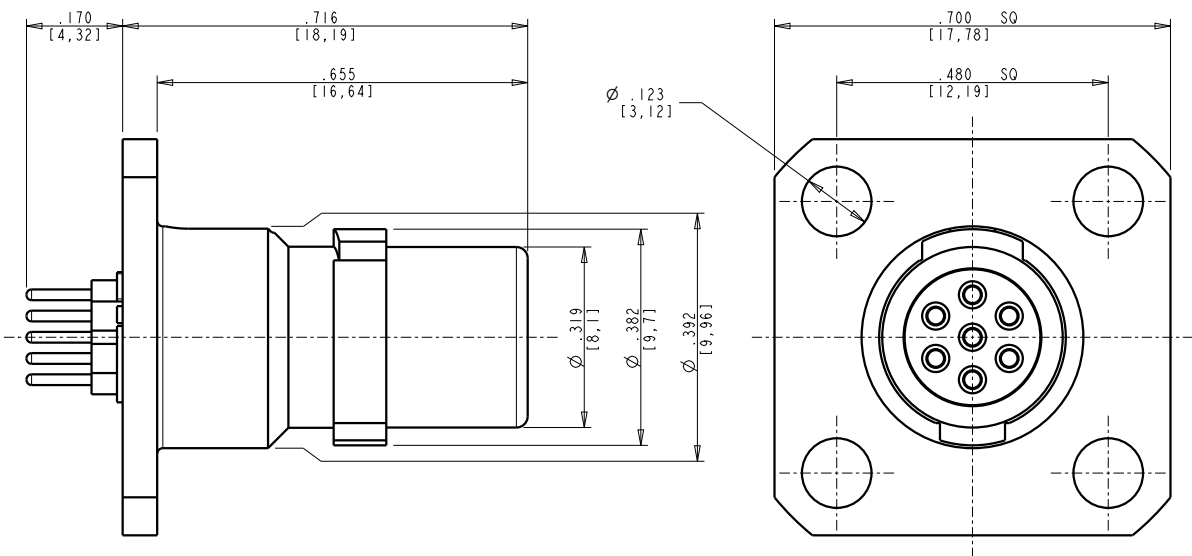
Technical	
Mating Durability	50 cycles minimum
Non-Magnetic	Yes

Environmental	
Operating Temperature Range	-55°C (-67°F) to + 85°C (185°F)
Sealing (Mated and Unmated)	IP67
Salt Spray	48 hours
RoHS Compliant	Yes
Suitable for RoHS compliant Soldering	Yes



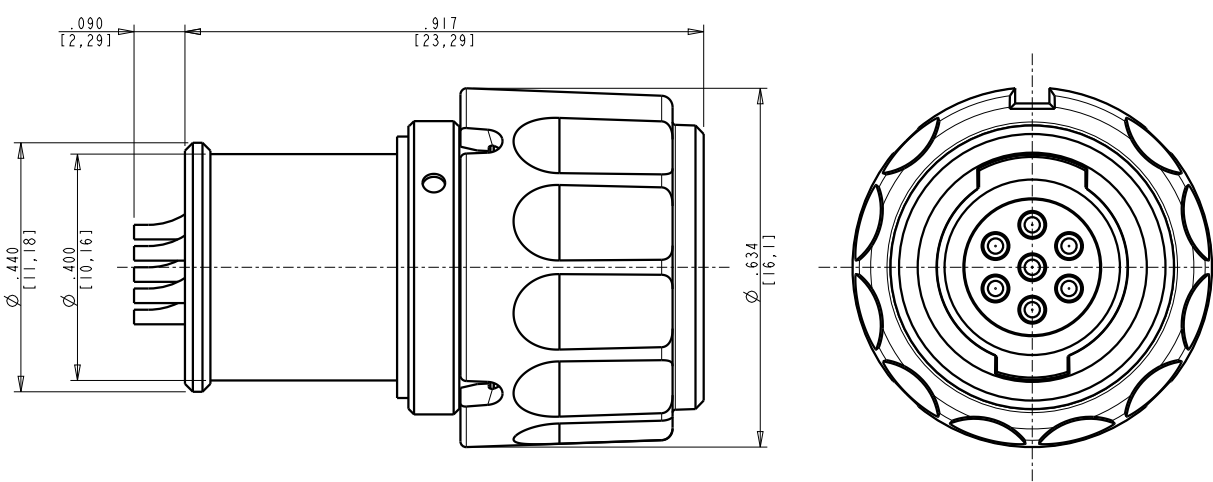
Wall mount receptacle 7 way

Weight: 4.0 Grams (0.141 ounces)



Cable mount plug 7 way

Weight: 5.4 Grams (0.191 ounces)

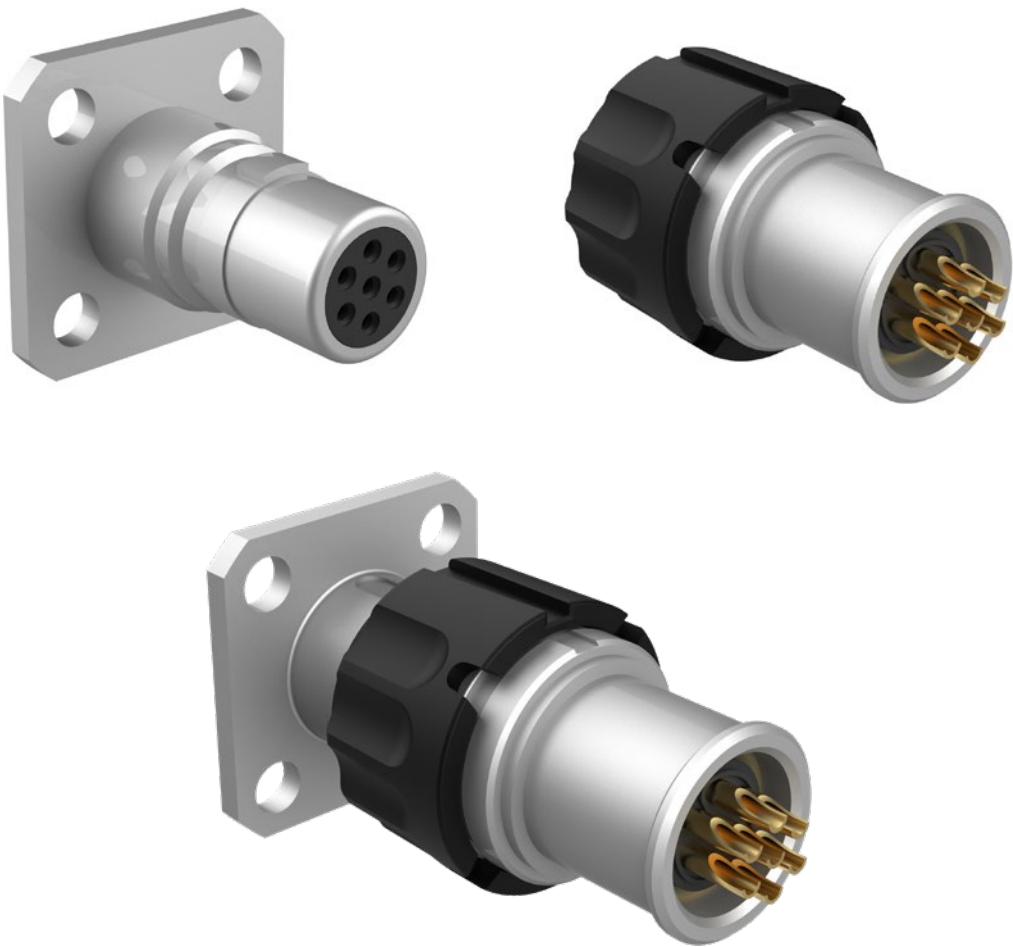


Part number builder

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: Fixed (Equipment)	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



## Notes

## Plug keyway orientation

Technical drawing of a wheel hub. The drawing shows a cross-section of the hub with a central bore and five mounting holes. A dimension line indicates a diameter of 100 mm. Another dimension line indicates an offset of 10 mm from the center of the hub to the center of the mounting holes.

A technical drawing of a circular mechanical component, likely a flange or a valve cover, shown in a top-down view. The component features a central circular area with five small circular holes arranged in a cross pattern. Surrounding this central area are several concentric rings. The outermost ring has a series of raised, rounded segments. A dimension line with arrows at both ends indicates an angle of 140° between two radial lines extending from the center to the outer edge.

# WaSP

# Amphenol

An Amphenol Limited product

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