



Introducing the Johnson waterproof interconnect family consisting of a rugged design for harsh environments. All products meet industry-leading IP68 standards. The parts are designed with internal gaskets along with an outer gasket. They are waterproof in an unmated condition and designed for underwater applications including mil-aero, transportation, oil & gas, marine and Industrial IoT. The part range consists of RF jack and plug connectors and adapters in the SMA, TNC, MCX and MMCX families. Available in stainless steel and brass.

#### **Features**

- The SMA family operates up to 18 GHz.
- The TNC family are larger and more rugged.
- Adapters include hermetically sealed connectors to 1 x 10-8 cc/sec, making them ideal for high pressure, vacuum applications and the prevention of liquid or gas leakage.
- Ingress Protection ratings are used to specify the environmental protection of enclosures and casings around electronic products.
- IP86 devices backed by an international standard rating of IP68 are deemed fit enough to withstand dust, dirt and sand, and are resistant to submersion up to a maximum depth of 1.5m underwater for up to thirty minutes.

- · Satellite communication equipment and base stations
- · Remote monitoring communication
- Cable broadcast equipment
- GPS antennas







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1 <sup>st</sup> Digit	Definition
0	No protection against contact and ingress of objects
1	Protect against any large surface of the body, such as the back of hand. Protect against solid objects greater than 50mm in size.
2	Protect against access to hazardous parts by a finger or similar object. Protected against solid objects greater than 12.5mm in size.
3	Protected against access to hazardous parts with a tool or thick wire. Protected against solid objects greater than 2.5mm in size.
4	Protected against access to hazardous parts with a wire screw, etc. Protected against solid objects greater than 1mm in size.
5	Protected against access to hazardous parts. Dust protected.
6	Protected against access to hazardous parts. Dust-tight.



2 <sup>nd</sup> Digit	Definition
0	No protection
1	Protected against water drops.
2	Protected against water drops at a 15° angle.
3	Protected against water spray at 60° angle.
4	Protected against water splashing from any angle.
5	Protected against water jets from any angle.
6	Protected against powerful water jets and heavy seas.
7	Protected against the effects of temporary submerison in water. Test requires 30 minutes at 1 meter depth.
8	Protected against the effects of temporary submerison. Customer specetification applies and specific testing may be required.
9K	Protects against high pressures associated with steam cleaning.



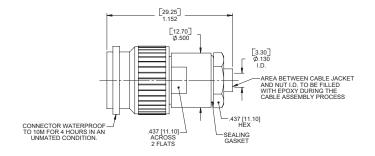
# Connectors

# **TNC Straight Crimp Plug, RG316**

Part Number	Material	Impedance	Maximum Frequency	VSWR
137-0203-001	Stainless Steel Passivated	50 Ohms	DC - 26.5 GHz	1.20 Max





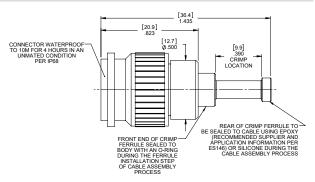


# **TNC Straight Clamp Plug, RG316**

Part Number	Material	Impedance	Maximum Frequency	VSWR
137-0403-011	Stainless Steel Passivated	50 Ohms	DC - 26.5 GHz	1.20 Max





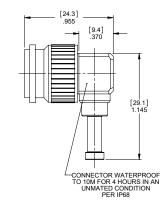


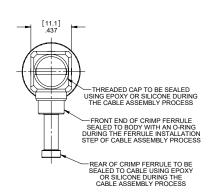
# TNC R/A Crimp Plug, RG316, Low Profile

Part Number	Material	Impedance	Maximum Frequency	VSWR
137-0403-101	Stainless Steel Passivated	50 Ohms	DC - 26.5 GHz	1.20 Max













# TNC Bulkhead Mount Jack, 0.085" Cable, Front Mount

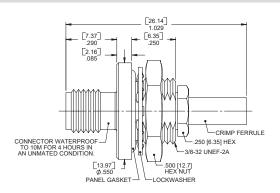
Part Number	Material	Impedance	Maximum Frequency	VSWR
137-0599-411	Stainless Steel Passivated	50 Ohms	DC - 26.5 GHz	1.20 Max
			[10.29] 405 ACROSS 1 FLAT  [2.34] 0.092 I.D.  7/16-28 UNEF-24 HEXT LOCKW	

# SMA Crimp Bulkhead Jack, RG174/RG316/LMR100

Part Number	Material	Impedance	Maximum Frequency	VSWR
142-0303-801	Stainless Steel Passivated	50 Ohms	DC - 26.5 GHz	1.20 Max





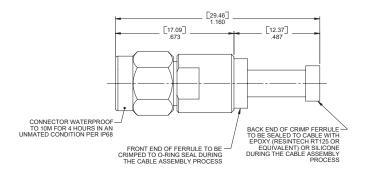


# SMA Crimp Plug, RG174/RG316/LMR100

Part Number	Material	Impedance	Maximum Frequency	VSWR
142-0403-051	Stainless Steel Passivated	50 Ohms	DC - 26.5 GHz	1.20 Max











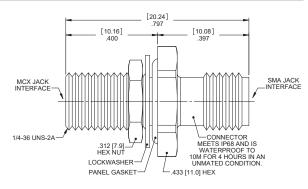
# Adapters

### SMA Jack to MCX Bulkhead Adapter with Hex Nut

Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
134-1001-401	Brass, Nickel Plated	50 Ohms	DC - 6 GHz	1,000 VRMS





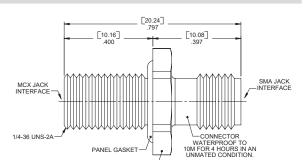


### SMA Jack to MCX Bulkhead Adapter without Hex Nut

Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
134-1001-411	Brass, Nickel Plated	50 Ohms	DC - 6 GHz	1,000 VRMS







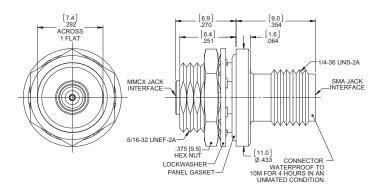
# SMA Jack to MMCX Jack Bulkhead Adapter

Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
134-1001-421	Brass, Nickel Plated	50 Ohms	DC - 6 GHz	1,000 VRMS







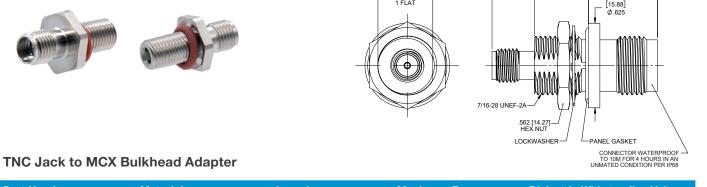




# **TNC Jack to SMA Jack Bulkhead Adapter**

Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
134-1001-461	Stainless Steel Passivated	50 Ohms	DC - 6 GHz	1,000 VRMS
			[10.29] - A05 - ACROSS 1 FLAT	[31.04] 1,222 [10.16] [15.88] 0,625

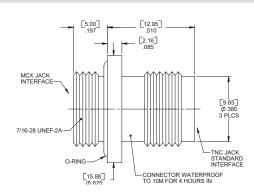




Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
134-1001-441	Brass, Nickel Plated	50 Ohms	DC - 6 GHz	1,000 VRMS





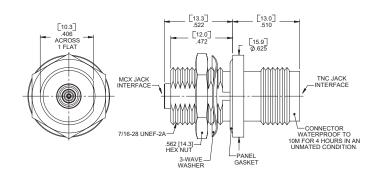


### TNC Jack to MCX Bulkhead Adapter with Hex Nut

Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
134-1001-451	Brass, Nickel Plated	50 Ohms	DC - 6 GHz	1,000 VRMS









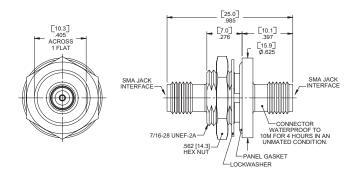


# SMA Jack to SMA Jack Bulkhead Adapter

Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
142-091-431	Brass, Nickel Plated	50 Ohms	DC - 6 GHz	1,000 VRMS







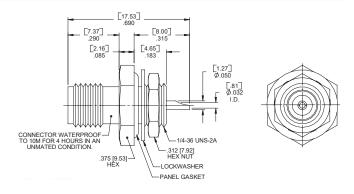
# Contacts

# SMA Bulkhead Jack, Solder Pot Contact

Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
142-1701-401	Brass, Nickel Plated	50 Ohms	DC - 6 GHz	1,000 VRMS







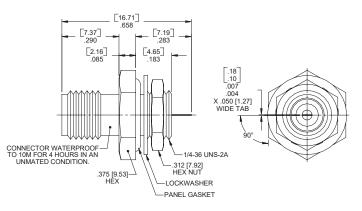
### SMA Bulkhead Jack, Tab Contact

Part Number	Material	Impedance	Maximum Frequency	Dielectric Withstanding Voltage
142-1701-411	Brass. Nickel Plated	50 Ohms	DC - 6 GHz	1.000 VRMS









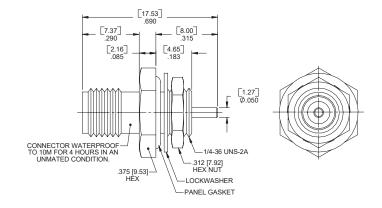


# **SMA Bulkhead Jack, Post Contact**

Part Number	Material	Impedance	Maximum Frequency	VSWR
142-1701-421	Stainless Steel Passivated	50 Ohms	DC - 26.5 GHz	1.20 Max









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