



# HUBER+SUHNER - Excellence in Connectivity Solutions

HUBER+SUHNER is a leading global supplier of components and systems for electrical and optical connectivity in communications, industrial and transportation markets. HUBER+SUHNER can draw on core competences in the

areas of high frequency technology, fibre optics, cables and polymers. Working in close collaboration with our customers around the globe, we strive for excellence in the development and manufacturing of high quality products.



HUBER+SUHNER is certified according to ISO 9001 and ISO 14001.

**WAIVER**

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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## QMA WATERPROOF RF CONNECTOR



HUBER+SUHNER

Excellence in Connectivity Solutions

# Wet environment. Humid climate. We have the compact, flexible solution.



HUBER+SUHNER have launched a world first – A watertight version of their tried and trusted QMA connector. Its newly developed interface is designed to satisfy our customers' extended needs.

QMA radio frequency connectors are equipped with a Quick-Lock coupling mechanism that allows fast, reliable and easy connections to be made in very tight spaces.

#### Main advantages

- waterproof IP68
- can be mated with QLF certified QMA connectors
- same outside dimensions as standard QMA connectors
- vibration-resistant as SMA to MIL standard
- better temperature resistance than standard QMA connector
- connector allows 360° rotation, making for easy cable routing without interrupting the connection
- 10 times faster mating than SMA
- higher packing density than SMA



#### Fields of application

The new QMA has been designed with users in mind who need fast and space-saving connections in outdoor applications such as

- wireless communications and transmission systems
- assemblies for mobile radio base stations

The watertight QMA product line currently includes straight and angular connectors for flexible and semi-rigid cables as well as terminations. The currently available basic range of products is being continuously extended.

#### Specifications

##### Electrical

Impedance	50 Ω
Interface frequency range	DC - 18 GHz
Return loss	- 32 dB min. 0 - 3 GHz; - 25 dB min. 3 - 6 GHz
RF leakage	- 80 dB min. 0 - 3 GHz; - 70 dB min. 3 - 6 GHz
Dielectric withstanding voltage	1000 V rms 50 Hz at sea level
Working voltage	335 V rms 50 Hz at sea level

##### Mechanical

Durability	100 cycles min.
Interface retention force	60 N
Engagement/disengagement force	25 N/20 N typical
Centerline pitch	12.4 mm min.

##### Environmental

Operating temperature	- 40 °C to + 105 °C
Ingress protection	IP 68 IEC 60529, mated condition
Climatic category	IEC 55/155/21
Moisture resistance	MIL-STD-202, method 106 F
Thermal shock	MIL-STD-202, method 107, condition B
Vibration	MIL-STD-202, method 204, condition D
Shock	MIL-STD-202, method 213, condition I
Corrosion	MIL-STD-202, method 101, condition D
2002/95/EC (RoHS)	compliant

For more information, visit: [www.hubersuhner.com](http://www.hubersuhner.com) and [www.qlf.info](http://www.qlf.info)