



SERIES QLA 00 SUBMINIATURE COAXIAL CONNECTORS

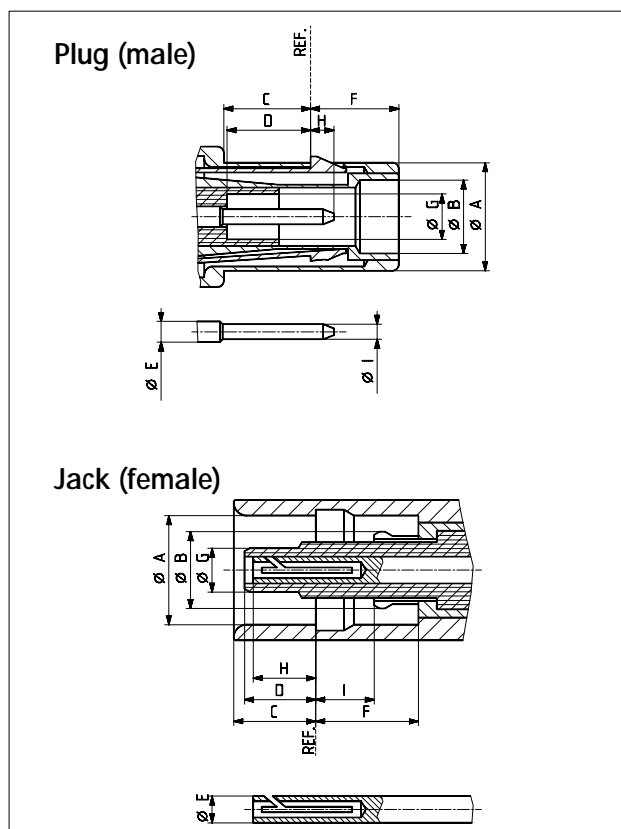
Description

The QLA 00 series contains connectors with a quick latch coupling mechanism: connection is achieved by simply pushing the plug into the jack. 3 latching springs automatically engage, thereby securing the mated connectors against axial and rotational forces. No twisting action is required. The connectors are easily released by slightly pulling back the outer sleeve of the plug. This coupling mechanism provides a fast and reliable connection for applications up to 1.4 GHz.

Compatibility

All connectors of the series QLA 00 are without any restrictions intermateable with Lemo series 00.250.

Interface Dimensions



Interface Dimensions in mm / inches

	Plug		Jack	
	min.	max.	min.	max.
A	4.96/.195	5.03/.198	5.05/.199	5.11/.201
B	3.38/.133	3.44/.135	3.50/.138*	3.55/.140*
C	3.93/.155	4.08/.161	3.73/.147	3.86/.152
D	3.55/.140	---	---	3.48/.137
E	0.95/.037 nom.		1.24/.049 nom.	
F	4.00/.157	4.16/.164	4.23/.167	4.88/.192
G	2.10/0.83	2.16/.085	1.95/.077	2.03/.080
H	---	1.32/.052	---	3.30/.130
I	0.69/.027	0.72/.028	2.35/.093	2.90/.114

* prior to slotting

Interface dimensions conformable to the Standards:

NIM-CAMAC-Standard CD/N549

Technical Data

ELECTRICAL DATA	REQUIREMENTS
Impedance	50 Ω
Frequency range	DC ... 1.4 GHz
VSWR (typical value) (for mated connector pair 11 QLA - 21 QLA)	1.15 up to 300 MHz 1.20 up to 1.4 GHz
RF-leakage (measured at 500 MHz)	≥ 80 dB
Dielectric withstanding voltage (at sea level)	1.5 kV, 50 Hz
Working voltage (at sea level) - unmated - mated	≤ 300 V rms, 50 Hz ≤ 500 V rms, 50 Hz
Insulation resistance	$\geq 10^6$ M Ω
Contact resistance - centre contact - outer contact	≤ 4 m Ω ≤ 2 m Ω

MECHANICAL DATA	REQUIREMENTS
Engagement force	typ. 2 N / .45 lbs
Disengagement force	typ. 5 N / 1.1 lbs
Contact captivation	≥ 20 N / 4.5 lbs
Durability (matings)	$\geq 10\ 000$

ENVIRONMENTAL DATA	TEST CONDITIONS
Temperature range	- 55°C ... + 150°C / - 67°F ... + 302°F
Thermal shock	MIL-STD-202, Method 107, Condition B
Moisture resistance	MIL-STD-202, Method 106
Corrosion	Saltspray test acc. to MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I

MATERIAL DATA

CONNECTOR PART	STANDARDS	MATERIAL	PLATING
Bodies Pin contact	QQ-B-626	brass, annealed	nickel gold
Socket contact	QQ-C-530	beryllium-copper	gold, SUCOPLATE®
Resilient parts	DIN 17660	spring bronze	SUCOPLATE®
Crimp ferrules	SUHNER® specification	copper	SUCOPLATE®
Insulators		PTFE or PFA	
Gaskets		silicone rubber	

Some connectors may have a specification that differs from the above mentioned data.