



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to 153QS000-000, DCA-00067913

Documents

Assembly instruction 51 P15
Panel piercing N/A

Material and plating

Connector parts	Material	Plating
Center contact	Brass	AuroDur®, gold plated
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Contact spring	Beryllium copper	AuroDur®, gold plated
Dielectric	PTFE	
Gasket	Silicone	
Crimping ferrule	Copper	Flash white bronze over silver(e.g. Optargen®)

QN

STRAIGHT PLUG

153QS108-106N5

Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 32 dB, DC to 1 GHz ≥ 27 dB, 1 to 6 GHz
Insertion loss	≤ 0.05 dB x √ f [GHz]
Insulation resistance	≥ 5 x10 ³ MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1.5 mΩ
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	1000 V rms
RF-leakage	≤ -90 dB, 100 MHz to 3 GHz
Power handling (at 20 °C, sea level, VSWR 1.0)	300 W @2.5 GHz (typ.)

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 100
Center contact captivation: axial	≥ 28 N
Engagement force	30 N (typ.)
Disengagement force	30 N (typ.)

Environmental data

Temperature range	-40°C to +125°C
Thermal shock	MIL-STD-202, Meth. 107 D, Cond. B
Corrosion	MIL-STD-202, Meth. 101 D, Cond. B
Vibration	MIL-STD-202, Meth. 204 D, Cond. A
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106 F
Degree of protection (mated pair)	IEC 60529, IP68 0.3 bar (interface only)
RoHS	compliant

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-208

Suitable cables

RG 58 C/U, RG 141 /U

Weight

Weight	18 g/pce
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While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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