



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

**Interface**

According to 153QS000-000, DCA-00067913

**Documents**

Assembly instruction 53 T8

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Contact spring
- Body
- Dielectric
- Unlocking sleeve

**Material**

- Brass
- Brass
- Beryllium copper
- Brass
- PTFE
- Brass

**Plating**

- AuroDur®, gold plated
- Flash white bronze over silver(e.g. Optargen®)
- AuroDur®, gold plated
- Silver, 3-6  $\mu\text{m}$
- White bronze(e.g. Optalloy®)

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 11 GHz
Return loss	$\geq 32$ dB, DC to 2.5 GHz $\geq 28$ dB, 2.5 to 4 GHz $\geq 25$ dB, 4 to 6 GHz
Insertion loss	$\leq 0.05$ dB x $\sqrt{f}$ [GHz]
Insulation resistance	$\geq 5 \times 10^3$ M $\Omega$
Center contact resistance	$\leq 1.5$ m $\Omega$
Outer contact resistance	$\leq 1.5$ m $\Omega$
Test voltage	2500 V rms
Working voltage	1000 V rms
RF-leakage	$\leq -90$ dB @ 3 GHz
Intermodulation (3 <sup>rd</sup> order)	$\leq -112$ dBm @ 2 x 20 W

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	min. 100
Center contact captivation: axial	$\geq 28$ N
radial	$\geq 1$ Ncm
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
Degree of protection (mated pair)	IEC 60529, IP68 0.3 bar (interface only)
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

UT 141 ; RG 402

**Weight**

Weight 23 g/pce

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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