



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

Interface

According to IEC 60169-17, MIL-PRF-39012, DIN EN 122200

Documents

Assembly instruction 51 M

Material and plating

Connector parts

	Material	Plating
Center contact	Brass	AuroDur®, gold plated
Outer contact	Brass	White bronze(e.g. Optalloy®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Gasket	NeopreneCR 50C6	
Crimping ferrule	Copper	Flash white bronze over silver(e.g. Optargen®)

TNC 50 Ω Right Angle Plug

56S209-308N5

Electrical data

Impedance 50 Ω
 Frequency DC to 10 GHz
 Return loss ≥ 30 dB, DC to 2 GHz
 ≥ 20 dB, 2 to 4 GHz
 Insertion loss ≤ 0.05 dB, DC to 4 GHz
 Insulation resistance ≥ 5 x10³ MΩ
 Center contact resistance ≤ 1.5 mΩ
 Outer contact resistance ≤ 1 mΩ
 Test voltage 1500 V rms
 Working voltage 500 V rms
 Power handling (at 20 °C, sea level, VSWR 1.0) ≤ 80 W @ 2 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles min. 500
 Center contact captivation: axial ≥ 15 N
 Coupling test torque max. 1.7 Nm
 Recommended torque 0.46 Nm to 0.69 Nm

Environmental data

Temperature range -65°C to +165°C
 Thermal shock MIL-STD-202, Meth. 107, Cond. B
 Corrosion MIL-STD-202, Meth. 101, Cond. B
 Vibration MIL-STD-202, Meth. 204, Cond. B
 Shock MIL-STD-202, Meth. 213, Cond. G
 Moisture resistance MIL-STD-202, Meth. 106
 RoHS compliant

Tooling

Crimping tool 11W150-000
 Crimp insert 11W150-108

Suitable cables

RG 142 B/U, RG 223 /U, RG 400 /U

Weight

Weight 23.3 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Rong Fang	22.06.05	Chr. Janßen	02.02.21	f00	20-1927	S. Huber-Siegl	02.02.21

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