



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

Interface

According to IEC 60169-4, VG 95250, EN 122190, DIN 47223

Documents

Assembly instruction 53 04
Panel piercing B 46

Material and plating

Connector parts

Center contact Spring bronze
Outer contact Brass
Body Brass
Dielectric PTFE
Crimping ferrule Copper

Plating

Silver, 3-6 µm
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)

7/16

PANEL JACK

60K431-815N1

Electrical data

Impedance	50 Ω
Frequency	DC to 7.5 GHz
Return loss	≥ 32 dB, DC to 2.5 GHz ≥ 29 dB, 2.5 to 3 GHz ≥ 23 dB, 3 to 5 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	$\geq 10^4$ M Ω
Center contact resistance	≤ 0.4 m Ω
Outer contact resistance	≤ 1.5 m Ω
Working voltage (at sea level)	500 V rms, 50 Hz
Power handling (at 20 °C, sea level, VSWR 1.0)	1800 W @ 1 GHz 800 W @ 4 GHz
RF-leakage	≥ 128 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Center contact captivation: axial	≥ 200 N
radial	≥ 2 Ncm
Coupling torque (recommended)	25 to 30 Nm
Proof torque	max. 35 Nm

Environmental data

Temperature range	-45°C to +85°C
Rapid change of temperature	DIN EN 122190, clause 4.6.7
Corrosion salt mist	DIN EN 122190, clause 4.6.10
Vibration	DIN EN 122190, clause 4.6.3
Damp heat	DIN EN 122190, clause 4.6.6
Climatic tests	DIN EN 122190, clause 4.6.5 (45/85/56)
RoHS	compliant

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-215

Suitable cables

RG 213 /U

Weight

Weight 105.6 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
Rong Fang	10/01/05	J_Gramsamer	07.04.15	g00	15-0397	J_Krautenb.	07.04.15
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 email: info@rosenberger.de		Page 2 / 2