



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

Interface

According to IEC 61169-32
Mechanically compatible with RPC-2.40

Documents

Assembly instruction 02 A3

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric
Solder sleeve

Material

CuBe
Stainless steel
Stainless steel
PEEK
Brass

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Passivated
Gold, 0.1 µm min.

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RF_35/09.14/6.2

RPC-1.85

Straight plug

08S121-271S3

Electrical data

Impedance	50 Ω
Frequency	DC to 65 GHz
Return loss	≥ 20 dB, DC to 65 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	500 V rms
Working voltage (at sea level)	150 V rms
RF-leakage	≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 20 N
Coupling test torque	1.65 Nm
Recommended torque	0.80 Nm to 1.10 Nm

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant

Tooling

N/A

Suitable cables

UT 085 / RTK-FS 085 / RTK-Flex 405

Weight

11.4 g/pce

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Babinger	25.08.04	F. Reiner	17.10.18	b02	18-0004	M. Knoll	17.10.18

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